

## android 🚈

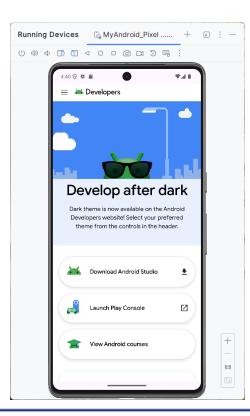


# Web Yiew Implementation







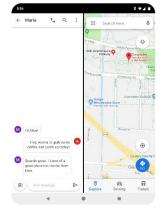




## **Lesson Objectives**

- Contents
  - Web View Implementation

















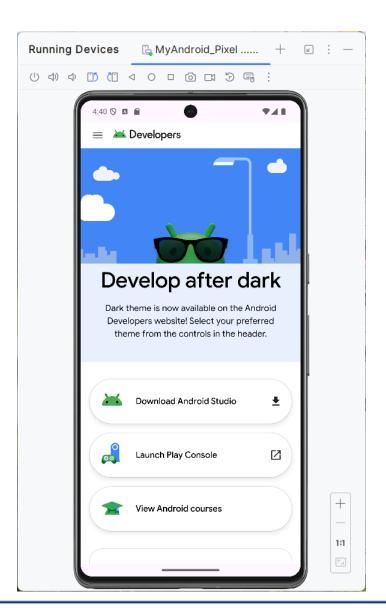
#### Web View

- Web View function
  - Display web pages





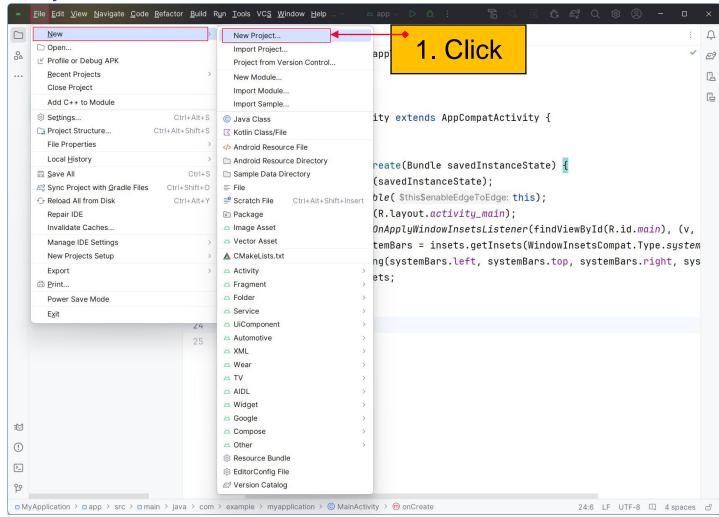






## Options Menu Implementation (1)

- Create Android Project
  - Project Name: Android\_Menu



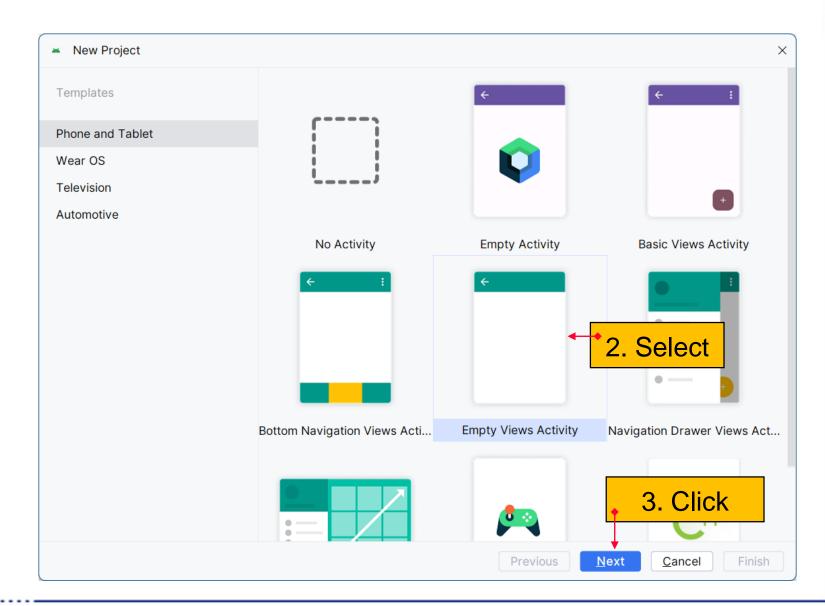








## Options Menu Implementation (2)



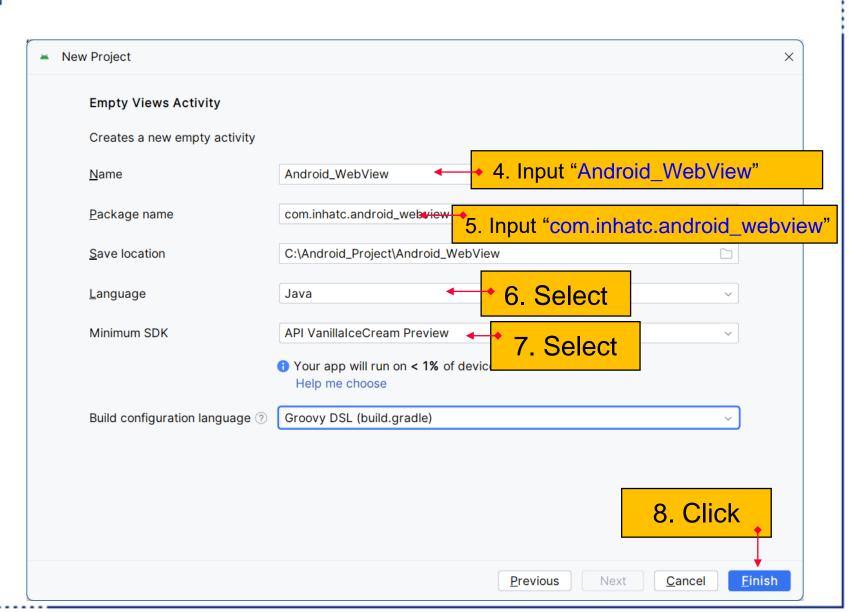








