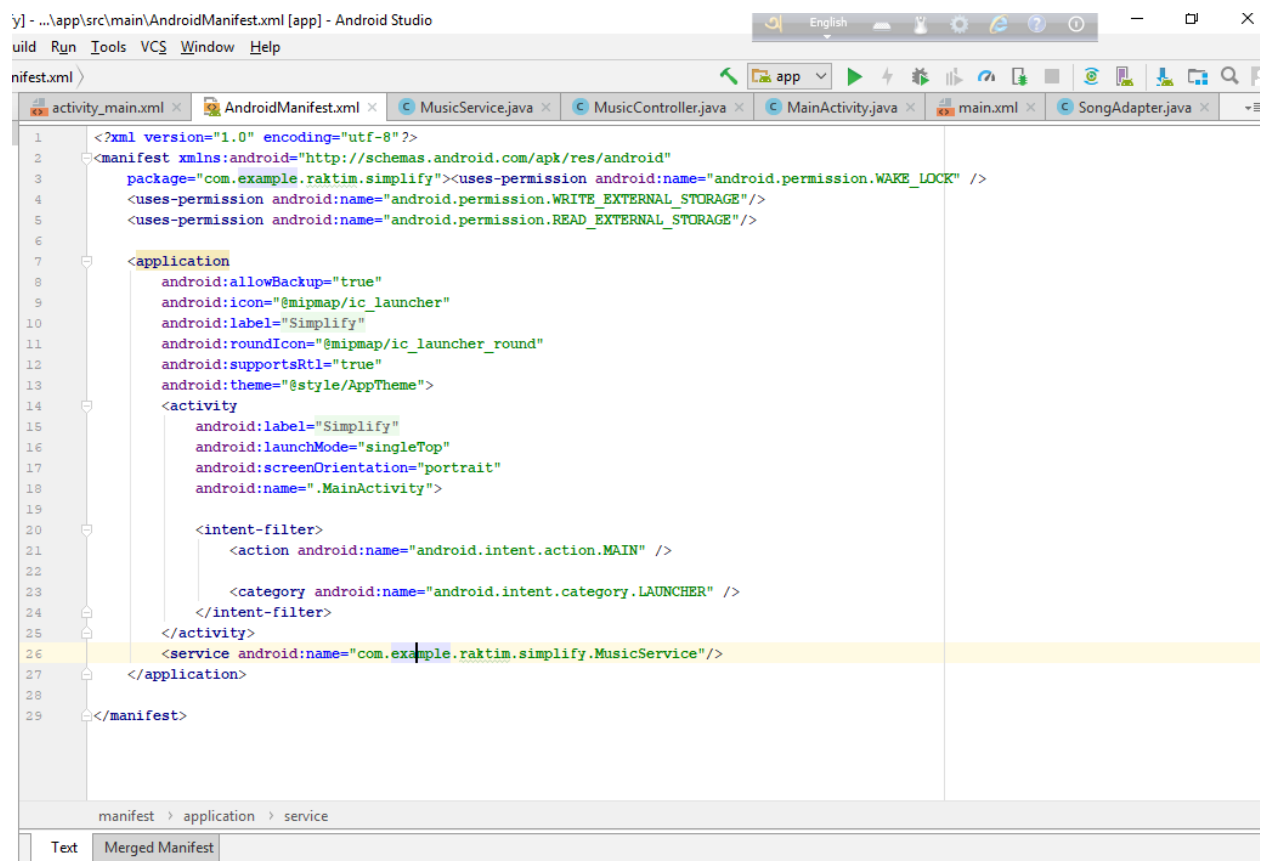


Software Engineering

Group: BETA

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This is our code how we design the application.



```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.raktim.simplify">
    <uses-permission android:name="android.permission.WAKE_LOCK" />
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="Simplify"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity
            android:label="Simplify"
            android:launchMode="singleTop"
            android:screenOrientation="portrait"
            android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <service android:name="com.example.raktim.simplify.MusicService"/>
    </application>
</manifest>
```

y] - ...\\app\\src\\main\\java\\com\\example\\raktim\\simplify\\MusicService.java [app] - Android Studio

Build Run Tools VCS Window Help

om > example > raktim > simplify > MusicService >

activity_main.xml x AndroidManifest.xml x MusicService.java x MusicController.java x MainActivity.java x main.xml x SongAdapt

```
1 package com.example.raktim.simplify;
2 import android.app.Service;
3 import android.content.Intent;
4 import android.media.MediaPlayer;
5 import android.os.IBinder;
6 import java.util.ArrayList;
7 import android.content.ContentUris;
8 import android.media.AudioManager;
9 import android.net.Uri;
10 import android.os.Binder;
11 import android.os.PowerManager;
12 import android.util.Log;
13 import java.util.Random;
14 import android.app.Notification;
15 import android.app.PendingIntent;
16
17 public class MusicService extends Service implements
18     MediaPlayer.OnPreparedListener, MediaPlayer.OnErrorListener,
19     MediaPlayer.OnCompletionListener {
20     //media player
21     private MediaPlayer player;
22     //song list
23     private ArrayList<Song> songs;
24     //current position
25     private int songPosn;
26     private final IBinder musicBind = new MusicBinder();
27     private String songTitle = "";
28     private static final int NOTIFY_ID = 1;
29     private boolean shuffle = false;
30     private Random rand;
31
32     @Override
33     public void onPrepared(MediaPlayer mp) {
34         //start playback
```

