Kotlin Android – WebView – Example

Android WebView class is used to display a web page embedded in the Android Activity. The web page could be displayed in the same Android Application, without opening a browser window.

WebView could be used in your Android Application like any other View (say TextView, Button, etc.).

To display WebView in your Android Activity

Step 1: Add permission for INTERNET in AndroidManifest.xml. Applications that make use of WebView require **INTERNET** permission. To let Android know that our application require INTERNET, include the following line in AndroidManifest.xml.

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

Step 2: Include Android WebView In layout fileYou can include following WebView snippet in Layout file to display WebView in Activity.

```
<WebView
        android:id="@+id/webView"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
```

Step 3: Load URL in WebView programmatically in Activity file.

```
webView.loadUrl("https://www.google.com/")
```

In this Example Kotlin Android Application, we shall display a WebView and load "www.google.com url".

Create a Kotlin Android Application with Empty Activity and modify the following files.

AndroidManifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.yourpackage">

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category
android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#EEE"
    tools:context=".MainActivity">

    <TextView
        android:text="Web View Example"
        android:gravity="center"
        android:padding="20sp"
        android:layout_width="match_parent"
```

```xml
        android:layout_height="wrap_content" />

    <WebView
        android:id="@+id/webView"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

</LinearLayout>
```
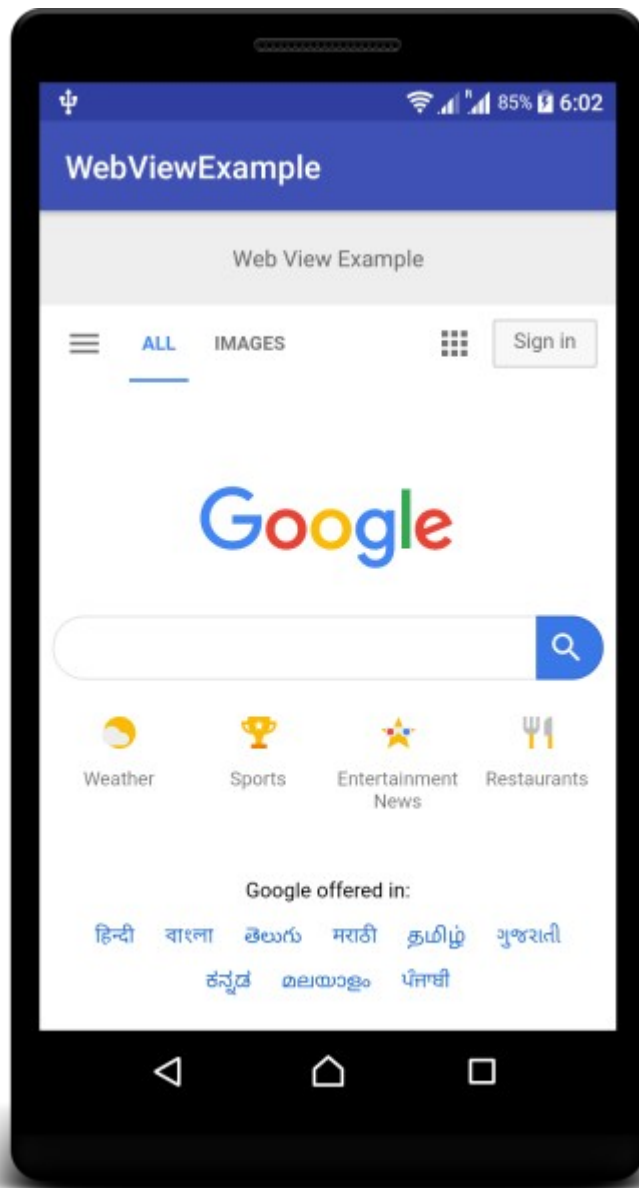
MainActivity.kt

```kotlin
package com.yourpackage

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import kotlinx.android.synthetic.main.activity_main.*

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        webView.loadUrl("https://www.google.com/")

    }
}
```

Run this Android Application, and you will get a WebView embedded in the Application as shown in the following screenshot.

NB: Web view can also be used to load HTML files