

## **Practical: 6**

**Study:** Service, Types of Service, Drawable Icon Add in project, MediaPlayer, Add Raw folder, Add mp3 song in raw folder

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**AIM:** What is Service? Write down types of Service. Create an MP3 player application by using service by following below instructions.

1. Create MainActivity and design according to shown in below image.
2. Create Service Class and implement [MediaPlayer](#) Object

### Activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.LinearLayoutCompat
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:orientation="vertical"
tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:text="MP3 Player"
        android:textSize="30dp"
        android:alpha="0.5"
        app:layout_constraintBottom_toBottomOf="parent"
        android:gravity="center"/>

    <ImageView
        android:background="@drawable/rounded"
        android:clipToOutline="true"
        android:id="@+id/imageView"
        android:layout_width="350dp"
        android:layout_height="350dp"
        app:srcCompat="@drawable/img"
        android:layout_gravity="center"
        android:layout_marginTop="20dp"
    />

    <androidx.cardview.widget.CardView
        android:layout_width="350dp"
```

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```
        android:layout_height="wrap_content"
        android:background="@drawable/rounded"
        android:layout_gravity="center"
        android:layout_marginTop="50dp">
<LinearLayout
    android:layout_width="match_parent"
    android:clipToOutline="true"
    android:background="@drawable/rounded"
    android:backgroundTint="#51000000"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingHorizontal="15dp"
    android:paddingVertical="25dp"
    >
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Lofi chill Music.."
        android:textSize="20dp"
        android:gravity="center"
    />
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="20dp"
        android:gravity="center"
    >

        <ImageView
            android:layout_width="45dp"
            android:layout_height="45dp"
            android:src="@drawable/shuffle_icon"
            android:backgroundTint="#505050"
            android:padding="5dp"
            android:background="@drawable/rounded"
        />
        <Space
            android:layout_width="0dp"
            android:layout_height="1dp"
            android:layout_weight="1" >
```

```
</Space>
<ImageView
    android:layout_width="55dp"
    android:layout_height="55dp"
    android:src="@drawable/previous_icon"
    android:backgroundTint="#505050"
    android:padding="5dp"
    android:background="@drawable/rounded"
/>
<Space
    android:layout_width="0dp"
    android:layout_height="1dp"
    android:layout_weight="1" >
</Space>
<ImageView
    android:layout_width="70dp"
    android:layout_height="70dp"
    android:src="@drawable/play_arrow"
    android:id="@+id/Play_Button"
    android:backgroundTint="#79371f"
    android:padding="5dp"
    android:background="@drawable/rounded"
/>
<Space
    android:layout_width="0dp"
    android:layout_height="1dp"
    android:layout_weight="1" >
</Space>
<ImageView
    android:layout_width="55dp"
    android:layout_height="55dp"
    android:src="@drawable/next_icon"
    android:backgroundTint="#505050"
    android:padding="5dp"
    android:background="@drawable/rounded"
/>
<Space
    android:layout_width="0dp"
    android:layout_height="1dp"
    android:layout_weight="1" >
</Space>
```

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```
<ImageView
    android:layout_width="45dp"
    android:layout_height="45dp"
    android:id="@+id/Pause_Button"
    android:src="@drawable/stop_icon"
    android:backgroundTint="#505050"
    android:padding="5dp"
    android:background="@drawable/rounded"
/>
```

```
</LinearLayout>
```

```
</LinearLayout>
</androidx.cardview.widget.CardView>
```

```
</androidx.appcompat.widget.LinearLayoutCompat>
```

### **MainActivity.kt:**

```
Package
com.example.mad_practical6_2101011088
import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import
com.google.android.material.floatingactionbutton.FloatingActionBu
tton
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
```

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```
        val playButton: FloatingActionButton =
findViewById(R.id.playbtn)
        val stopButton: FloatingActionButton =
findViewById(R.id.stopbtn)
        playButton.setOnClickListener() {
            startMusic()
        }
        stopButton.setOnClickListener() {
            stopMusic()
        }
    }
    fun startMusic() {
Intent(applicationContext, MyService::class.java).putExtra(MyService.PLAYERKEY, MyService.PLAYERVALUE).apply {
            startService(this)
        }
    }
    fun stopMusic() {
Intent(applicationContext, MyService::class.java).putExtra(MyService.PLAYERKEY, MyService.PLAYERVALUE).apply {
            stopService(this)
        }
    }
}
```

### MyService.kt:

```
package
com.example.mad_practical6_21012011088
import android.app.Service
import android.content.Intent
import android.media.MediaPlayer
import android.os.IBinder
class MyService : Service() {
    lateinit var player: MediaPlayer
    companion object {
        val PLAYERKEY="Service"
        val PLAYERVALUE="play/pause"
    }
    override fun onBind(intent: Intent): IBinder {
        TODO("Return the communication channel to the service.")
    }
    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 dataValue=intent.getStringExtra(PLAYERKEY)
```

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```
        if (dataValue== PLAYERVERVALUE){
            if(!player.isPlaying){player.start()}
            }
            else{
                player.pause()
            }
        }
    }
    else{
        player.stop()
    }
    return START_STICKY
}
override fun onDestroy() {
    player.stop()
    super.onDestroy()
}
}
```

**OUTPUT:-**