## Options Menu Implementation (3)





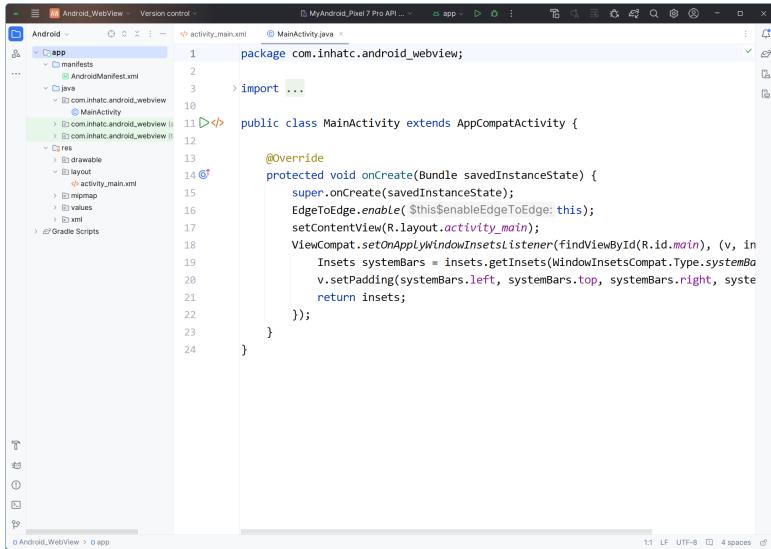






### Options Menu Implementation (4)

Android Project





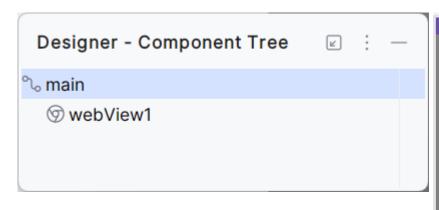






### Web View Implementation (5)









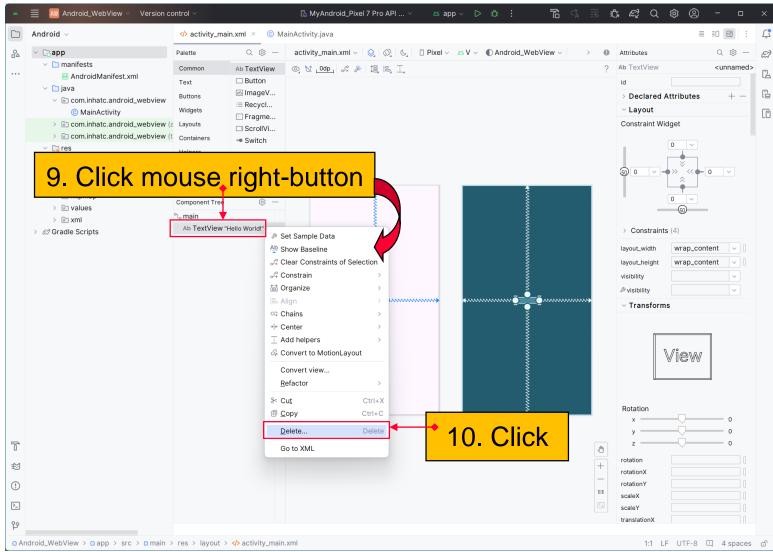






#### Web View Implementation (6)

Delete TextView





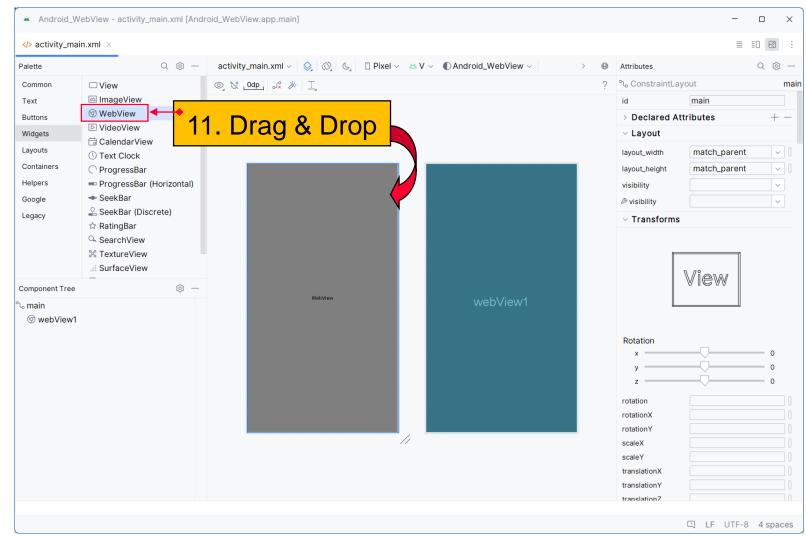






## Web View Implementation (7)

#### Design UI





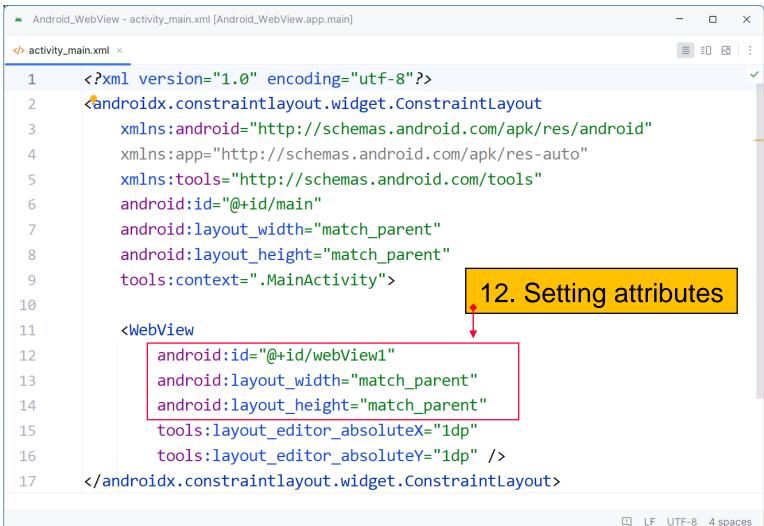






#### Web View Implementation (8)

activity\_main.xml





