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

Practical: 6

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

Create MainActivity and YoutubeActivity with landscape orientation

MainActivity should have VideoView and YoutubeActivity should have WebView

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.

Use Material3 design and keep status bar transparent in themes.xml file

Add Internet Permssion in Manifest file

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Github Link :https://github.com/Saumil6354/MADPractical-5\_20012011124



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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/myVideoView"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

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

android:id="@+id/youtubeButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/ic\_baseline\_video\_library\_24"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintBottom\_toBottomOf="parent"

android:layout\_margin="25dp"/>

</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">

<WebView

android:id="@+id/myWebView"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

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

<TextView

android:text="Video will open in Youtube App"

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"/>

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

android:id="@+id/backButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

android:layout\_margin="25dp"

android:src="@drawable/ic\_baseline\_arrow\_back\_24"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.kt :**

package com.example.madpractical\_6\_20012011124

import android.content.Intent

import android.net.Uri

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.widget.MediaController

import com.example.madpractical\_6\_20012011124.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {

private lateinit var binding : ActivityMainBinding

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

binding = ActivityMainBinding.inflate(layoutInflater)

setContentView(binding.root)

initVideoPlayer()

binding.youtubeButton.setOnClickListener {

Intent(this@MainActivity,YoutubeActivity::class.java).apply{

startActivity(this)

}

}

}

private fun initVideoPlayer(){

val mediaController = MediaController(this)

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

binding.myVideoView.setMediaController(mediaController)

mediaController.setAnchorView(binding.myVideoView)

binding.myVideoView.setVideoURI(uri)

binding.myVideoView.requestFocus()

binding.myVideoView.start()

}

}

**YoutubeActivity.kt :**

package com.example.madpractical\_6\_20012011124

import android.content.Intent

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.webkit.WebSettings

import com.example.madpractical\_6\_20012011124.databinding.ActivityYoutubeBinding

class YoutubeActivity : AppCompatActivity() {

private lateinit var binding : ActivityYoutubeBinding

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

binding = ActivityYoutubeBinding.inflate(layoutInflater)

setContentView(binding.root)

initYoutubeVideo()

binding.backButton.setOnClickListener {

Intent(this@YoutubeActivity,MainActivity::class.java).apply {

startActivity(this)

}

}

}

private val youtubeID = "Qw4w9WgXcQ"

private fun initYoutubeVideo(){

val webSettings: WebSettings = binding.myWebView.settings

webSettings.javaScriptEnabled = true

webSettings.loadWithOverviewMode = true

webSettings.useWideViewPort = true

binding.myWebView.loadUrl("https://youtu.be/dQw4w9WgXcQ")

}

}

Output :