Web page Display

Ex. No: 11 **Name:** Sabarivasan V **Date:** 12.10.2023 **Reg. no:** 205001085

Objective:

• Develop an android application to display a static web page with contents that uses all formatting HTML tags.

• Also should load the web page from the specified URL.

•

Android widgets and layouts used:

- Linear layout (linear and horizontal)
- Space
- Button
- TextView
- EditText
- WebView

Code:

activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:padding="10dp"
    tools:context=".MainActivity">

<LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        </textView
        android:layout_width="60dp"
        android:layout_width="60dp"
        android:layout_height="wrap_content"</pre>
```

```
<EditText
        android:inputType="text" />
</LinearLayout>
<WebView
</WebView>
```

MainActivity.java:

```
package com.example.hybridapp;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.TargetApi;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.webkit.WebResourceError;
import android.webkit.WebResourceRequest;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.webkit.WebView;
import android.webkit.WebView;
import android.widget.Button;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
```

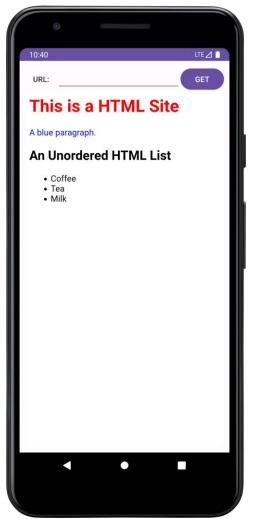
```
public class MainActivity extends AppCompatActivity {
  private WebView webView;
  private EditText url;
  private Button getButton;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity main);
      webView = findViewById(R.id.webView);
      url = findViewById(R.id.url);
      getButton = findViewById(R.id.load);
      webView.getSettings().setJavaScriptEnabled(true);
      // Load static HTML content
      String staticHtml = \frac{n}{n} +
              <body>\n'' +
              "<h1 style=\"color:red; font-family:sans-serif\">This is a HTML
Site</h1>\n" +
              "A blue paragraph.\n" +
              "\n" +
              " Coffee\n" +
              " Tea\n" +
              " <li>Milk</li>\n" +
              "

+
              "</body>\n" +
              "</html>";
      webView.loadData(staticHtml, "text/html", "UTF-8");
      webView.setWebViewClient(new WebViewClient()
           @Override
          public boolean shouldOverrideUrlLoading(WebView view, String url)
              System.out.println("hello");
              return false;
      });
```

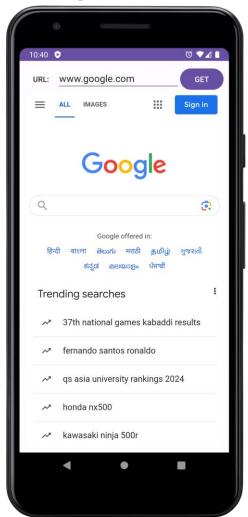
```
getButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            webView.loadUrl("https://" + url.getText().toString());
        }
    });
}
```

Output:

Default site:



Specified URL:



Best Practices:

- 1. Followed proper naming convention and used camel case for variable names.
- 2. Meaningful comments are included
- 3. User-friendly navigation
- 4. Providing different fonts to show separation and emphasis for titles.

- 5. Colors are used with valid contrast for readability
- 6. Usage of Data Binding.

Learning Outcomes:

- 1. I learned how to insert WebView into android app.
- 2. I learned how to include a webpage using static HTML code.
- 3. I learned how to display a webpage in android app.
- 4. Implemented application for loading website using specified URL.