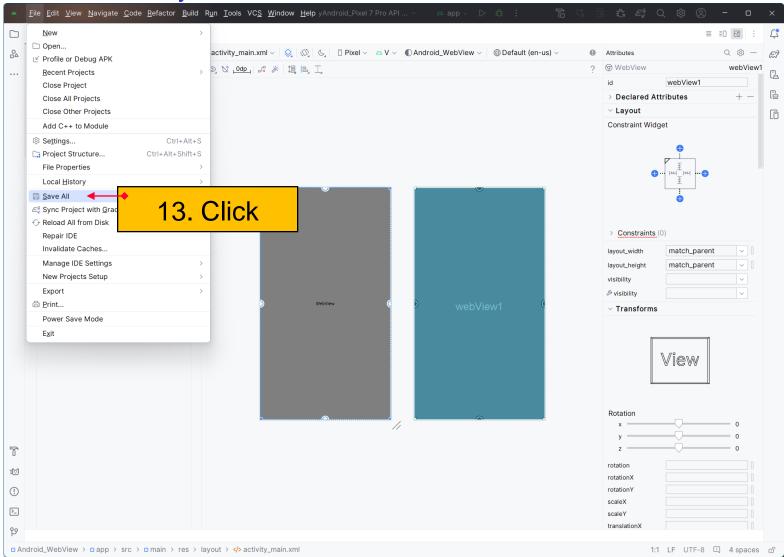






#### Web View Implementation (9)

Save activity\_main.xml











### Web View Implementation (10)

#### MainActivity.java

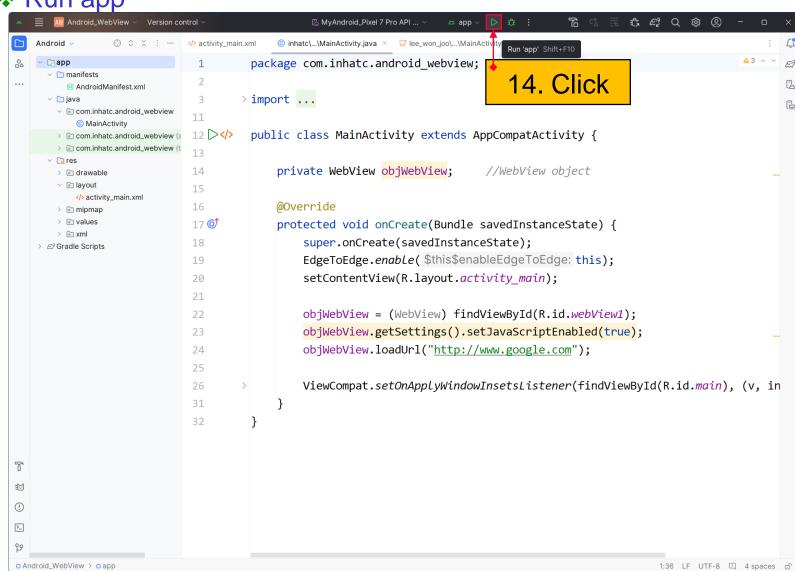
```
🔾 MainActivity.java 🗡
       package com.inhatc.lee won joo.android webview;
 1
       import android.support.v7.app.AppCompatActivity;
       import android.os.Bundle;
 4
       import android.webkit.WebView;
   <>
       public class MainActivity extends AppCompatActivity {
           private WebView objWebView;
                                             //WebView object
