

SHILLONG COLLEGE

Shillong-793001, Meghalaya



Project on

"SALVATION ARMY SONG BOOK"

***Submitted for the partial fulfillment for the award of the degree of
Bachelor of Computer Applications***

By

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Roll No: P1300111

Regn No: 13160 of 2011-12

Department of Computer Science and Applications

Shillong College, Shillong-793001



NORTH EASTERN HILL UNIVERSITY

Certified that this is a bona fide of the project

Entitled

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Viva voce held on.....

Department of Computer Science and Applications

Shillong College, Shillong-793001

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INTRODUCTION

As the world goes developing having a songslyric apps will be quite handy. There may be a situation where we cannot bring or forget the Hard Copy of our songs book, especially for those missionary. So, this Songs Book, apps can be very useful in the Church as well as beyond the Church.

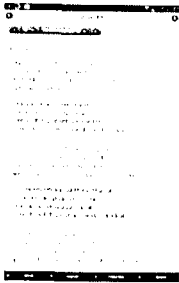
The Salvation Army is a Christian church and international charitable organization structured in a quasi-military fashion. The organization reports a whole worldwide membership of over 1.5 million. It was founded by William Booth in 1865.

'The Salvation Army Song Book Apps' is completely written in Android Studio with the basic functions to get the highest performance possible. It has the *functionality of searching by filtering the list content*. It also has the *functionality of selecting the lyric, copy and paste it to wherever we want it*. When the user interact with the apps all the history are recorded in the history folder. It also has the *functionality of bookmark*.

ANALYSIS PHASE

Existing system:-

1. MALAYALAM CHRISTIAN SONGS BOOK



2. English Christian Song Book



3. Kristian Hla Bu



Proposed System:-

1. Less API starting from Android 4.0 Ice Cream Sandwich.
2. Favourites List for quick access.
3. Lyric will be written in Mizo.

4. List Search Filter On Typing Song Title.
5. Alphabetical List.
6. List for history.
7. Share By Copying Lyric.

System Requirements:-

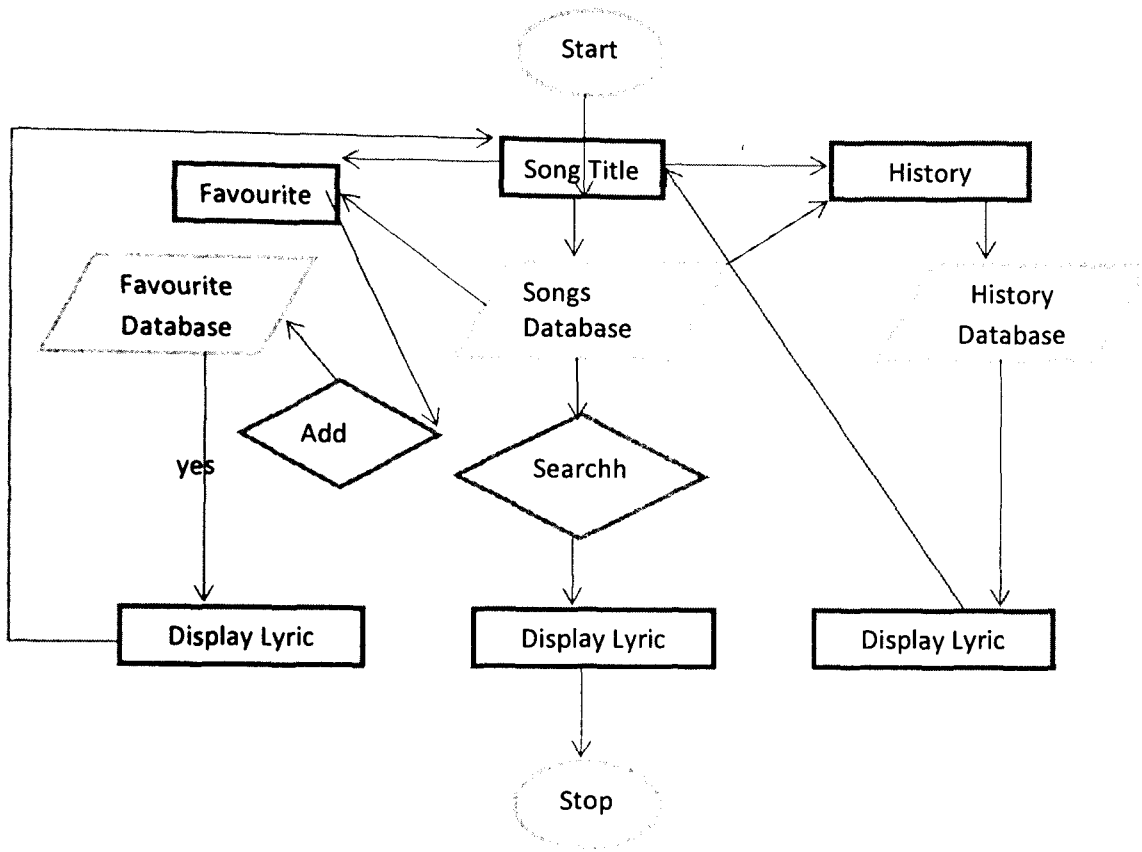
Hardware Requirements:-

1. 512Mb RAM.
2. Ghz of Processor.
3. 1GB Flash drive.

Software Requirements:-

1. OS – Android 4.0 Ice Cream Sandwich or Above.
2. Language – Java (Android)

DESIGN PHASE

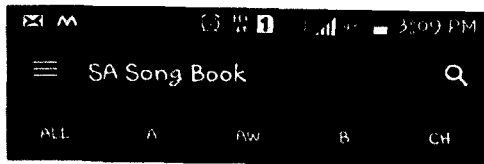


DATABASE

SONGS DATABASE

NAME	DATA TYPE	KEY	DESCRIPTION
Songs No	Integer	Primary	Songs Number
Songs Title	Char		List of Songs Title
Lyric	Char		Content Lyric

SAMPLE LAYOUT



A Chanchin Hril Chu Ka Duh
A Chatuan Roluah Tumin I Bef Zel Ang.
A Hmangaihnaa Ka Chawhlin.
A Hmangaihna Fakin I Zai Ang.
A Lalna Chatuanin A Zual Zel.
A Lalna Ram Chu Rawn Pelin,
A Lawm Awm Kei Ni Naupang Tan.
A Lo Kalin A Lo Kalin,
A lo Thang Chhandamtu Pfanthu.
A Lungngaihna Hmun I Lo Thlir Ang.
A Mak Mange Van Lalber Chuan.

Fig 1: List of Lyric



A Chatuan Roluah Tumin I Bef Zel Ang.

1. A chatuan roluah tumin i bef zel ang,
Lungngaihna alo lentai hian;
Ka kiangah awm zel ang che aw,
Ka chatuan duh tak,

Aw, himna ram i pan ang u,
Chawh hlenna tur;
Aw, ka ngai e thente zawng
Kumna tur ram khi,

2. Lei mawina tin reng pawh hi ala ral nag,
A chuau lo vang chatuan lalna chu;
An hril zel ang thangthar thlengin,
A ram a kin lovang,

3. Mita hmuh loh ram nuam ka tan a buatsaih,
I pan zel ang aw le chu ram chu;
Aw, chu hmun ngei chu maw lo ni,
Kan chautan in tur chu,

4. Lei himna ral leh mai thin hmuna chengte,
Then tawhlohna ram min siamsak avangin;
Halleluia chhandamtu chu,
Fakin awm zel rawh se.

fig 2 : Content of lyric



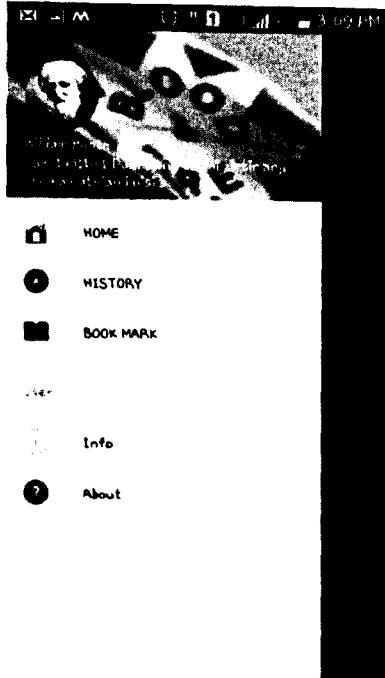


Fig 2 Drawer Layout



A Chanchin Hril Chu Ka Duh



Fig 2: Search filter text

SOURCE CODE

Abdroid Manifest.XML

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="com.ralte9gmail.sasongbook">

<application
android:allowBackup="true"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"
android:supportsRtl="true"
android:theme="@style/AppTheme">
<activity
android:name=".MainActivity"
android:label="@string/app_name"
android:theme="@style/AppTheme.NoActionBar">
<intent-filter>
<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
</activity>
<activity android:name=".ACTIVITY.DisplaySong"
android:label="@string/display_activity"/>
<activity android:name=".ACTIVITY.History"
android:label="@string/display_history"/>
<activity android:name=".ACTIVITY.DisplayHistory"
android:label="@string/display_activity"/>
<activity android:name=".ACTIVITY.TestA"
android:label="@string/display_fav"/>
<activity android:name=".ACTIVITY.FavDisplay"
android:label="@string/display_activity"></activity>
</application>

</manifest>
```

• package com.ralte9gmail.sasongbook.ACTIVITY;

ACTIVITY:

-DisplayHistory.java

```
package com.ralte9gmail.sasongbook.ACTIVITY;

import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.TextView;
import com.ralte9gmail.sasongbook.CONTENT.SongConstant;
import com.ralte9gmail.sasongbook.DATABASE.HistoryDataBase;
import com.ralte9gmail.sasongbook.R;

public class DisplayHistory extends AppCompatActivity {
    TextView SongTitle, Lyric;
    private int position;
    Cursor cursor;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_display_history);

        SongTitle = (TextView) findViewById(R.id.text_view_song_title);
        Lyric = (TextView) findViewById(R.id.text_view_lyric);

        position = 0;
        Intent intent = getIntent();
        position = intent.getIntExtra("position", 0);

