

[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 Permission in Manifest file

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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
```

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```
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"
```

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```

        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"

```

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```

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:supportRtl="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:

