**[ 2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT]**

Practical: 7



**AIM - Create Video player and Youtube player application by following below instructions.**

1. Create MainActivity and YoutubeActivity with landscape orientation.
2. MainActivity should have VideoView and YoutubeActivity should have

WebView.

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

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

using explicit intent.

1. Add Internet Permssion in Manifest file.

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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">

<VideoView

android:id="@+id/videoview"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="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\_image\_24" />

</androidx.constraintlayout.widget.ConstraintLayout>

**activity\_youtube.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">

<com.google.android.material.floatingactionbutton.FloatingActionButton

android:id="@+id/floatingActionButton2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:clickable="true"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="1.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="@+id/webView"

app:layout\_constraintVertical\_bias="1.0"

app:srcCompat="@drawable/baseline\_image\_24" />

<WebView

android:id="@+id/webView"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.0">

</WebView>

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.kt :**

package com.example.mad\_practical\_7\_21012021003  
  
import android.content.Intent  
import android.net.Uri  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
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.videoview)  
 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).apply **{** startActivity(this) **}  
 }** }  
}

**YoutubeActivity.kt :**

package com.example.mad\_practical\_7\_21012021003  
  
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.*webView*)  
 val webSettings: WebSettings = youtubeWebView.*settings* webSettings.*javaScriptEnabled* = true  
 webSettings.*loadWithOverviewMode* = true  
 webSettings.*useWideViewPort* = true  
 youtubeWebView.loadUrl("https://www.youtube.com/embed/$youtubeId")  
  
 val changeButton: FloatingActionButton = findViewById(R.id.*floatingActionButton2*)  
  
 changeButton.setOnClickListener **{** val intent = Intent(this@YoutubeActivity, MainActivity::class.*java*)  
 startActivity(intent)  
 **}** }  
}