        HistoryDataBase historyDataBase = new HistoryDataBase(this);
        cursor = historyDataBase.getHistorySongListById(position);
        SongTitle.setText(cursor.getString(cursor.getColumnIndex(SongConstant.SONG_TITLE)));
        Lyric.setText(cursor.getString(cursor.getColumnIndex(SongConstant.LYRIC)));
    }
}
```

activity_display_history.xml

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true">
    <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
        xmlns:tools="http://schemas.android.com/tools"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:paddingBottom="@dimen/activity_vertical_margin"
        android:paddingLeft="@dimen/activity_horizontal_margin"
        android:paddingRight="@dimen/activity_horizontal_margin"
        android:paddingTop="@dimen/activity_vertical_margin"
        tools:context="com.ralte9gmail.sasongbook.ACTIVITY.DisplayHistory">
        <TextView
```

```

android:id="@+id/text_view_song_title"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:paddingLeft="6dip"
android:paddingTop="6dip"
android:paddingBottom="6dip"
android:textSize="16sp"
android:text="test"
android:editable="false"
android:textColor="#000000"
android:textIsSelectable="true"
android:textStyle="normal"
android:typeface="normal" />

<TextView
android:id="@+id/text_view_lyric"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:paddingLeft="6dip"
android:paddingTop="6dip"
android:textSize="14sp"
android:textStyle="normal"
android:text="text"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_below="@+id/text_view_song_title"
android:textIsSelectable="true"
android:textColor="#000000" />
</RelativeLayout>
</ScrollView>

```

DisplaySong.java

```

package com.ralte9gmail.sasongbook.ACTIVITY;

import android.content.Intent;
import android.database.Cursor;
import android.graphics.Matrix;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.Menu;
import android.view.MenuItem;
import android.view.MotionEvent;
import android.view.ScaleGestureDetector;
import android.view.View;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
import com.ralte9gmail.sasongbook.CONTENT.SongConstant;
import com.ralte9gmail.sasongbook.CONTENT.SongConstantFav;
import com.ralte9gmail.sasongbook.CONTENT.SongConstantHistory;
import com.ralte9gmail.sasongbook.DATABASE.FavDatabase;
import com.ralte9gmail.sasongbook.DATABASE.HistoryDataBase;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class DisplaySong extends AppCompatActivity implements View.OnTouchListener{

```

```

private int position;

private float oldDistance = 0f, textSize = 12f;
private ScaleGestureDetector scaleGestureDetector;
private Matrix matrix = new Matrix();

private final static String TAG = "DisplaySong";
TextView SongTitle, Lyric;
// Animation, Animation.Animation
SongConstantHistory songConstantHistory;
HistoryDataBase historyDataBase;
Cursor cursor;
String NewSongTitle;
String NewLyric;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_display_song);

    SongTitle = (TextView) findViewById(R.id.text_view_song_title);
    Lyric = (TextView) findViewById(R.id.text_view_lyric);

    RelativeLayout relativeLayout = (RelativeLayout) findViewById(R.id.relative);
    relativeLayout.setOnTouchListener(this);

    position = 0;
    Intent intent = getIntent();
    position = intent.getIntExtra("position", 0);

    SongDbHelper songDbHelper = new SongDbHelper(this);
    cursor = songDbHelper.getSongListById(position);
    // Toast.makeText(this, "Cursor: " + cursor, Toast.LENGTH_LONG).show();

    SongTitle.setText(cursor.getString(cursor.getColumnIndex(SongConstant.SONG_TITLE)));
    Lyric.setText(cursor.getString(cursor.getColumnIndex(SongConstant.LYRIC)));

    NewSongTitle = SongTitle.getText().toString();
    NewLyric = Lyric.getText().toString();

    songConstantHistory = new SongConstantHistory();
    historyDataBase = new HistoryDataBase(this);
    songConstantHistory.song_title = NewSongTitle;
    songConstantHistory.lyric = NewLyric;
    historyDataBase.insertHistory(songConstantHistory);
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.menu_display, menu);
    // MenuItem item;

    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {

```

```

case R.id.like:
if (item.isChecked()) {
    item.setChecked(false);
    Toast.makeText(this, "If 1", Toast.LENGTH_SHORT).show();
} else {
    item.setChecked(true);

    SongConstantFav songConstantFav = new SongConstantFav();
    FavDatabase favDatabase = new FavDatabase(DisplaySong.this);

    songConstantFav.lyric = NewLyric;
    songConstantFav.song_title = NewSongTitle;
    favDatabase.InsertFav(songConstantFav);
    Toast.makeText(DisplaySong.this, "Successfully Added", Toast.LENGTH_LONG).show();

    // Toast.makeText(this, "If 2", Toast.LENGTH_SHORT).show();
} return true;
default:
return super.onOptionsItemSelected(item);
}

}

@Override
public boolean onTouch(View v, MotionEvent event) {

if ((event.getAction() & MotionEvent.ACTION_MASK) == MotionEvent.ACTION_MOVE) {

if (event.getPointerCount() == 2) {
    // Two fingers on screen

    float x = event.getX(0) - event.getX(1);
    float y = event.getY(0) - event.getY(1);
    float newDistance = (float) Math.sqrt(x * x + y * y);

    if (newDistance > oldDistance) {
        textSize++;
        SongTitle.setText((int) textSize);
        Lyric.setText((int) textSize);
        oldDistance = newDistance;
    } else if (newDistance < oldDistance) {
        textSize--;
        SongTitle.setText((int) textSize);
        Lyric.setText((int) textSize);
        oldDistance = newDistance;
    }

    }

}

return true;
}
}

```

activity_display_song.xml

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:fillViewport="true">
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:id="@+id/relative"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
tools:context="com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong">
<TextView
android:id="@+id/text_view_song_title"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:paddingLeft="6dip"
android:paddingTop="6dip"
android:paddingBottom="6dip"
android:textSize="16sp"
android:text="test"
android:editable="false"
android:textColor="#000000"
android:textIsSelectable="true"
android:textStyle="normal|bold|italic"
android:typeface="normal" />
<TextView
android:id="@+id/text_view_lyric"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:paddingLeft="6dip"
android:paddingTop="6dip"
android:textSize="14sp"
android:textStyle="normal"
android:text="text"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_below="@+id/text_view_song_title"
android:textIsSelectable="true"
android:textColor="#000000" />
</RelativeLayout>
</ScrollView>

```

FavDisplay.java

```

package com.ralte9gmail.sasongbook.ACTIVITY;

import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.widget.TextView;

```



```

import com.ralte9gmail.sasongbook.CONTENT.SongConstant;
import com.ralte9gmail.sasongbook.DATABASE.FavDatabase;
import com.ralte9gmail.sasongbook.R;

public class FavDisplay extends AppCompatActivity {

    TextView SongTitle, Lyric;
    private int position;
    Cursor cursor;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_fav_display);

        SongTitle = (TextView) findViewById(R.id.text_view_song_title);
        Lyric = (TextView) findViewById(R.id.text_view_lyric);

        position = 0;
        Intent intent = getIntent();
        position = intent.getIntExtra("position", 0);

        FavDatabase favDatabase = new FavDatabase(this);
        cursor = favDatabase.GetFavSongListById(position);

        SongTitle.setText(cursor.getString(cursor.getColumnIndex(SongConstant.SONG_TITLE)));
        Lyric.setText(cursor.getString(cursor.getColumnIndex(SongConstant.LYRIC)));
    }
}

```

activity_fav_dissplay.xml

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true">
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.ralte9gmail.sasongbook.ACTIVITY.FavDisplay">

<TextView
    android:id="@+id/text_view_song_title"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:paddingLeft="6dip"
    android:paddingTop="6dip"
    android:paddingBottom="6dip"
    android:textSize="16sp"
    android:text="test"
    android:editable="false"
    android:textColor="#000000"
    android:textIsSelectable="true"
    android:textStyle="normal"
    android:typeface="normal" />

```

```

<TextView
    android:id="@+id/text_view_lyric"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:paddingLeft="6dip"
    android:paddingTop="6dip"
    android:textSize="14sp"
    android:textStyle="normal"
    android:text="text"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:layout_below="@+id/text_view_song_title"
    android:textIsSelectable="true"
    android:textColor="#000000" />

</RelativeLayout>
</ScrollView>

```

History.java

```

package com.ralte9gmail.sasongbook.ACTIVITY;

import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ADAPTER.HistoryListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.HistoryDataBase;
import com.ralte9gmail.sasongbook.R;

public class History extends AppCompatActivity {
    Cursor cursor;
    HistoryListAdapter historyListAdapter;
    private ListView list;
    HistoryDataBase historyDataBase;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_history);

        historyDataBase = new HistoryDataBase(this);
        cursor = historyDataBase.GetHistorySongList();
        historyListAdapter = new HistoryListAdapter(History.this, cursor, 0);
        list = (ListView) findViewById(R.id.history_list_view_song_list1);
        list.setAdapter(historyListAdapter);

        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
                int newPosition = pos + 1;
                Intent intent = new Intent(getApplicationContext(), DisplayHistory.class);
            }
        });
    }
}

```

```

intent.putExtra("position", newPosition);
startActivity(intent);
}
    });
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.history_menu, menu);
    return true;
}
@Override
public boolean onOptionsItemSelected(MenuItem item) {

switch (item.getItemId()) {

case R.id.history:
    HistoryDataBase historyDataBase = new HistoryDataBase(this);
    historyDataBase.Delete();
    Toast.makeText(getApplicationContext(), "Database Clear", Toast.LENGTH_SHORT).show();
    default:
    return super.onOptionsItemSelected(item);
}

}
}

```

activity_history.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
tools:context="com.ralte9gmail.sasongbook.ACTIVITY.History">

<ListView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/history_list_view_song_list1"
>
</ListView>
</RelativeLayout>

```


Favourite.java

```

package com.ralte9gmail.sasongbook.ACTIVITY;

import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.Menu;

```



```
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ADAPTER.FavListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.FavDatabase;
import com.ralte9gmail.sasongbook.R;

public class Favoutite extends AppCompatActivity {

    Cursor cursor;
    FavListAdapter favListAdapter;
    private ListView list;
    FavDatabase favDatabase;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_test);

        favDatabase = new FavDatabase(this);
        cursor = favDatabase.GetFavSongList();
        favListAdapter = new FavListAdapter(Favoutite.this, cursor, 0);
        list = (ListView) findViewById(R.id.history_list_view_song_list2);
        list.setAdapter(favListAdapter);

