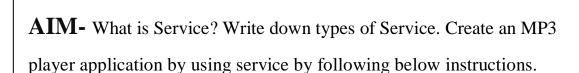
2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT

Practical: 6



- 1. Create MainActivity and design according to shown in below image.
- 2. Create Service Class and implement MediaPlayer Object.

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Activity_main.xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">
  <androidx.core.widget.NestedScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent">
    <androidx.constraintlayout.widget.ConstraintLayout
       android:layout_width="match_parent"
      android:layout_height="match_parent">
       <TextView
         android:id="@+id/textView"
         android:layout width="wrap content"
         android:layout_height="wrap_content"
         android:layout marginTop="25dp"
         android:text="MP3 Player"
         android:textSize="20sp"
         app:layout_constraintEnd_toEndOf="parent"
         app:layout_constraintStart_toStartOf="parent"
         app:layout_constraintTop_toTopOf="parent" />
       <com.google.android.material.card.MaterialCardView</p>
         android:id="@+id/materialCardView"
         android:layout_width="match_parent"
         android:layout height="400dp"
         android:layout_marginTop="15dp"
         android:layout marginHorizontal="10dp"
         app:cardCornerRadius="20dp"
         app:cardElevation="20dp"
         app:layout_constraintStart_toStartOf="parent"
         app:layout_constraintTop_toBottomOf="@+id/textView">
         <ImageView
           android:id="@+id/imageView"
           android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
    android:scaleType="fitXY"
    app:srcCompat="@drawable/image" />
</com.google.android.material.card.MaterialCardView>
<com.google.android.material.card.MaterialCardView</p>
  android:layout_width="match_parent"
  android:layout_height="200dp"
  app:cardElevation="20dp"
  app:cardCornerRadius="20dp"
  android:padding="10dp"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@id/materialCardView"
  android:layout_marginTop="25dp"
  android:layout_marginHorizontal="10dp">
  <androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="15dp">
    <TextView
      android:id="@+id/textView2"
      android:layout width="wrap content"
      android:layout_height="wrap_content"
      android:text="Music"
      android:textSize="24sp"
      android:textStyle="bold"
      app:layout_constraintStart_toStartOf="parent"
      app:layout_constraintTop_toTopOf="parent" />
    <com.google.android.material.floatingactionbutton.FloatingActionButton</p>
      android:id="@+id/stop button"
      android:layout_width="wrap_content"
      android:layout height="wrap content"
      android:layout_gravity="center"
      android:backgroundTint="#71706E"
      app:borderWidth="0dp"
      app:elevation="50dp"
      app:fabSize="mini"
      app:layout_constraintBottom_toBottomOf="parent"
      app:layout_constraintEnd_toEndOf="parent"
      app:layout_constraintHorizontal_bias="0.5"
      app:layout constraintStart toEndOf="@+id/next button"
      app:layout constraintTop toTopOf="parent"
      app:srcCompat="@drawable/baseline_stop_24"
      app:tint="@color/white"/>
```

```
<com.google.android.material.floatingactionbutton.FloatingActionButton</p>
  android:id="@+id/next button"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_gravity="center"
  android:backgroundTint="#71706E"
  app:borderWidth="0dp"
  app:elevation="50dp"
  app:fabSize="auto"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout constraintEnd toStartOf="@+id/stop button"
  app:layout_constraintHorizontal_bias="0.5"
  app:layout_constraintStart_toEndOf="@+id/play_button"
  app:layout_constraintTop_toTopOf="parent"
  app:srcCompat="@drawable/baseline_skip_next_24"
  app:tint="@color/white"/>
<com.google.android.material.floatingactionbutton.FloatingActionButton</p>
  android:id="@+id/play_button"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout_gravity="center"
  android:backgroundTint="#c30000"
  app:borderWidth="0dp"
  app:elevation="50dp"
  app:fabCustomSize="@android:dimen/notification large icon height"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toStartOf="@+id/next_button"
  app:layout constraintHorizontal bias="0.5"
  app:layout_constraintStart_toEndOf="@+id/previous_button"
  app:layout constraintTop toTopOf="parent"
  app:srcCompat="@drawable/baseline play arrow 24"
  app:tint="@color/white"/>
<com.google.android.material.floatingactionbutton.FloatingActionButton
  android:id="@+id/previous button"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout gravity="center"
  android:backgroundTint="#71706E"
  app:borderWidth="0dp"
  app:elevation="50dp"
  app:fabSize="auto"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintEnd_toStartOf="@+id/play_button"
  app:layout constraintHorizontal bias="0.5"
```

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```
app:layout_constraintStart_toEndOf="@+id/shuffle_button"
             app:layout constraintTop toTopOf="parent"
             app:srcCompat="@drawable/baseline_skip_previous_24"
             app:tint="@color/white"/>
           <com.google.android.material.floatingactionbutton.FloatingActionButton</p>
             android:id="@+id/shuffle_button"
             android:layout_width="wrap_content"
             android:layout_height="wrap_content"
             android:layout gravity="center"
             android:backgroundTint="#71706E"
             app:borderWidth="0dp"
             app:elevation="50dp"
             app:fabSize="mini"
             app:layout_constraintBottom_toBottomOf="parent"
             app:layout_constraintEnd_toStartOf="@+id/previous_button"
             app:layout_constraintHorizontal_bias="0.5"
             app:layout_constraintStart_toStartOf="parent"
             app:layout_constraintTop_toTopOf="parent"
             app:srcCompat="@drawable/baseline_shuffle_24"
             app:tint="@color/white"/>
         </androidx.constraintlayout.widget.ConstraintLayout>
      </com.google.android.material.card.MaterialCardView>
    </androidx.constraintlayout.widget.ConstraintLayout>
  </androidx.core.widget.NestedScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.kt:-

```
package com.example.mad_practical_6_21012021012

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import com.google.android.material.floatingactionbutton.FloatingActionButton

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
```

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```
super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
    val start : FloatingActionButton = findViewById(R.id.play_button)
    start.setOnClickListener {
       play()
    }
    val stop : FloatingActionButton = findViewById(R.id.stop_button)
    stop.setOnClickListener {
       pause()
    }
  }
  fun play(){
Intent(applicationContext,MyService::class.java).putExtra(MyService.PLAYERCONSTANT,"abc").appl
y { startService(this) }
  fun pause(){
Intent(applicationContext,MyService::class.java).putExtra(MyService.PLAYERCONSTANT,"xyz").app
ly { stopService(this) }
  }
```

MyService.kt:-

```
package com.example.mad_practical_6_21012021012

import android.app.Service
import android.content.Intent
import android.media.MediaPlayer
import android.os.IBinder

class MyService : Service() {

    companion object {

        val PLAYERCONSTANT = "PLAY/PAUSE"
    }

    override fun onBind(intent: Intent): IBinder {

        TODO("Return the communication channel to the service.")
    }
```

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```
lateinit var player : MediaPlayer
override fun onStartCommand(intent: Intent?, flags: Int, startId: Int): Int {
  if (!this::player.isInitialized) {
    player = MediaPlayer.create(this,R.raw.song)
  if (intent != null) {
     val command = intent.getStringExtra(PLAYERCONSTANT)
     if (!player.isPlaying) {
       player.start()
     }
     else {
       player.pause()
  else {
     player.stop()
  return START_STICKY
override fun onDestroy() {
  player.stop()
  super.onDestroy()
```

