[2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT]

Practical: 7

AIM- Create an Video player application by following below instructions.

1. Create MainActivity and YoutubeActivity with landscape orientation.

2. MainActivity should have VideoView and YoutubeActivity should have WebView.

3. There should be Floating Button on both Activities according to below image.

After pressing that button, it will switch from ne activity to another activity by using

explicit intent.

4. Add Internet Permssion in Manifest file.

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Activity_main.xml :-

```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">

<VideoView
    android:id="@+id/video"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

</VideoView>
    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/floatingActionButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:clickable="true"
        android:layout_marginEnd="20dp"
        android:layout_marginBottom="20dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:srcCompat="@drawable/baseline_switch_video_24" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_Youtube.xml

```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=".YoutubeActivity">

 <WebView
     android:id="@+id/YtVideo"
     android:layout_width="match_parent"
     android:layout_height="match_parent">
    </WebView>
```

```
    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/floatingActionButton2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:clickable="true"
        android:layout_marginEnd="20dp"
        android:layout_marginBottom="20dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:srcCompat="@drawable/baseline_switch_video_24" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.kt :-

```kotlin
package com.example.mad_practical_7_21012021031

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.content.Intent
import android.net.Uri
import android.widget.MediaController
import android.widget.VideoView
import com.google.android.material.floatingactionbutton.FloatingActionButton


class MainActivity : AppCompatActivity()
{
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val myVideoView: VideoView = findViewById(R.id.video)
        val mediaController = MediaController(this)
        val uri: Uri = Uri.parse("android.resource://" + packageName + "/" + R.raw.thestoryoflight)
        myVideoView.setMediaController(mediaController)
        mediaController.setAnchorView(myVideoView)
        myVideoView.setVideoURI(uri)
        myVideoView.requestFocus()
        myVideoView.start()

        val button = findViewById<FloatingActionButton>(R.id.floatingActionButton)
        button.setOnClickListener {
            Intent(this,YoutubeActivity::class.java).also { startActivity(it) }
```

```
    }
  }
}
```

YoutubeActivity.kt :-

package com.example.mad_practical_7_21012021031

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.webkit.WebSettings
import android.webkit.WebView
import com.google.android.material.floatingactionbutton.FloatingActionButton

```
class YoutubeActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_youtube)

    val youtubeId = "fJn9B64Znrk"
    val youtubeWebView : WebView = findViewById(R.id.YtVideo)
    val webSettings : WebSettings = youtubeWebView.settings
    webSettings.javaScriptEnabled = true
    webSettings.loadWithOverviewMode = true
    webSettings.useWideViewPort = true
    youtubeWebView.loadUrl("https://www.youtube.com/embed/$youtubeId")

    val button = findViewById<FloatingActionButton>(R.id.floatingActionButton2)
    button.setOnClickListener {
      Intent(this,MainActivity::class.java).apply { startActivity(this) }
    }
  }
}
```

AndroidManifest.xml :-

<uses-permission android:name="android.permission.INTERNET"/>

Output :-