        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
                int newPosition = pos + 1;
                Intent intent = new Intent(getApplicationContext(), DisplayHistory.class);
                intent.putExtra("position", newPosition);
                startActivity(intent);
            }
        });
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.del_fav, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {

        switch (item.getItemId()) {

            case R.id.del_favi:
                FavDatabase favDatabase = new FavDatabase(this);
                favDatabase.DeleteFav();
                Toast.makeText(getApplicationContext(), "Database Clear", Toast.LENGTH_SHORT).show();
            default:
                return super.onOptionsItemSelected(item);
        }
    }
}
```

activity_test.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".ACTIVITY.Favoutite">

    <ListView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/history_list_view_song_list2"
    >
    </ListView>

</RelativeLayout>
```

ADAPTER:

CustomListAdapter.java

```
package com.ralte9gmail.sasongbook.ADAPTER;

import android.content.Context;
import android.database.Cursor;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.CursorAdapter;
import android.widget.TextView;

import com.ralte9gmail.sasongbook.CONTENT.SongConstant;
import com.ralte9gmail.sasongbook.R;

 * Created by Siana on 3/23/2016.

public class CustomListAdapter extends CursorAdapter{

     TextView TxtSongId, TxtSongTitle;
    private LayoutInflater layoutInflater;

    public CustomListAdapter(Context context, Cursor c, int flags) {
        super(context, c, flags);
        layoutInflater = (LayoutInflater)
            context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    }

    @Override
    public View newView(Context context, Cursor cursor, ViewGroup parent) {
        View view = layoutInflater.inflate(R.layout.list_view_content, parent, false);
        ViewHolder viewHolder = new ViewHolder();
        viewHolder.TxtSongId = (TextView) view.findViewById(R.id.song_id);
    }
}
```

```

viewHolder.TxtSongTitle = (TextView) view.findViewById(R.id.song_title);
view.setTag(viewHolder);

return view;
}

@Override
public void bindView(View view, Context context, Cursor cursor) {
    ViewHolder viewHolder = (ViewHolder) view.getTag();
    viewHolder.TxtSongId.setText(cursor.getString(cursor.getColumnIndex(SongConstant.SONG_ID)));
    viewHolder.TxtSongTitle.setText(cursor.getString(cursor.getColumnIndex(SongConstant.SONG_TITLE)));
}

static class ViewHolder{
    TextView TxtSongId;
    TextView TxtSongTitle;
}
}

```

FavListAdapter.java

```

package com.ralte9gmail.sasongbook.ADAPTER;

import android.content.Context;
import android.database.Cursor;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.CursorAdapter;
import android.widget.TextView;

import com.ralte9gmail.sasongbook.CONTENT.SongConstantFav;
import com.ralte9gmail.sasongbook.CONTENT.SongConstantHistory;
import com.ralte9gmail.sasongbook.R;

..
Created By: Stama on 12/30/2016.

public class FavListAdapter extends CursorAdapter {

    private LayoutInflater inflater;

    public FavListAdapter(Context context, Cursor c, int flags) {
        super(context, c, flags);
        inflater = (LayoutInflater)
            context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    }

    @Override
    public View newView(Context context, Cursor cursor, ViewGroup parent) {
        View view =
            inflater.inflate(R.layout.list_view_content_fav, parent, false);
        ViewHolder viewHolder = new ViewHolder();
        viewHolder.TxtSongId = (TextView) view.findViewById(R.id.song_id);
        viewHolder.TxtSongTitle = (TextView) view.findViewById(R.id.song_title);
        view.setTag(viewHolder);

        return view;
    }
}

```

```

)

@Override
public void bindView(View view, Context context, Cursor cursor) {
    ViewHolder viewHolder = (ViewHolder) view.getTag();
    viewHolder.TxtSongId.setText(cursor.getString(cursor.getColumnIndex(SongConstantFav.SONG_ID)));
    viewHolder.TxtSongTitle.setText(cursor.getString(cursor.getColumnIndex(SongConstantFav.SONG_TITLE)));
}

static class ViewHolder{
    TextView TxtSongId;
    TextView TxtSongTitle;
}
}

```

HistoryListAdapter.java

```

package com.ralte9gmail.sasongbook.ADAPTER;

import android.content.Context;
import android.database.Cursor;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.CursorAdapter;
import android.widget.TextView;

import com.ralte9gmail.sasongbook.CONTENT.SongConstantHistory;
import com.ralte9gmail.sasongbook.R;

..
Created by Sumit on 3/26/2016.

public class HistoryListAdapter extends CursorAdapter {
    private TextView TxtSongId, TxtSongTitle;
    private LayoutInflater layoutInflater;

    public HistoryListAdapter(Context context, Cursor c, int flags) {
        super(context, c, flags);
        layoutInflater = (LayoutInflater)
            context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
    }

    @Override
    public View newView(Context context, Cursor cursor, ViewGroup parent) {
        View view = layoutInflater.inflate(R.layout.list_view_content2, parent, false);
        ViewHolder viewHolder = new ViewHolder();
        viewHolder.TxtSongId = (TextView) view.findViewById(R.id.song_id);
        viewHolder.TxtSongTitle = (TextView) view.findViewById(R.id.song_title);
        view.setTag(viewHolder);

        return view;
    }

    @Override
    public void bindView(View view, Context context, Cursor cursor) {
        ViewHolder viewHolder = (ViewHolder) view.getTag();
        viewHolder.TxtSongId.setText(cursor.getString(cursor.getColumnIndex(SongConstantHistor

```

```

y.SONG_ID));
viewHolder.TxtSongTitle.setText(cursor.getString(cursor.getColumnIndex(SongConstantHistory.SONG_TITLE)));
}
static class ViewHolder{
    TextView TxtSongId;
    TextView TxtSongTitle;
}
}

```

ViewPagerAdapter.java

```

package com.ralte9gmail.sasongbook.ADAPTER;

import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentStatePagerAdapter;

import java.util.ArrayList;
import java.util.List;

...
 * Created by Rishi on 3/21/2016.
...

public class ViewPagerAdapter extends FragmentStatePagerAdapter {

    private final List<Fragment>mFragmentList = new ArrayList<>();
    private final List<String>mFragmentTitleList = new ArrayList<>();

    public ViewPagerAdapter(FragmentManager fm) {
        super(fm);
    }

    @Override
    public Fragment getItem(int position) {
        return mFragmentList.get(position);
    }

    @Override
    public int getCount() {
        return mFragmentList.size();
    }

    @Override
    public CharSequence getPageTitle(int position) {
        return mFragmentTitleList.get(position);
    }

    public void addFragment(Fragment fragment, String title) {
        mFragmentList.add(fragment);
        mFragmentTitleList.add(title);
    }
}

```

CONTENT:

SongConstant.java



```
packagecom.ralte9gmail.sasongbook.CONTENT;
```

```
...
```

```
Created by Slava on 3/23/2016.
```

```
public class SongConstant {  
public static final String TABLE = "H1aDB";  
  
Labels Table Columns names  
public static final String KEY_ROWID = "_id";  
  
public static final String SONG_ID = "song_id";  
public static final String SONG_TITLE = "song_title";  
public static final String LYRIC = "lyric";
```

```
Properties help us to keep data  
public int song_id;  
public String song_title;  
public String lyric;  
}
```

SongConstantFav.java

```
packagecom.ralte9gmail.sasongbook.CONTENT;
```

```
...
```

```
Created by Slava on 3/24/2016.
```

```
public class SongConstantFav {  
  
public static final String TABLE = "H1aDB3";  
  
Labels Table Columns names  
public static final String KEY_ROWID = "_id";  
  
public static final String SONG_ID = "song_id";  
public static final String SONG_TITLE = "song_title";  
public static final String LYRIC = "lyric";
```

```
Properties help us to keep data  
public int song_id;  
public String song_title;  
public String lyric;  
}
```

SongConstantHistory.java

```
packagecom.ralte9gmail.sasongbook.CONTENT;
```

```
...
```

```
Created by Slava on 3/26/2016.
```

```
public class SongConstantHistory {  
public static final String TABLE = "H1aDB2";  
  
Labels Table Columns names  
public static final String KEY_ROWID = "_id";  
  
public static final String SONG_ID = "song_id";  
public static final String SONG_TITLE = "song_title";
```

```
public static final String LYRIC = "lyric";
```

```
Property help us to keep data
```

```
public int song_id;  
public String song_title;  
public String lyric;  
}
```

DATABASE:

FavDatabase.java

```
package com.ralte9gmail.sasongbook.DATABASE;
```

```
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
  
import com.ralte9gmail.sasongbook.CONTENT.SongConstantFav;  
import com.ralte9gmail.sasongbook.CONTENT.SongConstantHistory;
```

```
..  
Created by: Rama on 2/20/2016.
```

```
public class FavDatabase extends SQLiteOpenHelper {
```

```
public static final int DATABASE_VERSION = 1;  
public static final String DATABASE_NAME =  
"data/com.ralte9gmail.sasongbook/databases/";  
private Context mContext;  
SQLiteDatabase sqLiteDatabase;  
Database Name  
public static final String DATABASE_NAME = "FAV_HLA.DB";
```

```
public FavDatabase(Context context) {  
super(context, DATABASE_NAME, null, DATABASE_VERSION);  
this.mContext = context;  
}
```

```
Override
```

```
public void onCreate(SQLiteDatabase sqLiteDatabase) {
```

```
String CREATE_TABLE = "CREATE TABLE " + SongConstantFav.TABLE + "("  
+ SongConstantFav.SONG_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, "  
+ SongConstantFav.SONG_TITLE + " TEXT, "  
+ SongConstantFav.LYRIC + " TEXT )";
```

```
sqLiteDatabase.execSQL(CREATE_TABLE);
```

```
}
```

```
Override
```

```
public void onUpgrade(SQLiteDatabase sqLiteDatabase, int oldVersion, int newVersion) {
```

```
sqLiteDatabase.execSQL("DROP TABLE IF EXISTS " + SongConstantHistory.TABLE);
```

```
Create table again  
onCreate(sqLiteDatabase);
```

```

}

public void DeleteFav(){
    SQLiteDatabase = this.getWritableDatabase();
    SQLiteDatabase.delete(SongConstantFav.TABLE, null, null);
    SQLiteDatabase.close();
}

public void InsertFav(SongConstantFav songConstantFav) {
    //Open connection to write data
    SQLiteDatabase = this.getWritableDatabase();
    ContentValues values = new ContentValues();
    values.put(HistorySongConstant.SONG_ID, historySongConstant.song_id);
    values.put(HistorySongConstant.UNIQ_NO, historySongConstant.unique_no);
    values.put(SongConstantFav.SONG_TITLE, songConstantFav.song_title);
    values.put(SongConstantFav.LYRIC, songConstantFav.lyric);

    //Inserting Row
    SQLiteDatabase.insert(SongConstantFav.TABLE, null, values);

    SQLiteDatabase.close();
}

public Cursor GetFavSongList(){
    SQLiteDatabase = this.getWritableDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstantFav.KEY_ROWID + "," +
        SongConstantFav.SONG_ID + "," +
        SongConstantFav.SONG_TITLE + "," +
        SongConstantFav.LYRIC +
    " FROM " + SongConstantFav.TABLE;
    Cursor cursor = SQLiteDatabase.rawQuery(selectQuery, null);
    if(cursor == null) {
        return null;
    } else if(!cursor.moveToFirst()) {
        cursor.close();
    }
    SQLiteDatabase.close();
    return null;
}
return cursor;
}

public Cursor GetFavSongListById(int keyId) {
    SQLiteDatabase = this.getWritableDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstantFav.KEY_ROWID + "," +
        SongConstantFav.SONG_ID + "," +
        SongConstantFav.SONG_TITLE + "," +
        SongConstantFav.LYRIC +
    " FROM " + SongConstantFav.TABLE +
    " WHERE " + SongConstantFav.SONG_ID + "=?";
    Cursor cursor = SQLiteDatabase.rawQuery(selectQuery, new String[]
    (String.valueOf(keyId)));

    if (cursor == null) {
        return null;
    } else if (!cursor.moveToFirst()) {
        cursor.close();
    }
}

```

```

sqliteDatabase.close();
return null;
}
return cursor;
}
}

```

HistoryDataBase.java

```

package com.ralte9gmail.sasongbook.DATABASE;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import com.ralte9gmail.sasongbook.CONTENT.SongConstantHistory;

..
..
.. created by Ralte on 3/26/2016.

public class HistoryDataBase extends SQLiteOpenHelper {

    public static final int DATABASE_VERSION = 1;
    public static final String DATABASE_NAME =
        "data-base-com.ralte9gmail.sasongbook/databases/";
    private Context mContext;
    SQLiteDatabase sqliteDatabase;
    Database Name
    public static final String DATABASE_NAME = "HISTORY_HLA.DB";

    public HistoryDataBase(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
        this.mContext = context;
    }

    @Override
    public void onCreate(SQLiteDatabase sqLiteDatabase) {

        String CREATE_TABLE = "CREATE TABLE " + SongConstantHistory.TABLE + "("
+ SongConstantHistory.SONG_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, "
+ SongConstantHistory.SONG_TITLE + " TEXT, "
+ SongConstantHistory.LYRIC + " TEXT )";

        sqLiteDatabase.execSQL(CREATE_TABLE);

    }

    @Override
    public void onUpgrade(SQLiteDatabase sqLiteDatabase, int oldVersion, int newVersion) {

        sqLiteDatabase.execSQL("DROP TABLE IF EXISTS " + SongConstantHistory.TABLE);

        // Create table again
        onCreate(sqLiteDatabase);

    }

    public void Delete(){
        sqLiteDatabase = this.getWritableDatabase();
    }

```

```
sqliteDatabase.delete(SongConstantHistory.TABLE, null, null);
sqliteDatabase.close();
}
```

```
public void InsertHistory(SongConstantHistory songConstantHistory) {
```

```
    //Open connection to write data
    sqliteDatabase = this.getWritableDatabase();
    ContentValues values = new ContentValues();
    values.put(HistorySongConstant.SONG_ID, historySongConstant.song_id);
    values.put(HistorySongConstant.UNIQ_NO, historySongConstant.unique_no);
    values.put(SongConstantHistory.SONG_TITLE, songConstantHistory.song_title);
    values.put(SongConstantHistory.LYRIC, songConstantHistory.lyric);
```

```
    //Inserting data
    sqliteDatabase.insert(SongConstantHistory.TABLE, null, values);
```

```
    sqliteDatabase.close();
}
```

```
public Cursor GetHistorySongList(){
```

```
    sqliteDatabase = this.getReadableDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstantHistory.KEY_ROWID + "," +
        SongConstantHistory.SONG_ID + "," +
        SongConstantHistory.SONG_TITLE + "," +
        SongConstantHistory.LYRIC +
    " FROM " + SongConstantHistory.TABLE;
    Cursor cursor = sqliteDatabase.rawQuery(selectQuery, null);
    if(cursor == null) {
        return null;
    } else if(!cursor.moveToFirst()) {
        cursor.close();
    }
    sqliteDatabase.close();
    return null;
}
return cursor;
}
```

```
public Cursor GetHistorySongListById(int keyId) {
```

```
    sqliteDatabase = this.getReadableDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstantHistory.KEY_ROWID + "," +
        SongConstantHistory.SONG_ID + "," +
        SongConstantHistory.SONG_TITLE + "," +
        SongConstantHistory.LYRIC +
    " FROM " + SongConstantHistory.TABLE +
    " WHERE " + SongConstantHistory.SONG_ID + "=?";
    Cursor cursor = sqliteDatabase.rawQuery(selectQuery, new String[]
    {String.valueOf(keyId)});

    if (cursor == null) {
        return null;
    } else if (!cursor.moveToFirst()) {
        cursor.close();
    }
    sqliteDatabase.close();
    return null;
}
return cursor;
}
```

SongDbHelper.java

```
package com.ralte9gmail.sasongbook.DATABASE;

import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import com.ralte9gmail.sasongbook.CONTENT.SongConstant;

...
// Created by Sivas on 3/23/2016.

public class SongDbHelper extends SQLiteOpenHelper {
    // This class is used to upgrade database version
    // whenever you add, edit table, you need to change the
    // version number.
    public static final int DATABASE_VERSION = 1;
    public static final String DBLOCATION =
        "/data/data/com.ralte9gmail.sasongbook/databases/";
    private Context mContext;
    SQLiteDatabase sqLiteDatabase;
    // Database Name
    public static final String DATABASE_NAME = "HLA.DB";

    public SongDbHelper(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
        this.mContext = context;
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        // All necessary tables you like to create will create here

        String CREATE_TABLE = "CREATE TABLE " + SongConstant.TABLE + "("
            + SongConstant.SONG_ID + " INTEGER PRIMARY KEY AUTOINCREMENT ,"
            + SongConstant.SONG_TITLE + " TEXT, "
            + SongConstant.LINK + " TEXT )";

        db.execSQL(CREATE_TABLE);
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        // If you add table it existed, all data will be gone!!!

        db.execSQL("DROP TABLE IF EXISTS " + SongConstant.TABLE);

        // Create tables again
        onCreate(db);
    }

    public SQLiteDatabase openDatabase(){
        String dbPath = mContext.getDatabasePath(DATABASE_NAME).getPath();
        if(sqlLiteDatabase != null && sqlLiteDatabase.isOpen()){
            return null;
        }
        sqlLiteDatabase =
            SQLiteDatabase.openDatabase(dbPath, null, SQLiteDatabase.OPEN_READWRITE);
    }
}
```

```

return null;
}
public void closeDatabase(){
if(sqliteDatabase != null){
sqliteDatabase.close();
}
}

public Cursor getSongList(){
openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE;
Cursor cursor = SQLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor A_getSongList(){
openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 1 +
" AND " + 20;
Cursor cursor = SQLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor AW_getSongList(){
openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 21 +
" AND " + 32;
Cursor cursor = SQLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
}

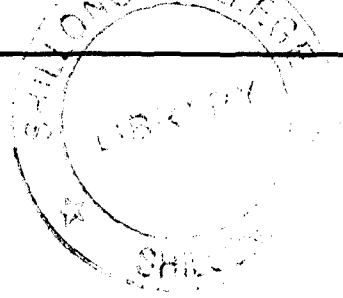
```

```
) else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}
```

```
public Cursor B_getSongList(){
    openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 33 +
" AND " + 40;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery,null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}
```

```
public Cursor CH_getSongList(){
    openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 41 +
" AND " + 69;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery,null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}
```

```
public Cursor D_getSongList(){
    openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 70 +
" AND " + 79;
```




```

Cursor cursor = sqLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor E_getSongList(){
    openDatabase();
String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 80 +
" AND " + 95;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor F_getSongList(){
    openDatabase();
String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 96 +
" AND " + 98;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor G_getSongList(){
    openDatabase();
String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +

```

```

" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 99 +
" AND " + 101;
Cursor cursor = sqliteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor NG_getSongList(){
    openDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 102 +
" AND " + 115;
    Cursor cursor = sqliteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor H_getSongList(){
    openDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " + 116 +
" AND " + 125;
    Cursor cursor = sqliteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor I_getSongList(){
    openDatabase();
    String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +

```

```

        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " +126 +
" AND " + 136;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
        cursor.close();
closeDatabase();
return null;
}
return cursor;
}

```

```

public Cursor J_getSongList(){
        openDatabase();
String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " +137 +
" AND " + 143;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
        cursor.close();
closeDatabase();
return null;
}
return cursor;
}

```

```

public Cursor K_getSongList(){
        openDatabase();
String selectQuery = "SELECT rowid as " +
        SongConstant.KEY_ROWID + "," +
        SongConstant.SONG_ID + "," +
        SongConstant.SONG_TITLE + "," +
        SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID +
" BETWEEN " +144 +
" AND " + 158;
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery, null);
if(cursor == null) {
return null;
} else if(!cursor.moveToFirst()) {
        cursor.close();
closeDatabase();
return null;
}
return cursor;
}

