**Problem Statement:** Create an application to take input as a URL and display the respective WebView in the same activity.

**AndroidManifest.xml Manifest File:**

<?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"

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:supportsRtl="true"

android:theme="@style/Theme.WebViewInputURL"

tools:targetApi="31">

<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>

**activity\_main.xml Layout Resource File:**

<?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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<EditText

android:id="@+id/url\_input"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/enter\_url" />

<Button

android:id="@+id/go\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/go" />

<WebView

android:id="@+id/web\_view"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" />

</LinearLayout>

**colors.xml Values Resource File:**

<?xml version="1.0" encoding="utf-8"?>

<resources>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

</resources>

**strings.xml Values Resource File:**

<resources>

<string name="app\_name">WebViewInputURL</string>

<string name="enter\_url">Enter URL</string>

<string name="go">Go</string>

</resources>

**MainActivity.java JAVA File:**

package com.example.webviewinputurl;

import android.os.Bundle;

import android.view.View;

import android.webkit.WebView;

import android.widget.Button;

import android.widget.EditText;

import androidx.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

private EditText urlInput;

private Button goButton;

private WebView webView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

urlInput = findViewById(R.id.url\_input);

goButton = findViewById(R.id.go\_button);

webView = findViewById(R.id.web\_view);

// Enable JavaScript for the WebView (optional, based on your needs)

webView.getSettings().setJavaScriptEnabled(true);

goButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String url = urlInput.getText().toString().trim();

if (!url.isEmpty()) {

// Check if URL starts with "http://" or "https://"

if (!url.startsWith("http://") && !url.startsWith("https://")) {

url = "http://" + url; // Add default protocol if missing

}

webView.loadUrl(url);

}

}

});

}

}

**OUTPUT:**





