SUBJECT: ANDROID DEVELOPMENT **NAME:**	
CLASS:	**ROLL NO:**
SEMESTER/YEAR:-	**EXAM NO:**
DATE OF PERFORMANCE:	**DATE OF SUBMISSION:**
EXAMINED:-	**REMARKS:**

EXPERIMENT NO –

TITLE: Design a mobile application to show any website using web view

OBJECTIVE:

1. To study and design a mobile application to show any website using web view

PREREQUISITE:

Students should be aware of Android Studio platform

TOOLS USED:

1. Android studio (Electric Eel)

THEORY:

WebView is a view that displays web pages inside your application. You can also specify an HTML string and can show it inside your application using WebView. WebView turns your application to a web application.

In order to add WebView to your application, you have to add <WebView> element to your xml layout file. Its syntax is as follows –

```
<WebView  xmlns:android="http://schemas.android.com/apk/res/android"
  android:id="@+id/webview"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
/>
```

In order to use it, you have to get a reference of this view in Java file. To get a reference, create an object of the class WebView. Its syntax is –

```
WebView browser = (WebView) findViewById(R.id.webview);
```

In order to load a web url into the WebView, you need to call a method loadUrl(String url) of the WebView class, specifying the required url. Its syntax is:

```
browser.loadUrl("http://www.tutorialspoint.com");
```

Apart from just loading url, you can have more control over your WebView by using the methods defined in WebView class. They are listed as follows –

Sr.No	Method & Description
1	canGoBack() This method specifies the WebView has a back history item.
2	canGoForward() This method specifies the WebView has a forward history item.
3	clearHistory() This method will clear the WebView forward and backward history.
4	destroy() This method destroy the internal state of WebView.
5	findAllAsync(String find) This method find all instances of string and highlight them.
6	getProgress() This method gets the progress of the current page.
7	getTitle() This method return the title of the current page.
8	getUrl() This method return the url of the current page.

Conclusion:

Code:

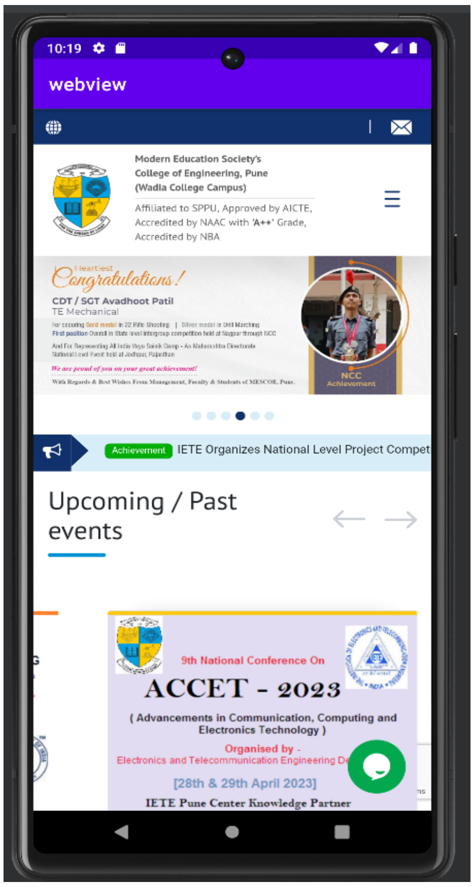
1. MainActivity.Java

```
package com.example.webview;


import android.os.Bundle;
import android.webkit.WebView;
import android.webkit.WebViewClient;
import androidx.appcompat.app.AppCompatActivity;


public class MainActivity extends AppCompatActivity {


  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);


    // Find the WebView by its unique ID
    WebView webView = findViewById(R.id.web);


    // loading url in the WebView.
    webView.loadUrl("https://mescoe.mespune.org/");


    // this will enable the javascript.
    webView.getSettings().setJavaScriptEnabled(true);


    // WebViewClient allows you to handle
    // onPageFinished and override Url loading.
    webView.setWebViewClient(new WebViewClient());
  }
}
```

2. Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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"
  tools:context=".MainActivity">
  <!-- unique ID of WebView -->
  <WebView
    android:id="@+id/web"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:layout_editor_absoluteX="8dp"
    tools:layout_editor_absoluteY="8dp" />
</RelativeLayout>
```

Output



10:19

webview

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