```

```

public Cursor getSongListByKeyWord(String search) {
        openDatabase();

```

```

String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_TITLE + " LIKE '%" +search + "%' ";
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery,null);

if (cursor == null) {
return null;
} else if (!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

public Cursor getSongListById(int keyId) {
    openDatabase();
String selectQuery = "SELECT rowid as " +
    SongConstant.KEY_ROWID + "," +
    SongConstant.SONG_ID + "," +
    SongConstant.SONG_TITLE + "," +
    SongConstant.LYRIC +
" FROM " + SongConstant.TABLE +
" WHERE " + SongConstant.SONG_ID + "=?";
Cursor cursor = sqLiteDatabase.rawQuery(selectQuery,new String[]
{String.valueOf(keyId)});

if (cursor == null) {
return null;
} else if (!cursor.moveToFirst()) {
    cursor.close();
closeDatabase();
return null;
}
return cursor;
}

}

```

FRAGMENT:

A_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;

```

```

import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class A_Fragment extends Fragment implements SearchView.OnQueryTextListener{

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
View view = inflater.inflate(R.layout.fragment_a, container, false);
// Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.A_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_a);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 1;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
}

```

```

inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
    SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
    SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
    search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onMenuItemActionCollapse(MenuItem item) {
return true;
}
    });

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSongListByKeyWord(query);
if (cursor == null) {
    Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
    Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;
}

@Override
public boolean onQueryTextChange(String newText) {
cursor = songDbHelper.getSongListByKeyWord(newText);
if (cursor != null) {
customListAdapter.swapCursor(cursor);
}
return false;
}
}
}

```

fragment_a.xml

```

<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context="com.ralte9gmail.sasongbook.FRAGMENT.A_Fragment">

```

```

<ListView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/list_view_song_list_a"
>
</ListView>
</FrameLayout>

```

AllFragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class AllFragment extends Fragment implements SearchView.OnQueryTextListener{

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_all, container, false);
        // Inflate the layout for this fragment

```

```

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
    super.onViewCreated(view, savedInstanceState);

    setHasOptionsMenu(true);
    songDbHelper = new SongDbHelper(getActivity());
    cursor = songDbHelper.getSongList();
    customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
    list = (ListView) view.findViewById(R.id.list_view_song_list_all);
    list.setAdapter(customListAdapter);

    list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
            int newPosition = pos + 1;
            Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
            intent.putExtra("position", newPosition);
            startActivity(intent);
        }
    });

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {

    @Override
    public boolean onMenuItemActionExpand(MenuItem item) {
        customListAdapter.swapCursor(cursor);
        return true;
    }

    @Override
    public boolean onMenuItemActionCollapse(MenuItem item) {
        return true;
    }
    });

}

@Override
}

@Override
}

```



```

public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}

```

fragment_all.xml

```

<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.ralte9gmail.sasongbook.FRAGMENT.AllFragment">
    <!-- TODO: Update blank fragment layout -->
    <ListView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/list_view_song_list_all"
    >
    </ListView>
</FrameLayout>

```

AwFragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;

```

```

import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class AwFragment extends Fragment implements SearchView.OnQueryTextListener {

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
View view = inflater.inflate(R.layout.fragment_aw, container, false);
// Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.AW_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_aw);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 21;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);

```

```

final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
    SearchManager manager = (SearchManager)
        getActivity().getSystemService(Context.SEARCH_SERVICE);
    SearchView search = (SearchView) menu.findViewById(R.id.search).getActionView();
    search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}

search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
    new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    customListAdapter.swapCursor(cursor);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    return true;
}

});

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
}

```

B_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

```

```

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
        // Inflate the layout for this fragment

        return view;
    }
    @Override
    public void onViewCreated(View view, Bundle savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        setHasOptionsMenu(true);
        songDbHelper = new SongDbHelper(getActivity());
        cursor = songDbHelper.B_getSongList();
        customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
        list = (ListView) view.findViewById(R.id.list_view_song_list_b);
        list.setAdapter(customListAdapter);

        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
                int newPosition = pos + 33;
                Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
                intent.putExtra("position", newPosition);
            }
        });
    }
}

```

```

startActivity(intent);
}
    });

}

@Override
    @TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
        search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onOptionsItemSelectedActionExpand(MenuItem item) {
    customListAdapter.swapCursor(cursor);
    return true;
}

@Override
public boolean onOptionsItemSelectedActionCollapse(MenuItem item) {
    return true;
}

        });

//return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
}

```

```
    }  
    return false;  
    }  
}
```

C_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;  
  
import android.annotation.TargetApi;  
import android.app.SearchManager;  
import android.content.Context;  
import android.content.Intent;  
import android.database.Cursor;  
import android.os.Build;  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.support.v4.view.MenuItemCompat;  
import android.support.v7.widget.SearchView;  
import android.view.LayoutInflater;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.AdapterView;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;  
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;  
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;  
import com.ralte9gmail.sasongbook.R;  
  
public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {  
  
    private CustomListAdapter customListAdapter;  
    private ListView list;  
    private Cursor cursor;  
    private SongDbHelper songDbHelper;  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
    }  
    @Override  
    public View onCreateView(LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState) {  
        View view = inflater.inflate(R.layout.fragment_b, container, false);  
        // Inflate the layout for this fragment  
  
        return view;  
    }  
  
    @Override  
    public void onViewCreated(View view, Bundle savedInstanceState) {  
        super.onViewCreated(view, savedInstanceState);  
  
        setHasOptionsMenu(true);  
    }  
}
```

```

songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
        int newPosition = pos + 33;
        Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
        intent.putExtra("position", newPosition);
        startActivity(intent);
    }
});

}

@Override
    @TargetApi(Build.VERSION_CODES.HONEYCOMB)
    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
        // Inflate the menu; this adds items to the action bar if it is present.
        inflater.inflate(R.menu.options_menu, menu);
        final MenuItem item = menu.findItem(R.id.search);
        final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
            SearchManager manager = (SearchManager)
                getActivity().getSystemService(Context.SEARCH_SERVICE);
            // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
            search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
        }

        search.setOnQueryTextListener(this);
        MenuItemCompat.setOnActionExpandListener(item,
            new MenuItemCompat.OnActionExpandListener() {

                @Override
                public boolean onMenuItemActionExpand(MenuItem item) {
                    customListAdapter.swapCursor(cursor);
                    return true;
                }

                @Override
                public boolean onMenuItemActionCollapse(MenuItem item) {
                    return true;
                }
            }
        );
    }

    //return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyword(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",

```



```

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
    View view = inflater.inflate(R.layout.fragment_b, container, false);
    // Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});
}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
    SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
// SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
    search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onMenuItemActionCollapse(MenuItem item) {
return true;
}
});
}

```

```
return true;
}
```

```
@Override
```

```
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}
```

```
@Override
```

```
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
```

E_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;
```

```
import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;
```

```

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
View view = inflater.inflate(R.layout.fragment_b, container, false);
// Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
// SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {

```

```

customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
return true;
}

        });

    };

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSongListByKeyWord(query);
if (cursor == null) {
    Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
else {
    Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;
}

@Override
public boolean onQueryTextChange(String newText) {
cursor = songDbHelper.getSongListByKeyWord(newText);
if (cursor != null) {
customListAdapter.swapCursor(cursor);
}
return false;
}

```

F_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;

```



```

if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
    SearchManager manager = (SearchManager)
        getActivity().getSystemService(Context.SEARCH_SERVICE);
    SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
    search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}

search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onOptionsItemSelectedActionExpand(MenuItem item) {
    customListAdapter.swapCursor(cursor);
    return true;
}

@Override
public boolean onOptionsItemSelectedActionCollapse(MenuItem item) {
    return true;
}

});

//return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
}

```

G_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;

```

```

import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
View view = inflater.inflate(R.layout.fragment_b, container, false);
// Inflate the layout for this fragment

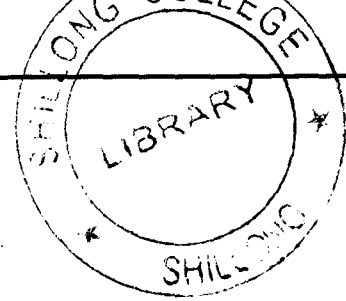
return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
}
}

```



```
    });
}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {

            @Override
            public boolean onMenuItemActionExpand(MenuItem item) {
                customListAdapter.swapCursor(cursor);
                return true;
            }

            @Override
            public boolean onMenuItemActionCollapse(MenuItem item) {
                return true;
            }
        }
    );

    //return false;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
```



```
}  
}
```

H_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;  
  
import android.annotation.TargetApi;  
import android.app.SearchManager;  
import android.content.Context;  
import android.content.Intent;  
import android.database.Cursor;  
import android.os.Build;  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.support.v4.view.MenuItemCompat;  
import android.support.v7.widget.SearchView;  
import android.view.LayoutInflater;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.AdapterView;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.AdapterView.OnItemSelectedListener;  
import android.widget.Toast;  
  
import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;  
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;  
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;  
import com.ralte9gmail.sasongbook.R;  
  
public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {  
  
    private CustomListAdapter customListAdapter;  
    private ListView list;  
    private Cursor cursor;  
    private SongDbHelper songDbHelper;  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
  
    }  
    @Override  
    public View onCreateView(LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState) {  
        View view = inflater.inflate(R.layout.fragment_b, container, false);  
        // Inflate the layout for this fragment  
  
        return view;  
    }  
  
    @Override  
    public void onViewCreated(View view, Bundle savedInstanceState) {  
        super.onViewCreated(view, savedInstanceState);  
  
        setHasOptionsMenu(true);  
        songDbHelper = new SongDbHelper(getActivity());  
        cursor = songDbHelper.B_getSongList();  
    }  
}
```

```

customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
// SearchView search = (SearchView) menu.findViewById(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}

search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onOptionsItemSelectedExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onOptionsItemSelectedCollapse(MenuItem item) {
return true;
}

});

//return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSngListByKeyWord(query);
if (cursor == null) {
Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
}

```

