WEB APPLICATION

AIM & ALGORITHM

AIM:

Design a android web application program to create a Web-View to display web content

ALGORITHM:

- Step 1: Create a new project in Android Studio. Go to File -□New Project and fill all required details to create a new project.
- Step 2: Create the XML layout file with a WebView component that will be used to display the web content.
- Step 3: In the Java file, initialize the WebView component and configure its settings such as enabling JavaScript and setting a WebViewClient.
- Step 4: Add the code to res/layout/activity main.xml.
- Step 5: Use the WebView's loadUrl method to load a specific URL into the WebView
- Step 6: Add the Code to src/MainActivity.java
- Step 7: Override the onBackPressed method to handle the navigation within the WebView.
- Step 8: Add the code to androidManifest.xml

ACTIVITY_MAIN.XML

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

```
android:layout height="wrap content"
      <EditText
          android:id="@+id/urlInput"
          android:layout width="0dp"
          android:layout height="wrap content"
          android:layout weight="1"
          android:inputType="textUri"
          android:layout width="wrap content"
          android:layout height="wrap content"
          android:layout width="wrap content"
          android:layout height="wrap content"
          android:text="Back" />
          android:layout width="wrap content"
          android:layout height="wrap content"
          android:text="Forward" />
  </LinearLayout>
  <WebView
      android:id="@+id/webView"
      android:layout width="match parent"
      android:layout height="match parent" />
</LinearLayout>
```

MAINACTIVITY.JAVA

```
package com.example.studentwebapp;
import android.os.Bundle;
import android.view.View;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.webkit.WebViewClient;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
  private WebView webView;
  protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity main);
      webView = findViewById(R.id.webView);
      urlInput = findViewById(R.id.urlInput);
      goButton = findViewById(R.id.goButton);
      forwardButton = findViewById(R.id.forwardButton);
      webSettings.setJavaScriptEnabled(true); // Enable JavaScript for
      webSettings.setDisplayZoomControls(false); // Hide zoom buttons
      webView.setWebViewClient(new WebViewClient());
      webView.loadUrl(urlInput.getText().toString());
      goButton.setOnClickListener(new View.OnClickListener() {
```

```
String url = urlInput.getText().toString();
        webView.loadUrl(url);
backButton.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        if (webView.canGoForward()) {
            webView.goForward();
   super.onBackPressed();
```

ANDROIDMAINFEST.XML

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.studentwebapp">
    <uses-permission android:name="android.permission.INTERNET" />
```

OUTPUT

