

Assignment 3(YouTube video)

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Codes:

MainActivity

```
package com.example.yotube_20bce10370

import android.os.Bundle
import androidx.activity.ComponentActivity import
androidx.activity.compose.setContent import
androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface import
import androidx.compose.material3.Text import
import androidx.compose.runtime.Composable import
import androidx.compose.ui.Modifier
import androidx.compose.ui.platform.LocalContext import
import androidx.compose.ui.tooling.preview.Preview import
import androidx.compose.ui.viewinterop.AndroidView
import com.example.yotube_20bce10370.ui.theme.Yotube_20BCE10370Theme
import com.pierfrancescosoffritti.androidyoutubeplayer.core.player.YouTubePlayer import
com.pierfrancescosoffritti.androidyoutubeplayer.core.player.listeners.AbstractYouTubePl
ayerListener import
com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
super.onCreate(savedInstanceState)          setContent {
        Yotube_20BCE10370Theme {
            // A surface container using the 'background' color from the theme
Surface(
                modifier = Modifier.fillMaxSize(),
                color = MaterialTheme.colorScheme.background
            ) {
                YoutubeScreen(videoId = "iJtaDCraCfk")
            }
        }
    }
}

@Composable fun
YoutubeScreen(        videoId:
String) {
    AndroidView(factory = {
        var view = YouTubePlayerView(it)
        val fragment = view.addYouTubePlayerListener(
object : AbstractYouTubePlayerListener() {
            override fun onReady(youtubePlayer: YouTubePlayer) {
super.onReady(youtubePlayer)
                youtubePlayer.loadVideo(videoId, 0f)
            }
        }
    )
        view
    })
}
```

```
@Composable
fun Greeting(name: String, modifier: Modifier = Modifier) {
    Text(
        text = "Hello $name!",
        modifier = modifier
    )
}

@Preview(showBackground = true)
@Composable
fun GreetingPreview() {
    Youtube_20BCE10370Theme {
        Greeting("Android")
    }
}
```

Gradle

```
plugins {
    id 'com.android.application'
    id 'org.jetbrains.kotlin.android'
}
android {
    namespace 'com.example.youtube_20bce10370'
    compileSdk 33

    defaultConfig {
        applicationId
"com.example.youtube_20bce10370"        minSdk 24
        targetSdk 33        versionCode 1
        versionName "1.0"

        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }
    vectorDrawables {
        useSupportLibrary true
    }
}
buildTypes {
    release {
        minifyEnabled false
        proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
    }
}
compileOptions {
    sourceCompatibility JavaVersion.VERSION_1_8
    targetCompatibility JavaVersion.VERSION_1_8
}
kotlinOptions {
    jvmTarget = '1.8'
}
buildFeatures {
    compose true
}
composeOptions {
    kotlinCompilerExtensionVersion '1.3.2'
}
packagingOptions {
    resources {
        excludes += '/META-INF/{AL2.0,LGPL2.1}'
    }
}
```

```

}
dependencies {
    implementation 'androidx.core:core-ktx:1.8.0'
    implementation platform('org.jetbrains.kotlin:kotlin-bom:1.8.0')
    implementation 'androidx.lifecycle:lifecycle-runtime-ktx:2.3.1'
    implementation 'androidx.activity:activity-compose:1.5.1'
    implementation platform('androidx.compose:compose-bom:2022.10.00')
    implementation ("com.pierfrancescosoffritti.androidyoutubeplayer:core:11.1.0")
    implementation 'androidx.compose.ui:ui'
    implementation 'androidx.compose.ui:ui-graphics'
    implementation 'androidx.compose.ui:ui-tooling-preview'
    implementation 'androidx.compose.material3:material3'
    testImplementation 'junit:junit:4.13.2'
    androidTestImplementation 'androidx.test.ext:junit:1.1.5'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.5.1'
    androidTestImplementation platform('androidx.compose:compose-bom:2022.10.00')
    androidTestImplementation 'androidx.compose.ui:ui-test-junit4'
    debugImplementation 'androidx.compose.ui:ui-tooling'
    debugImplementation 'androidx.compose.ui:ui-test-manifest'
}

```

Android Manifest

```

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

    <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:supportRtl="true"
        android:theme="@style/Theme.Yotube_20BCE10370"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:label="@string/app_name"
            android:theme="@style/Theme.Yotube_20BCE10370">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>

```