```

customListAdapter.swapCursor(cursor);
return false;
}

@Override
public boolean onQueryTextChanged(String newText) {
    cursor = songDbHelper.getSongListByKeyword(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}

```

I_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
    }
}

```

// Inflate the layout for this fragment

```
return view;  
}
```

```
@Override
```

```
public void onViewCreated(View view, Bundle savedInstanceState) {  
    super.onViewCreated(view, savedInstanceState);
```

```
    setHasOptionsMenu(true);  
    songDbHelper = new SongDbHelper(getActivity());  
    cursor = songDbHelper.B_getSongList();  
    customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);  
    list = (ListView) view.findViewById(R.id.list_view_song_list_b);  
    list.setAdapter(customListAdapter);
```

```
    list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

```
        @Override
```

```
        public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {  
            int newPosition = pos + 33;  
            Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);  
            intent.putExtra("position", newPosition);  
            startActivity(intent);  
        }  
    });
```

```
}
```

```
@Override
```

```
    @TargetApi(Build.VERSION_CODES.HONEYCOMB)
```

```
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
```

```
    // Inflate the menu; this adds items to the action bar if it is present.
```

```
    inflater.inflate(R.menu.options_menu, menu);
```

```
    final MenuItem item = menu.findItem(R.id.search);
```

```
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
```

```
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
```

```
        SearchManager manager = (SearchManager)
```

```
        getActivity().getSystemService(Context.SEARCH_SERVICE);
```

```
        // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
```

```
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
```

```
    }
```

```
        search.setOnQueryTextListener(this);
```

```
        MenuItemCompat.setOnActionExpandListener(item,
```

```
        new MenuItemCompat.OnActionExpandListener() {
```

```
            @Override
```

```
            public boolean onMenuItemActionExpand(MenuItem item) {
```

```
                customListAdapter.swapCursor(cursor);
```

```
                return true;
```

```
            }
```

```
            @Override
```

```
            public boolean onMenuItemActionCollapse(MenuItem item) {
```

```
                return true;
```

```
            }
```

```
        });
```

```
    //return true;
```

```
}
```



```

private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
    Bundle savedInstanceState) {
    View view = inflater.inflate(R.layout.fragment_b, container, false);
    // Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
    super.onViewCreated(view, savedInstanceState);

    setHasOptionsMenu(true);
    songDbHelper = new SongDbHelper(getActivity());
    cursor = songDbHelper.B_getSongList();
    customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
    list = (ListView) view.findViewById(R.id.list_view_song_list_b);
    list.setAdapter(customListAdapter);

    list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
            int newPosition = pos + 33;
            Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
            intent.putExtra("position", newPosition);
            startActivity(intent);
        }
    });
}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {
            @Override
            public boolean onOptionsItemSelected(MenuItem item) {
                customListAdapter.swapCursor(cursor);
                return true;
            }
        }
    );
}

```

```

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
}

```

K_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;

```



```
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
        // Inflate the layout for this fragment

        return view;
    }
    @Override
    public void onViewCreated(View view, Bundle savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        setHasOptionsMenu(true);
        songDbHelper = new SongDbHelper(getActivity());
        cursor = songDbHelper.B_getSongList();
        customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
        list = (ListView) view.findViewById(R.id.list_view_song_list_b);
        list.setAdapter(customListAdapter);

        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
                int newPosition = pos + 33;
                Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
                intent.putExtra("position", newPosition);
                startActivity(intent);
            }
        });
    }
    @Override
    @TargetApi(Build.VERSION_CODES.HONEYCOMB)
    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
        // Inflate the menu; this adds items to the action bar if it is present.
        inflater.inflate(R.menu.options_menu, menu);
        final MenuItem item = menu.findItem(R.id.search);
        final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
        if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB){
            SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
            // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        }
    }
}
```



```

search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
    search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onMenuItemActionCollapse(MenuItem item) {
return true;
}

});

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSongListByKeyWord(query);
if (cursor == null) {
    Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
    Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;
}

@Override
public boolean onQueryTextChange(String newText) {
cursor = songDbHelper.getSongListByKeyWord(newText);
if (cursor != null) {
customListAdapter.swapCursor(cursor);
}
return false;
}
}
}

```

L_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;

```



```

@Override
    @TargetApi (Build.VERSION_CODES.HONEYCOMB)
    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
        Inflate the menu; this adds items to the action bar if it is present.
        inflater.inflate(R.menu.options_menu, menu);
        final MenuItem item = menu.findItem(R.id.search);
        final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
            SearchManager manager = (SearchManager)
                getActivity().getSystemService(Context.SEARCH_SERVICE);
            SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
            search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
        }

        search.setOnQueryTextListener(this);
        MenuItemCompat.setOnActionExpandListener(item,
            new MenuItemCompat.OnActionExpandListener() {

@Override
                public boolean onMenuItemActionExpand(MenuItem item) {
                    customListAdapter.swapCursor(cursor);
                    return true;
                }

@Override
                public boolean onMenuItemActionCollapse(MenuItem item) {
                    return true;
                }
            });
    }

    //returns true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
}

```

M_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
        // Inflate the layout for this fragment

        return view;
    }

    @Override
    public void onViewCreated(View view, Bundle savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        setHasOptionsMenu(true);
        songDbHelper = new SongDbHelper(getActivity());
        cursor = songDbHelper.B_getSongList();
        customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
        list = (ListView) view.findViewById(R.id.list_view_song_list_b);
        list.setAdapter(customListAdapter);
    }
}
```

```

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onMenuItemActionCollapse(MenuItem item) {
return true;
}

});

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSongListByKeyWord(query);
if (cursor == null) {
Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;
}

```




```
)

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
    super.onViewCreated(view, savedInstanceState);

    setHasOptionsMenu(true);
    songDbHelper = new SongDbHelper(getActivity());
    cursor = songDbHelper.B_getSongList();
    customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
    list = (ListView) view.findViewById(R.id.list_view_song_list_b);
    list.setAdapter(customListAdapter);

    list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
            int newPosition = pos + 33;
            Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
            intent.putExtra("position", newPosition);
            startActivity(intent);
        }
    });
}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflation: the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        search.setSearchableInfo((SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {

    @Override
    public boolean onMenuItemActionExpand(MenuItem item) {
        customListAdapter.swapCursor(cursor);
        return true;
    }

    @Override
    public boolean onMenuItemActionCollapse(MenuItem item) {
        return true;
    }
    });

    //return true;
}

@Override
```



```

private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
    Bundle savedInstanceState) {
    View view = inflater.inflate(R.layout.fragment_b, container, false);
    // Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
    super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
        int newPosition = pos + 33;
        Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
        intent.putExtra("position", newPosition);
        startActivity(intent);
    }
});

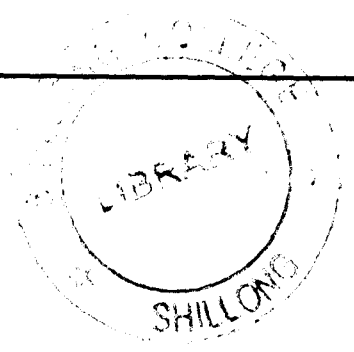
}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
        // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    customListAdapter.swapCursor(cursor);
return true;
}

@Override

```



```
public boolean onOptionsItemSelected(MenuItem item) {
    return true;
}
```

```
};
}
```

```
return true;
}
```

```
@Override
```

```
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}
```

```
@Override
```

```
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
```

P_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;
```

```
import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
```

```

import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
View view = inflater.inflate(R.layout.fragment_b, container, false);
// Inflate the layout for this fragment

return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
// SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
}
}

```

```

    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
    new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    customListAdapter.swapCursor(cursor);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    return true;
}

});

//return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
        Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
        Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
}

```

R_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;

```

```

import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
        // Inflate the layout for this fragment

        return view;
    }

    @Override
    public void onViewCreated(View view, Bundle savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        setHasOptionsMenu(true);
        songDbHelper = new SongDbHelper(getActivity());
        cursor = songDbHelper.B_getSongList();
        customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
        list = (ListView) view.findViewById(R.id.list_view_song_list_b);
        list.setAdapter(customListAdapter);

        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
                int newPosition = pos + 33;
                Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
                intent.putExtra("position", newPosition);
                startActivity(intent);
            }
        });
    }
}

```

```

@Override
    @TargetApi(Build.VERSION_CODES.HONEYCOMB)
    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
        // Inflate the menu; this adds items to the action bar if it is present.
        inflater.inflate(R.menu.options_menu, menu);
        final MenuItem item = menu.findItem(R.id.search);
        final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
            SearchManager manager = (SearchManager)
                getActivity().getSystemService(Context.SEARCH_SERVICE);
            SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
            search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
        }
        search.setOnQueryTextListener(this);
        MenuItemCompat.setOnActionExpandListener(item,
            new MenuItemCompat.OnActionExpandListener() {

@Override
        public boolean onOptionsItemSelectedActionExpand(MenuItem item) {
            customListAdapter.swapCursor(cursor);
            return true;
        }

@Override
        public boolean onOptionsItemSelectedCollapse(MenuItem item) {
            return true;
        }
    });
}

@Override
    public boolean onOptionsItemSelected() {
        return true;
    }

@Override
    public boolean onQueryTextSubmit(String query) {
        cursor = songDbHelper.getSongListByKeyWord(query);
        if (cursor == null) {
            Toast.makeText(getActivity(), "No Record found",
                Toast.LENGTH_LONG).show();
        } else {
            Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
                Toast.LENGTH_LONG).show();
        }
        customListAdapter.swapCursor(cursor);
        return false;
    }

@Override
    public boolean onQueryTextChange(String newText) {
        cursor = songDbHelper.getSongListByKeyWord(newText);
        if (cursor != null) {
            customListAdapter.swapCursor(cursor);
        }
        return false;
    }
}

```

T_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;