 9
10
11
           @Override
12 of
           protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
13
                setContentView(R.layout.activity main);
14
15
                objWebView = (WebView) findViewById(R.id.webView1);
16
                objWebView.getSettings().setJavaScriptEnabled(true);
17
                objWebView.loadUrl("http://www.google.com");
18
19
20
       }
21
```





#### Web View Implementation (11)

Run app





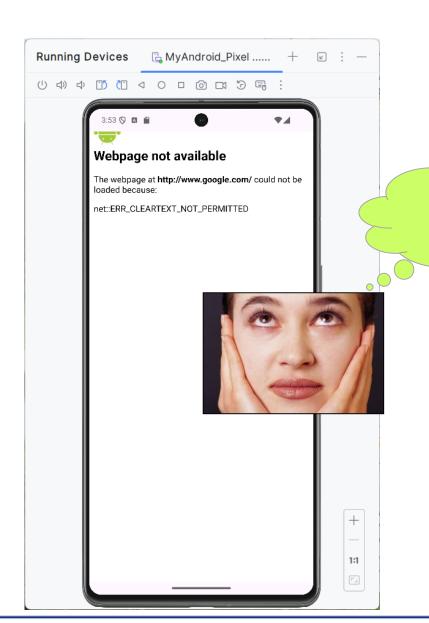






## Web View Implementation (12)

Run app



Why not?









