

Media Player

Activitymain.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    tools:context=".MainActivity"
    android:background="#7712"
    android:orientation="vertical">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Astronomia"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        android:layout_margin="30dp"
        android:fontFamily="cursive"
        android:textSize="30dp"
        android:id="@+id/songname"/>

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:text="Play"
        android:id="@+id/play"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:text="Pause"
        android:id="@+id/pause"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:text="Forward"
```

```

        android:id="@+id/forward"
    />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:text="Rewind"
        android:id="@+id/rewind"
    />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:text="Stop"
        android:id="@+id/stop"
    />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:text="Restart"
        android:id="@+id/restart"
    />

```

```
</LinearLayout>
```

MainActivity.java

```

package com.example.mediaplayer;

import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Button play, forward, rewind, pause, stop, reset;
    MediaPlayer mediaPlayer ;
    int starttime = 0 ; // starttime is 0s
    int stoptime = 0; // stoptime is 0s by default

```

```

int forwardtime = 5000 ; // 5s for forward
int backwardtime = 5000 ; // 5s for backwardtime

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

    play = findViewById(R.id.play);
    forward = findViewById(R.id.forward);
    rewind = findViewById(R.id.rewind);
    pause = findViewById(R.id.pause);
    stop = findViewById(R.id.stop);
    reset = findViewById(R.id.restart);
    play.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            mediaPlayer = MediaPlayer.create(MainActivity.this,
R.raw.astronomia) ;
            Toast.makeText(MainActivity.this, "playing",
Toast.LENGTH_SHORT).show();
            mediaPlayer.start();
        }
    });
    pause.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Toast.makeText(MainActivity.this, "pause",
Toast.LENGTH_SHORT).show();
            mediaPlayer.pause();
        }
    });
    stop.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Toast.makeText(MainActivity.this, "Stop",
Toast.LENGTH_SHORT).show();
            mediaPlayer.stop();
        }
    });
    reset.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Toast.makeText(MainActivity.this, "Resting",
Toast.LENGTH_SHORT).show();
            mediaPlayer.seekTo(starttime);
            mediaPlayer.start();
        }
    });
}

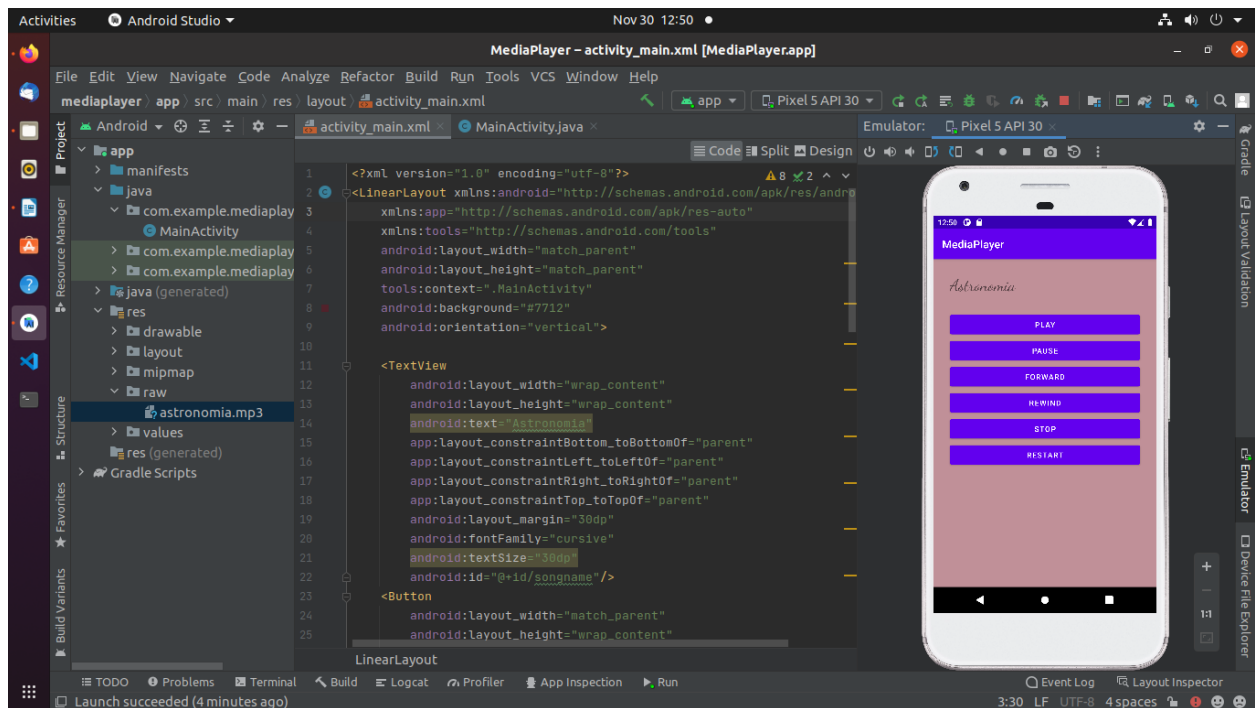
```

```

        forward.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Toast.makeText(MainActivity.this, "Forward",
                    Toast.LENGTH_SHORT).show();
                int currentpos = mediaPlayer.getCurrentPosition();
                if((currentpos+forwardtime) <= (stopttime =
                    mediaPlayer.getDuration())){
                    mediaPlayer.seekTo(currentpos+forwardtime);
                }
            }
        });

        rewind.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Toast.makeText(MainActivity.this, "Rewind",
                    Toast.LENGTH_SHORT).show();
                int currentpos = mediaPlayer.getCurrentPosition();
                if((currentpos-backwardtime) >= starttime)
                {
                    mediaPlayer.seekTo(currentpos-backwardtime);
                }
            }
        });
    }
}

```



ListView

Activitymain.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    tools:context=".MainActivity">

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

</LinearLayout>
```

Mainactivity.java

```
package com.example.listview1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    ListView myList;
    String countryList[];

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        myList = findViewById(R.id.list);
        countryList = getResources().getStringArray(R.array.classmates);
        ArrayAdapter<String> myAdapter = new
        ArrayAdapter<String>(this, R.layout.textview_layout, countryList);
        myList.setAdapter(myAdapter);
        myList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

```

        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int
i, long l) {
            Toast.makeText(MainActivity.this, "You have clicked"
+adapterView.getItemAtPosition(i),
Toast.LENGTH_SHORT).show();
        }
    });
}
}

```

Textview layout.xml

```

<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match parent"
    android:layout_height="match parent"
    android:text="Content"
    android:textSize="40dp">

</TextView>

```

Strings.xml

```

<resources>
    <string name="app_name">ListView1</string>
    <string-array name="classmates">
        <item>Nirmal</item>
        <item>Boss</item>
        <item>Rodman</item>
        <item>Raja</item>
    </string-array>
</resources>

```