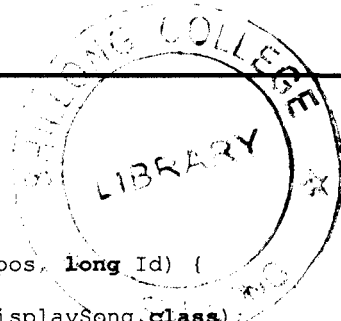
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
        // Inflate the layout for this fragment

        return view;
    }

    @Override
    public void onViewCreated(View view, Bundle savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        setHasOptionsMenu(true);
        songDbHelper = new SongDbHelper(getActivity());
        cursor = songDbHelper.B_getSongList();
        customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
        list = (ListView) view.findViewById(R.id.list_view_song_list_b);
        list.setAdapter(customListAdapter);
    }
}
```



```
list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
search.setOnQueryTextListener(this);
MenuItemCompat.setActionExpandListener(item,
new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onMenuItemActionCollapse(MenuItem item) {
return true;
}

});

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSongListByKeyWord(query);
if (cursor == null) {
Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;
}
}
```



```

@Override
public boolean onQueryTextChanged(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}

```

TT_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.AdapterView.OnItemLongClickListener;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

    private CustomListAdapter customListAdapter;
    private ListView list;
    private Cursor cursor;
    private SongDbHelper songDbHelper;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_b, container, false);
        // Inflate the layout for this fragment

    return view;
}

```

```

@Override
public void onCreateView(View view, Bundle savedInstanceState) {
    super.onCreate(view, savedInstanceState);

    setHasOptionsMenu(true);
    songDbHelper = new SongDbHelper(getActivity());
    cursor = songDbHelper.B_getSongList();
    customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
    list = (ListView) view.findViewById(R.id.list_view_song_list_b);
    list.setAdapter(customListAdapter);

    list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
            int newPosition = pos + 33;
            Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
            intent.putExtra("position", newPosition);
            startActivity(intent);
        }
    });
}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        // SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {

    @Override
    public boolean onOptionsItemSelectedActionExpand(MenuItem item) {
        customListAdapter.swapCursor(cursor);
        return true;
    }

    @Override
    public boolean onOptionsItemSelectedActionCollapse(MenuItem item) {
        return true;
    }
    });
}

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {

```

```

cursor = songDbHelper.getSongListByKeyword(query);
if (cursor == null) {
    Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
    Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;

}

@Override
public boolean onQueryTextChanged(String newText) {
cursor = songDbHelper.getSongListByKeyword(newText);
if (cursor != null) {
customListAdapter.swapCursor(cursor);
}
return false;

}
}

```

V_Fragment.java

```

package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override

```

```

public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
    Bundle savedInstanceState) {
    View view = inflater.inflate(R.layout.fragment_b, container, false);
    Inflate the layout for this fragment

    return view;
}

@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
    super.onViewCreated(view, savedInstanceState);

    setHasOptionsMenu(true);
    songDbHelper = new SongDbHelper(getActivity());
    cursor = songDbHelper.B_getSongList();
    customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
    list = (ListView) view.findViewById(R.id.list_view_song_list_b);
    list.setAdapter(customListAdapter);

    list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
            int newPosition = pos + 33;
            Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
            intent.putExtra("position", newPosition);
            startActivity(intent);
        }
    });

}

@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    Inflate the menu; this adds items to the action bar if it is present.
    inflater.inflate(R.menu.options_menu, menu);
    final MenuItem item = menu.findItem(R.id.search);
    final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
        SearchManager manager = (SearchManager)
            getActivity().getSystemService(Context.SEARCH_SERVICE);
        SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
        search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
    }
    search.setOnQueryTextListener(this);
    MenuItemCompat.setOnActionExpandListener(item,
        new MenuItemCompat.OnActionExpandListener() {

    @Override
    public boolean onOptionsItemSelectedActionExpand(MenuItem item) {
        customListAdapter.swapCursor(cursor);
        return true;
    }

    @Override
    public boolean onOptionsItemSelectedActionCollapse(MenuItem item) {
        return true;
    }
}

```

```
);
}

}

}

@Override
public boolean onQueryTextSubmit(String query) {
    cursor = songDbHelper.getSongListByKeyWord(query);
    if (cursor == null) {
        Toast.makeText(getActivity(), "No Record found",
            Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
            Toast.LENGTH_LONG).show();
    }
    customListAdapter.swapCursor(cursor);
    return false;
}

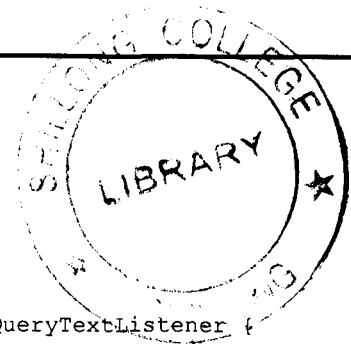
@Override
public boolean onQueryTextChange(String newText) {
    cursor = songDbHelper.getSongListByKeyWord(newText);
    if (cursor != null) {
        customListAdapter.swapCursor(cursor);
    }
    return false;
}
}
}
```

Z_Fragment.java

```
package com.ralte9gmail.sasongbook.FRAGMENT;

import android.annotation.TargetApi;
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Build;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.view.MenuItemCompat;
import android.support.v7.widget.SearchView;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.DisplaySong;
```



```
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.R;

public class B_Fragment extends Fragment implements SearchView.OnQueryTextListener {

private CustomListAdapter customListAdapter;
private ListView list;
private Cursor cursor;
private SongDbHelper songDbHelper;
@Override
public void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
}
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
View view = inflater.inflate(R.layout.fragment_b, container, false);
// Inflate the layout for this fragment
return view;
}
@Override
public void onViewCreated(View view, Bundle savedInstanceState) {
super.onViewCreated(view, savedInstanceState);

setHasOptionsMenu(true);
songDbHelper = new SongDbHelper(getActivity());
cursor = songDbHelper.B_getSongList();
customListAdapter = new CustomListAdapter(getActivity(), cursor, 0);
list = (ListView) view.findViewById(R.id.list_view_song_list_b);
list.setAdapter(customListAdapter);

list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int pos, long Id) {
int newPosition = pos + 33;
Intent intent = new Intent(getActivity().getApplicationContext(), DisplaySong.class);
intent.putExtra("position", newPosition);
startActivity(intent);
}
});
}
@Override
@TargetApi(Build.VERSION_CODES.HONEYCOMB)
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
// Inflate the menu; this adds items to the action bar if it is present.
inflater.inflate(R.menu.options_menu, menu);
final MenuItem item = menu.findItem(R.id.search);
final SearchView search = (SearchView) MenuItemCompat.getActionView(item);
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) {
SearchManager manager = (SearchManager)
getActivity().getSystemService(Context.SEARCH_SERVICE);
// SearchView search = (SearchView) menu.findItem(R.id.search).getActionView();
search.setSearchableInfo(manager.getSearchableInfo(getActivity().getComponentName()));
}
search.setOnQueryTextListener(this);
MenuItemCompat.setOnActionExpandListener(item,
```

```

new MenuItemCompat.OnActionExpandListener() {

@Override
public boolean onMenuItemActionExpand(MenuItem item) {
customListAdapter.swapCursor(cursor);
return true;
}

@Override
public boolean onMenuItemActionCollapse(MenuItem item) {
return true;
}

});

return true;
}

@Override
public boolean onQueryTextSubmit(String query) {
cursor = songDbHelper.getSongListByKeyWord(query);
if (cursor == null) {
Toast.makeText(getActivity(), "No Record found",
Toast.LENGTH_LONG).show();
} else {
Toast.makeText(getActivity(), cursor.getCount() + " Records Found",
Toast.LENGTH_LONG).show();
}
customListAdapter.swapCursor(cursor);
return false;
}

@Override
public boolean onQueryTextChange(String newText) {
cursor = songDbHelper.getSongListByKeyWord(newText);
if (cursor != null) {
customListAdapter.swapCursor(cursor);
}
return false;
}
}
}

```

MAINACTIVITY

MainActivity.java

```

package com.ralte9gmail.sasongbook;

import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.support.design.widget.NavigationView;
import android.support.design.widget.TabLayout;

```

```

import android.support.v4.view.GravityCompat;
import android.support.v4.view.ViewPager;
import android.support.v4.widget.DrawerLayout;
import android.support.v7.app.ActionBarDrawerToggle;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.util.Log;
import android.view.MenuItem;
import android.widget.ListView;
import android.widget.Toast;

import com.ralte9gmail.sasongbook.ACTIVITY.History;
import com.ralte9gmail.sasongbook.ACTIVITY.Favoutite;
import com.ralte9gmail.sasongbook.ADAPTER.CustomListAdapter;
import com.ralte9gmail.sasongbook.ADAPTER.ViewPagerAdapter;
import com.ralte9gmail.sasongbook.DATABASE.SongDbHelper;
import com.ralte9gmail.sasongbook.FRAGMENT.A_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.AllFragment;
import com.ralte9gmail.sasongbook.FRAGMENT.AwFragment;
import com.ralte9gmail.sasongbook.FRAGMENT.B_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.ChFragment;
import com.ralte9gmail.sasongbook.FRAGMENT.D_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.E_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.F_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.G_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.H_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.I_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.J_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.K_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.L_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.M_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.N_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.Ng_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.P_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.R_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.S_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.TT_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.T_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.V_Fragment;
import com.ralte9gmail.sasongbook.FRAGMENT.Z_Fragment;

import java.io.File;
import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

public class MainActivity extends AppCompatActivity
implements NavigationView.OnNavigationItemSelectedListener {
private SongDbHelper songDbHelper;
private ListView list;
private TabLayout tabLayout;
private ViewPager viewPager;
Cursor cursor;
CustomListAdapter customListAdapter;

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

songDbHelper = new SongDbHelper(this);
//Check exists database

