**[ 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
3. 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.
4. Add Internet Permssion in Manifest file

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**Department of Computer**

**Engineering/Information Technology**

**Practical-7**

**Study:**VideoView, WebView, Orientation of Activity,

**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="wrap\_content"

android:layout\_height="wrap\_content"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintBottom\_toBottomOf="parent">

</VideoView>

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

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btn"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

android:layout\_margin="20dp"

android:src="@drawable/baseline\_ondemand\_video\_24"

android:backgroundTint="@color/white">

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

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.kt:-**

package com.example.mad\_7\_22012022009

import android.app.Activity

import android.content.Intent

import android.net.Uri

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.view.inputmethod.InputBinding

import android.webkit.WebSettings

import android.widget.MediaController

import androidx.core.view.WindowCompat

import com.example.mad\_7\_22012022009.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {

private lateinit var binding: ActivityMainBinding

override fun onCreate(savedInstanceState: Bundle?) {

WindowCompat.setDecorFitsSystemWindows(window,false)

super.onCreate(savedInstanceState)

binding = ActivityMainBinding.inflate(layoutInflater)

setContentView(binding.root)

initYoutubePlayer()

binding.btn.setOnClickListener {

Intent(this,MainActivity2::class.java).also { startActivity(it) }

}

}

private fun initYoutubePlayer(){

val mediaController = MediaController(this)

val uri: Uri = Uri.parse("android.resource://"+packageName+"/"+R.raw.thestoryoflight)

binding.videoView.setMediaController(mediaController)

mediaController.setAnchorView(binding.videoView)

binding.videoView.setVideoURI(uri)

binding.videoView.requestFocus()

binding.videoView.start()

}

}

**Activity\_main2.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=".MainActivity2">

<WebView

android:id="@+id/webview"

android:layout\_width="409dp"

android:layout\_height="729dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintBottom\_toBottomOf="parent"

/>

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

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btn"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

android:layout\_margin="20dp"

android:src="@drawable/baseline\_ondemand\_video\_24"

android:backgroundTint="@color/white"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity2.kt:-**

package com.example.mad\_7\_22012022009

import android.content.Intent

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.webkit.WebSettings

import androidx.core.view.WindowCompat

import com.example.mad\_7\_22012022009.databinding.ActivityMainBinding

import com.example.mad\_7\_22012022009.databinding.ActivityMain2Binding

class MainActivity2 : AppCompatActivity() {

private lateinit var binding: ActivityMain2Binding

override fun onCreate(savedInstanceState: Bundle?) {

WindowCompat.setDecorFitsSystemWindows(window,false)

super.onCreate(savedInstanceState)

binding = ActivityMain2Binding.inflate(layoutInflater)

setContentView(binding.root)

webviewert()

binding.btn.setOnClickListener {

Intent(this,MainActivity::class.java).also { startActivity(it) }

}

}

private val ytid = "watch?v=ebfV2J4lso4"

private fun webviewert(){

val webSettings: WebSettings = binding.webview.settings

webSettings.javaScriptEnabled = true

webSettings.loadWithOverviewMode = true

webSettings.useWideViewPort = true

binding.webview.loadUrl("https://m.youtube.com/$ytid")

}

}

**AndroidManifest.xml:-**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools">

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

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.MAD\_7\_22012022009"

tools:targetApi="31">

<!-- <activity-->

<!-- android:name=".MainActivity3"-->

<!-- android:exported="false" />-->

<activity

android:name=".MainActivity2"

android:exported="false" />

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**Output:**    
  