### Web View Implementation (13)

- AndroidManifest.xm
  - Append <uses-permission>

```
    Android_WebView - AndroidManifest.xml [Android_WebView.app.main]

                                                                                     15. Coding
M AndroidManifest.xml ×
        <?xml version="1.0" encoding="utf-8"?>
        <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
            xmlns:tools="http://schemas.android.com/tools">
            <uses-permission android:name="android.permission.INTERNET"/>
            <application</pre>
                android:allowBackup="true"
                android:usesCleartextTraffic="true"
                android:dataExtractionRules="@xml/data extraction rules"
                android:fullBackupContent="@xml/backup rules"
                android:icon="@mipmap/ic launcher"
11 📥
                android:label="Android_WebView"
13
                android:roundIcon="@mipmap/ic launcher round"
                android:supportsRtl="true"
15
                android:theme="@style/Theme.Android WebView"
16
                tools:targetApi="31">
                <activity
17
                     android:name=".MainActivity"
                     android:exported="true">
                     <intent-filter>
20
                         <action android:name="android.intent.action.MAIN" />
21
22
                         <category android:name="android.intent.category.LAUNCHER" />
                     </intent-filter>
                </activity>
24
            </application>
25
        </manifest>
Text Merged Manifest
                                                                                              CRLF UTF-8 4 spaces
```









## Web View Implementation (14)

- AndroidManifest.xml
  - <uses-permission> Tag
    - ◆ Tag for application to gain access to device data
  - Format
    - <uses-permission android:name="android.permission.INTERNET" />

	Field	Comment
android.permission.	INTERNET	Internet connection
	RECEIVE_SMS	SMS message
	ACCESS_COARSE_LOCATION	Location(Cell-ID, WiFi)
	ACCESS_FINE_LOCATION	Location(GPS)



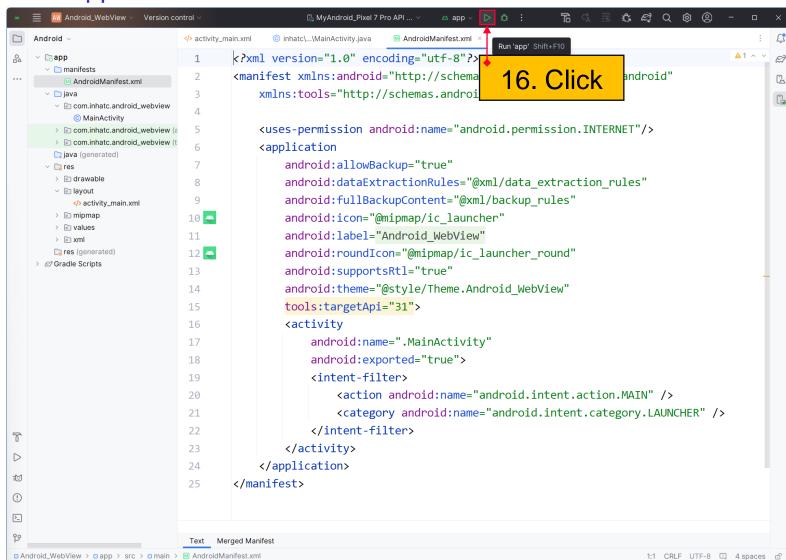






#### Web View Implementation (15)

Run app





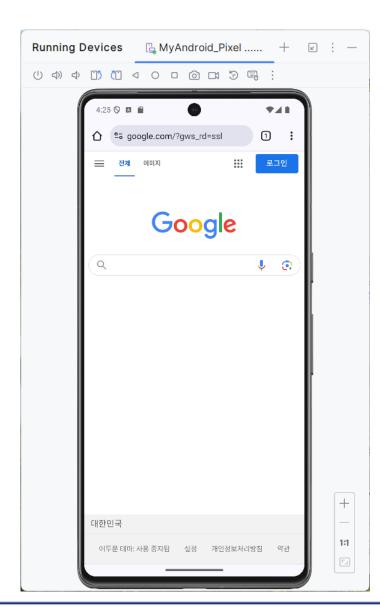






## Web View Implementation (16)



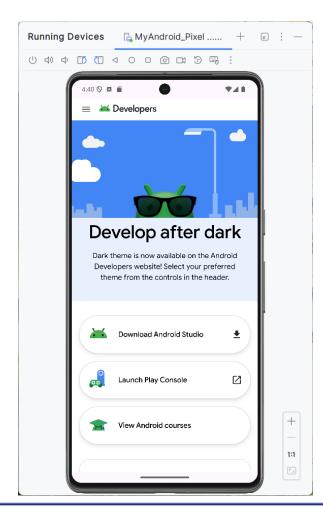






#### Practice 1: Web View Implementation

- Android\_WebView (Time : 30minutes)
  - ❖ Implement the forward / backward functions as shown below.