```



```

File database = getApplicationContext().getDatabasePath(SongDbHelper.DATABASE_NAME);
if(false == database.exists()) {
songDbHelper.getReadableDatabase();
//Copy db
if(copyDatabase(this)) {
        Toast.makeText(this, "Copy Database Success",
Toast.LENGTH_LONG).show();
}else {
        Toast.makeText(this,"Error Data Copy", Toast.LENGTH_LONG).show();
}
}

        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar1);
setSupportActionBar(toolbar);
getSupportActionBar().setDisplayHomeAsUpEnabled(true);

viewPager = (ViewPager) findViewById(R.id.viewpager);
setupViewPager(viewPager);
tabLayout = (TabLayout) findViewById(R.id.tablayout);
tabLayout.setupWithViewPager(viewPager);

DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(
this, drawer, toolbar, R.string.navigation_drawer_open,
R.string.navigation_drawer_close);
drawer.setDrawerListener(toggle);
toggle.syncState();

NavigationView navigationView = (NavigationView) findViewById(R.id.nav_view);
navigationView.setNavigationItemSelectedListener(this);
}

@Override
public void onBackPressed() {
        DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
if (drawer.isDrawerOpen(GravityCompat.START)) {
        drawer.closeDrawer(GravityCompat.START);
} else {
super.onBackPressed();
}
}

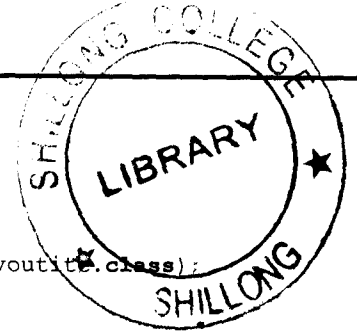
@SuppressWarnings("StatementWithEmptyBody")
@Override
public boolean onNavigationItemSelected(MenuItem item) {
        // Handle navigation view item clicks here.
int id = item.getItemId();

if (id == R.id.nav_home) {

// Intent intent = new Intent(getApplicationContext(),A_Fragment.class);
// startActivity(intent);

        // Handle the camera action
} else if (id == R.id.nav_history) {
        Intent intent = new Intent(getApplicationContext(), History.class);
startActivity(intent);
}
}

```



```
} else if (id == R.id.book_mark) {
    Intent intent = new Intent(getApplicationContext(), Favourite.class);
    startActivity(intent);
} else if (id == R.id.nav_info) {
    } else if (id == R.id.nav_about) {
    }

    DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
    drawer.closeDrawer(GravityCompat.START);
    return true;
}

private boolean copyDatabase(Context context) {
    try {
        InputStream inputStream =
            context.getAssets().open(SongDbHelper.DATABASE_NAME);
        String outFileName = SongDbHelper.DBLOCATION + SongDbHelper.DATABASE_NAME;
        OutputStream outputStream = new FileOutputStream(outFileName);
        byte[] buff = new byte[1024];
        int length = 0;
        while ((length = inputStream.read(buff)) > 0) {
            outputStream.write(buff, 0, length);
        }
        outputStream.flush();
        outputStream.close();
        Log.w("MainActivity", "DB copied");
        return true;
    } catch (Exception e) {
        e.printStackTrace();
        return false;
    }
}

private void setupViewPager(ViewPager viewPager) {
    ViewPagerAdapter viewPagerAdapter = new
    ViewPagerAdapter(getSupportFragmentManager());
    viewPagerAdapter.addFragment(new AllFragment(), "ALL");
    viewPagerAdapter.addFragment(new A_Fragment(), "A");
    viewPagerAdapter.addFragment(new AwFragment(), "AW");
    viewPagerAdapter.addFragment(new B_Fragment(), "B");
    viewPagerAdapter.addFragment(new ChFragment(), "CH");
    viewPagerAdapter.addFragment(new D_Fragment(), "D");
    viewPagerAdapter.addFragment(new E_Fragment(), "E");
    viewPagerAdapter.addFragment(new F_Fragment(), "F");
    viewPagerAdapter.addFragment(new G_Fragment(), "G");
    viewPagerAdapter.addFragment(new Ng_Fragment(), "NG");
    viewPagerAdapter.addFragment(new H_Fragment(), "H");
    viewPagerAdapter.addFragment(new I_Fragment(), "I");
    viewPagerAdapter.addFragment(new J_Fragment(), "J");
    viewPagerAdapter.addFragment(new K_Fragment(), "K");
    viewPagerAdapter.addFragment(new L_Fragment(), "L");
    viewPagerAdapter.addFragment(new M_Fragment(), "M");
    viewPagerAdapter.addFragment(new N_Fragment(), "N");
    viewPagerAdapter.addFragment(new P_Fragment(), "P");
    viewPagerAdapter.addFragment(new R_Fragment(), "R");
    viewPagerAdapter.addFragment(new S_Fragment(), "S");
    viewPagerAdapter.addFragment(new T_Fragment(), "T");
    viewPagerAdapter.addFragment(new TT_Fragment(), "TT");
}
```

```

viewPagerAdapter.addFragment(new V_Fragment(),"V");
viewPagerAdapter.addFragment(new Z_Fragment(),"Z");
viewPager.setAdapter(viewPagerAdapter);
}
@Override
public void onResume(){
super.onResume();
}
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.DrawerLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/drawer_layout"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:fitsSystemWindows="true"
tools:openDrawer="start">

<include
layout="@layout/app_bar_main"
android:layout_width="match_parent"
android:layout_height="match_parent" />

<android.support.design.widget.NavigationView
android:id="@+id/nav_view"
android:layout_width="wrap_content"
android:layout_height="match_parent"
android:layout_gravity="start"
android:fitsSystemWindows="true"
app:headerLayout="@layout/nav_header_main"
app:menu="@menu/activity_main_drawer" />

</android.support.v4.widget.DrawerLayout>

```

App_bar_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:fitsSystemWindows="true"
tools:context="com.ralte9gmail.sasongbook.MainActivity">

<android.support.design.widget.AppBarLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:theme="@style/AppTheme.AppBarOverlay">

```

```

<android.support.v7.widget.Toolbar
android:id="@+id/toolbar"
android:layout_width="match_parent"
android:layout_height="?attr/actionBarSize"
android:background="?attr/colorPrimary"
app:popupTheme="@style/AppTheme.PopupOverlay" />
</android.support.design.widget.AppBarLayout>
<include layout="@layout/content_main" />
</android.support.design.widget.CoordinatorLayout>

```

Content_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="match_parent">
<android.support.design.widget.AppBarLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:theme="@style/ThemeOverlay.AppCompat.Dark">
<android.support.v7.widget.Toolbar
android:id="@+id/toolbar1"
android:layout_width="match_parent"
android:layout_height="?attr/actionBarSize"
android:background="?attr/colorPrimary" />
<android.support.design.widget.TabLayout
android:id="@+id/tablayout"
android:layout_width="match_parent"
android:layout_height="wrap_content"
app:tabGravity="fill"
app:tabMode="scrollable" />
</android.support.design.widget.AppBarLayout>
<android.support.v4.view.ViewPager
android:id="@+id/viewpager"
android:layout_width="match_parent"
android:layout_height="match_parent"
app:layout_behavior="@string/appbar_scrolling_view_behavior" />
</android.support.design.widget.CoordinatorLayout>

```

Nav_header_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="@dimen/nav_header_height"
android:background="@drawable/background"
android:gravity="bottom"

```

```
android:orientation="vertical"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
android:theme="@style/ThemeOverlay.AppCompat.Dark">
```

```
<ImageView
android:id="@+id/imageView"
android:layout_width="70dp"
android:layout_height="70dp"
android:paddingTop="@dimen/nav_header_vertical_spacing"
android:src="@drawable/william" />
```

```
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:paddingTop="@dimen/nav_header_vertical_spacing"
android:text="William Booth"
android:textAppearance="@style/TextAppearance.AppCompat.Body1" />
```

```
<TextView
android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Sam 143:10 I Duhzawng tih mi zirtir ang che ka Pathian i nisi a"
android:textAppearance="@style/TextAppearance.AppCompat.Body1"/>
```

```
</LinearLayout>
```

List_view_content.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical" android:layout_width="match_parent"
android:layout_height="wrap_content"
android:scrollIndicators="right">
```

```
<TextView
android:id="@+id/song_id"
android:text="Here Song Title"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:visibility="gone"
android:textStyle="normal" />
```

```
<TextView
android:id="@+id/song_title"
android:text="Here Lyric"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:paddingLeft="8dip"
android:paddingTop="12dip"
android:paddingBottom="12dip"
android:textSize="16sp"
android:textStyle="normal"
android:textColor="#151414"
android:scrollIndicators="right"
/>
```

```
</LinearLayout>
```

List_view_content1.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:scrollIndicators="right">
    <TextView
        android:id="@+id/song_id"
        android:text="Here Song Title"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:visibility="gone"
        android:textStyle="normal" />

    <TextView
        android:id="@+id/song_title"
        android:text="Here Lyric"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:paddingLeft="8dip"
        android:paddingTop="12dip"
        android:paddingBottom="12dip"
        android:textSize="16sp"
        android:textStyle="normal"
        android:textColor="#151414"
        android:scrollIndicators="right"
    />

</LinearLayout>
```

List_view_contentfav.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:scrollIndicators="right">
    <TextView
        android:id="@+id/song_id"
        android:text="Here Song Title"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:visibility="gone"
        android:textStyle="normal" />

    <TextView
        android:id="@+id/song_title"
        android:text="Here Lyric"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```
android:paddingLeft="8dip"  
android:paddingTop="12dip"  
android:paddingBottom="12dip"  
android:textSize="16sp"  
android:textStyle="normal"  
android:textColor="#151414"  
android:scrollIndicators="right"  
/>
```

```
</LinearLayout>
```

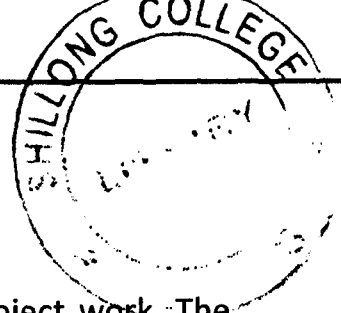
XML

Searchable.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<searchable xmlns:android="http://schemas.android.com/apk/res/android"  
android:label="@string/app_name"  
android:hint="@string/search_hint" >  
</searchable>
```

ASSETS:

HLA.DB



CONCLUSION

It is great pleasure and encouraging in developing this Project work. The implementation of this project involved a lot of things. This project helped me learned a lot of things i do not know. "SA Song BOOK" can serve as a base for Mizo community. The aim of this project is not to compete with the existing systems.

At the end i hope that they would like this project and encourage me to develop more and more projects with new techniques and ideas which will solve day to day problems.