MusicService > playSong()

'minutes ago)

114:1 CRLF UTF-8 Context: <no conte

Run Tools VCS Window Help

example > raktim > simplify > MusicController

activity_main.xml × AndroidManifest.xml × MusicService.java × MusicController.java × MainActivity.java × main.xml × So

```
1 package com.example.raktim.simplify;
2 import android.content.Context;
3 import android.view.KeyEvent;
4 import android.widget.MediaController;
5
6 public class MusicController extends MediaController {
7     Context c;
8     public MusicController(Context c) {
9         super(c);
10        this.c = c;
11    }
12
13    public void hide() {}
14
15    @Override
16    public boolean dispatchKeyEvent(KeyEvent event) {
17        int keyCode = event.getKeyCode();
18        if(keyCode == KeyEvent.KEYCODE_BACK) {
19            ((MainActivity)c).onBackPressed();
20            return true;
21        }
22        return super.dispatchKeyEvent(event);
23    }
24
25 }
26
```

MusicController

```

97         bindService(playIntent, musicConnection, Context.BIND_AUTO_CREATE);
98         startService(playIntent);
99     }
100 }
101
102 //connect to the service
103 private ServiceConnection musicConnection = new ServiceConnection(){
104     @Override
105     public void onServiceConnected(ComponentName name, IBinder service) {
106         MusicBinder binder = (MusicBinder)service;
107         //get service
108         musicSrv = binder.getService();
109         //pass list
110         musicSrv.setList(songList);
111         musicBound = true;
112     }
113
114     @Override
115     public void onServiceDisconnected(ComponentName name) {
116         musicBound = false;
117     }
118
119     public void songPicked(View view){
120         musicSrv.setSong(Integer.parseInt(view.getTag().toString()));
121         musicSrv.playSong();
122         if(playbackPaused){
123             setController();
124             playbackPaused=false;
125         }
126         controller.show( timeout: 0);
127     }
128 };
129
130

```

MainActivity > onStart()

nutes ago)

98:22 CRLF UTF-8 Context: <

- ...\\app\\src\\main\\res\\menu\\main.xml [app] - Android Studio

Run Tools VCS Window Help

main.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2
3 <menu xmlns:android="http://schemas.android.com/apk/res/android"
4       xmlns:simplify="http://schemas.android.com/apk/res-auto">
5
6     <item
7         android:id="@+id/action_shuffle"
8         android:icon="@drawable/rand"
9         android:orderInCategory="1"
10        simplify:showAsAction="always"
11        android:title="Shuffle"/>
12
13     <item
14         android:id="@+id/action_end"
15         android:icon="@drawable/end"
16         android:orderInCategory="2"
17        simplify:showAsAction="always"
18        android:title="End"/>
19 </menu>
```

menu > item

Design Text

minutes ago)

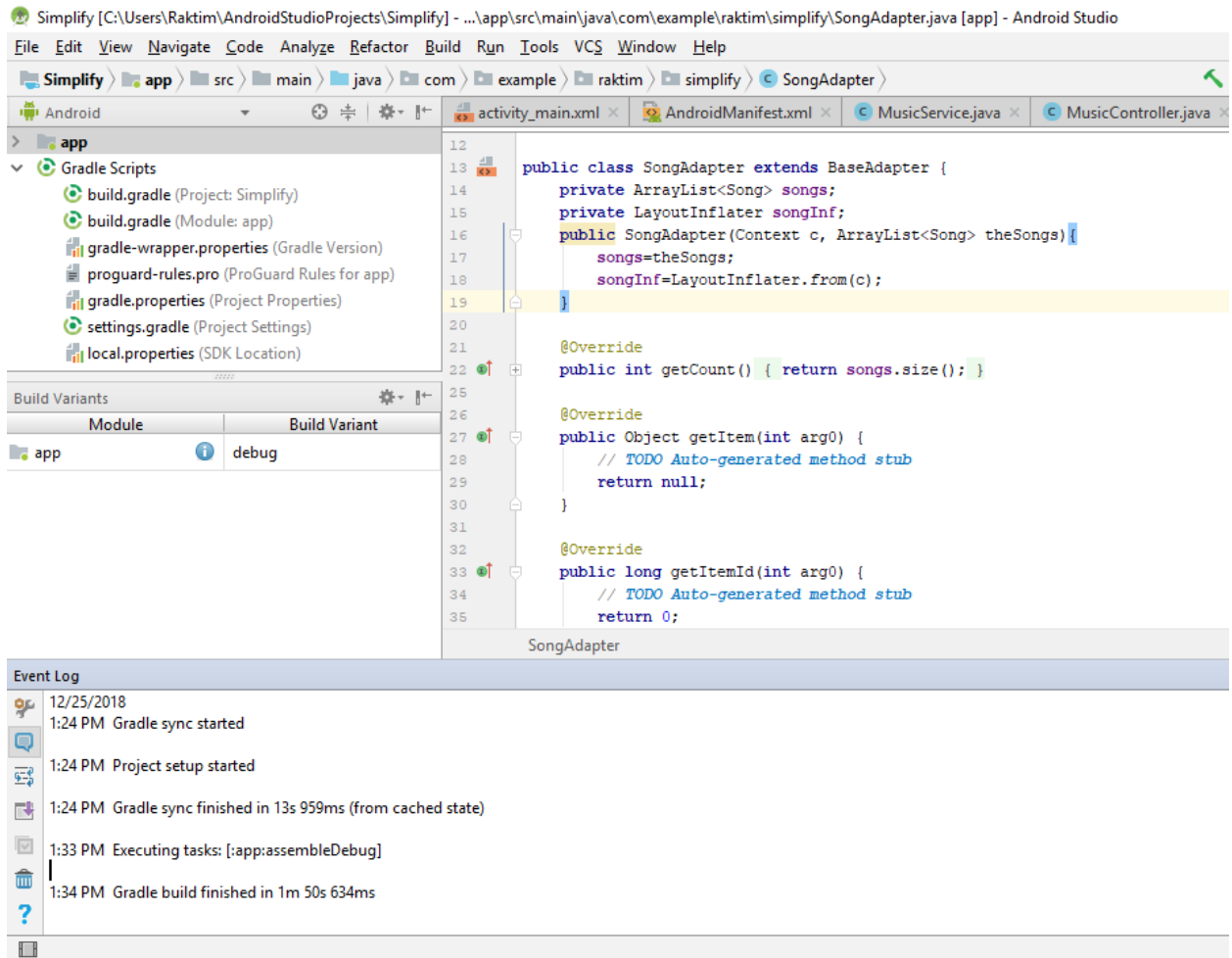
10:43 CRLF UTF-8 C

```
olify] - ...\\app\\src\\main\\java\\com\\example\\raktim\\simplify\\SongAdapter.java [app] - Android Studio
Build Run Tools VCS Window Help
com \\ example \\ raktim \\ simplify \\ SongAdapter
activity_main.xml x AndroidManifest.xml x MusicService.java x MusicController.java x MainActivity.java x main.xml x SongAdapt

12
13 public class SongAdapter extends BaseAdapter {
14     private ArrayList<Song> songs;
15     private LayoutInflater songInf;
16     public SongAdapter(Context c, ArrayList<Song> theSongs){
17         songs=theSongs;
18         songInf=LayoutInflater.from(c);
19     }
20
21     @Override
22     public int getCount() { return songs.size(); }
23
24
25
26     @Override
27     public Object getItem(int arg0) {
28         // TODO Auto-generated method stub
29         return null;
30     }
31
32     @Override
33     public long getItemId(int arg0) {
34         // TODO Auto-generated method stub
35         return 0;
36     }
37
38     @Override
39     public View getView(int position, View convertView, ViewGroup parent) {
40         //map to song layout
41         LinearLayout songLay = (LinearLayout)songInf.inflate
42             (R.layout.song, parent, attachToRoot: false);
43         //get title and artist views
44         TextView songView = (TextView)songLay.findViewById(R.id.song_title);
45         TextView artistView = (TextView)songLay.findViewById(R.id.song_artist);
46         //get song using position
47         Song currSong = songs.get(position);

```

And This has been appear after build this application



We can see ,no error is here.

And this is the final application after run and build the code. given below:

1:58 PM

4G 94

Simplify



17_prishtha_(সতেরো_পৃষ্ঠা)_by_Ashes
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**A._R._Rahman,"Jiya_Jale"_(Dil_Se):_Berkl
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Aaj_Jaane_Ki_Zid_Na_Karo_Arijit_Singh
<unknown>

**Aaoge_Jab_Tum_Full_Song_|
_Jab_We_Met_|
_Kareena__Kapoor,_Shahid_Kapoor**
<unknown>

**Adit_Feat._Elita_and_Mahadi-_Hridoy_(Ver
sion_1)**
<unknown>

**Alga_korogo_khopar_badhon_(Nazrul_sho
ngeet)_-_Pulak.avi**
<unknown>

Aqua_-_Barbie_Girl
<unknown>

Arnob-_tomar_jonno

This is a team project so we work together but a we did some specific portion of this application individually such as;

Project managing: Ruhel Ahmed Raktim

UI design planning: Md Mamun Ali

UI design implementation: Sarfaraj Rahman

Java Programmer: Md Zahirul haque

Usability and Features handling: Daniel

Conclusion: We tried our best to implement this project. And successfully we had run it . we find many bugs here and we solve it ourselves. This is such a big opportunity to create a software. And we will definitely work on it to update our own software