#### Practice 1: Web View Implementation (1)

Append Android\_WebViewClient Class

```
Android_WebView - MainActivity.java [Android_WebView.app.main]
                                                                          1. Coding
MainActivity.java
         public class MainActivity extends AppCompatActivity {
14 ></>
15
16
              private WebView objWebView;
                                               //WebView object
17
              @Override
18
19 🎯
              protected void onCreate(Bundle savedInstanceState) {
                  super.onCreate(savedInstanceState);
20
                  EdgeToEdge.enable( $this$enableEdgeToEdge: this);
21
22
                  setContentView(R.layout.activity main);
23
24
                  objWebView = (WebView) findViewById(R.id.webView1);
                  objWebView.setWebViewClient(new Android WebViewClient());
25
                  objWebView.getSettings().setJavaScriptEnabled(true);
                  objWebView.loadUrl("http://developer.android.com");
27
28
                  ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) ->
29
34
35
              private class Android WebViewClient extends WebViewClient {
36
37
                  @Override
38 6 (a) >
                  public boolean shouldOverrideUrlLoading(WebView view, String url){...}
42
                  @Override
43 6 0 >
                  public boolean shouldOverrideKeyEvent (WebView view, KeyEvent event) {...}
55
```

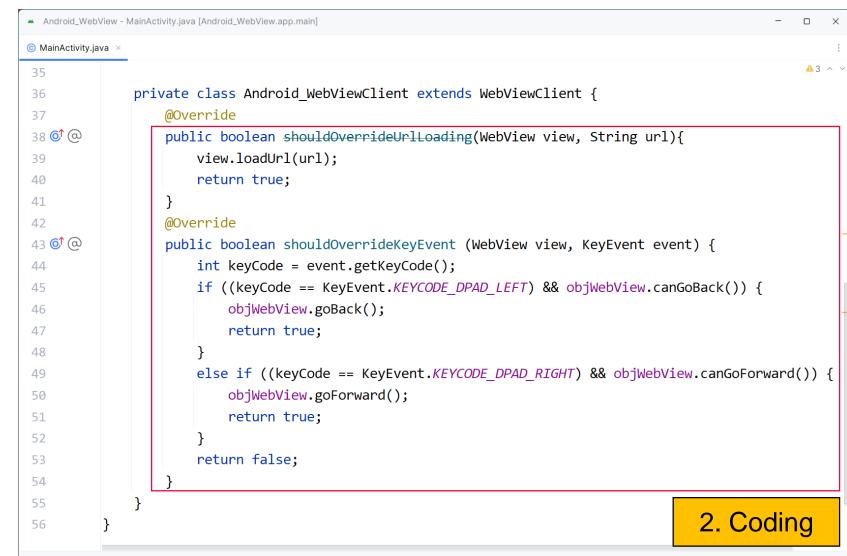








#### Practice 1: Web View Implementation (2)



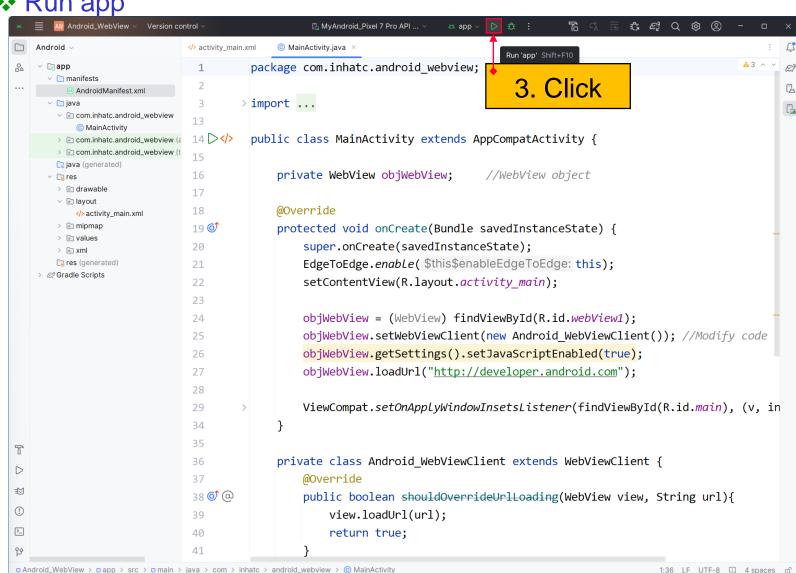


☐ LF UTF-8 4 spaces



#### Practice 1: Web View Implementation (3)

Run app





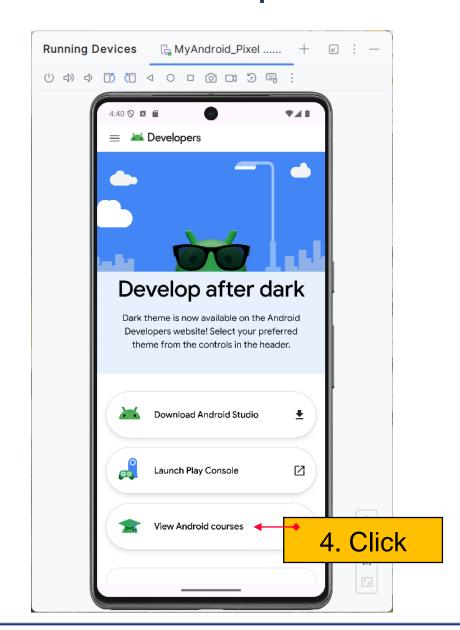






#### Practice 1: Web View Implementation (4)

Run app





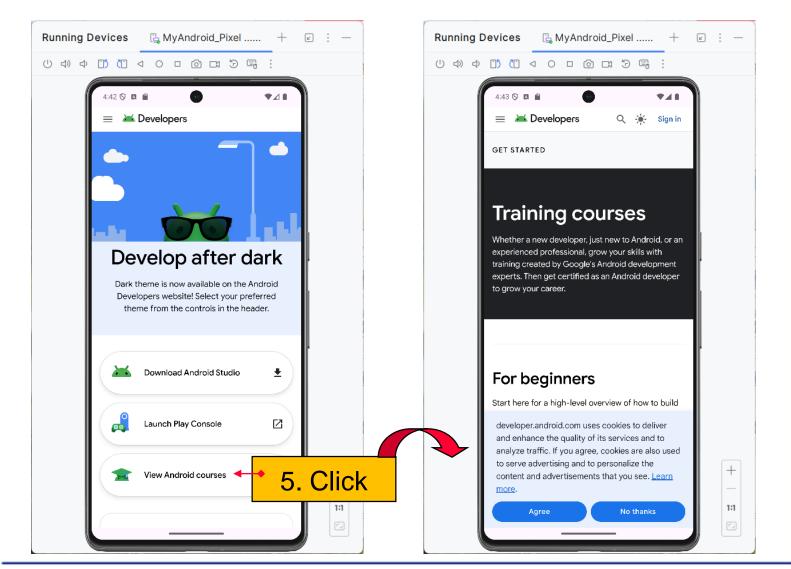






#### Practice 1: Web View Implementation (5)

#### Forward





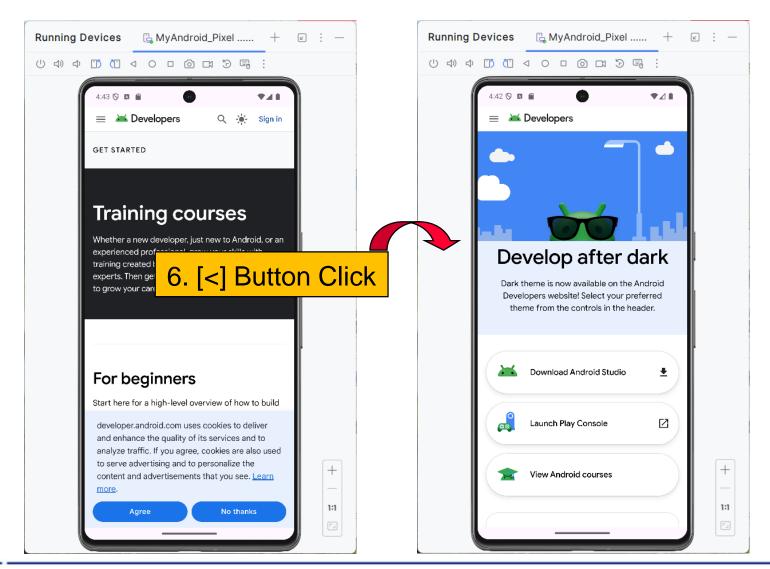






#### Practice 1: Web View Implementation (6)

#### Backward











## **Summary**

Web View Implementation











