Aim : How to create a Website using Android studio .

Theory :

Following are used for creating of Website are :-

WebView : Android WebView is used to display web page in android. The web page can be loaded from same application or URL. It is used to display online content in android activity. Android WebView uses webkit engine to display web page.

onClickListener() : One of the most usable methods in android is **setOnClickListener** method which helps us to link a listener with certain attributes. While invoking this method a callback function will run. One can also create a class for more than one listener, so this can lead you to code reusability.

loadUrl() : 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.

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

Algorithm :

Step 1: Get Ready With **Android Studio**.
Step 2: **Create** App Interface And WebView Element.
Step 3: Declare A WebView Variable, Add A Link To Your Site.
Step 4: Give Internet Access Permission.
Step 5: Set WebView Client.
Step 6: Add Navigation Buttons.

Code :

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

website 〉 app 〉 src 〉 main 〉 AndroidManifest.xml

activity_main.xml   MainActivity.java   AndroidManifest.xml

```xml
1    <?xml version="1.0" encoding="utf-8"?>
2    <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3        package="com.example.website">
4        <uses-permission android:name="android.permission.INTERNET"/>
5
6        <application
7            android:allowBackup="true"
8            android:icon="@mipmap/ic_launcher"
9            android:label="website"
10           android:roundIcon="@mipmap/ic_launcher_round"
11           android:supportsRtl="true"
12           android:theme="@style/AppTheme">
13           <activity android:name=".MainActivity">
14               <intent-filter>
15                   <action android:name="android.intent.action.MAIN" />
16
17                   <category android:name="android.intent.category.LAUNCHER" />
18               </intent-filter>
19           </activity>
20       </application>
21
22   </manifest>
```

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

website 〉 app 〉 src 〉 main 〉 java 〉 com 〉 example 〉 website 〉 MainActivity

activity_main.xml   MainActivity.java   AndroidManifest.xml

```java
1    package com.example.website;
2
3    import ...
11
12   public class MainActivity extends AppCompatActivity {
13
14       @Override
15       protected void onCreate(Bundle savedInstanceState) {
16           super.onCreate(savedInstanceState);
17           setContentView(R.layout.activity_main);
18           final WebView wv=findViewById(R.id.site);
19           wv.setWebViewClient(new WebViewClient());
20           final Button b=findViewById(R.id.button);
21           b.setOnClickListener(new View.OnClickListener() {
22               @Override
23               public void onClick(View v) {
24                   wv.loadUrl("https://github.com/pooja-1699");
25               }
26           });
27           Toast.makeText(getApplicationContext(), text: "onCreated invoked successfullyy !!!",Toast.LENGTH_LONG).show();
28       }
29       @Override
30       protected void onStart() {
31           super.onStart();
32           Toast.makeText(getApplicationContext(), text: "onStart invoked successfullyy !!!",Toast.LENGTH_LONG).show();
33       }
```
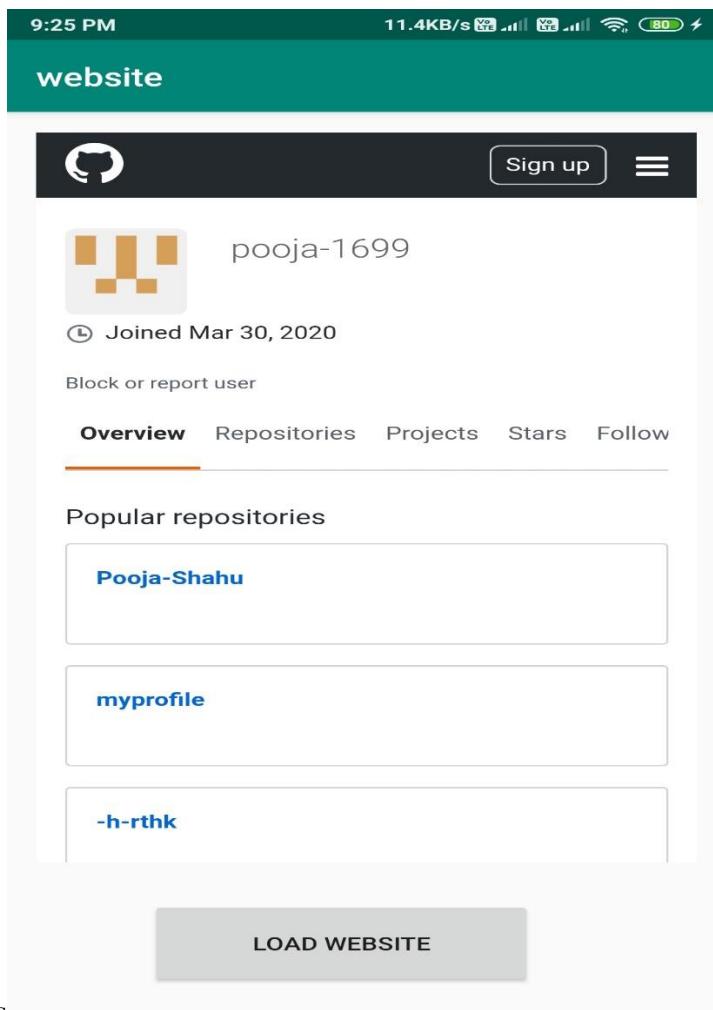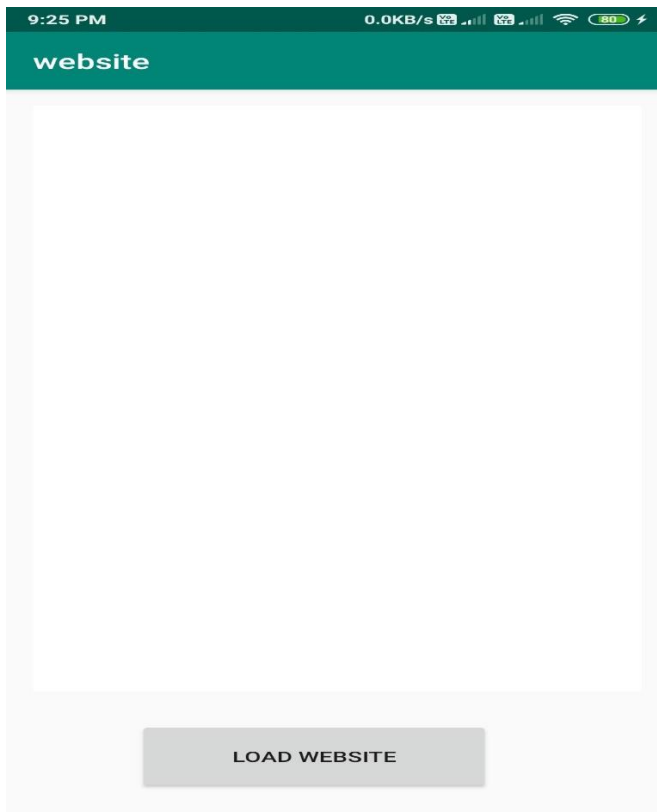
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

website ⟩ app ⟩ src ⟩ main ⟩ res ⟩ layout ⟩ activity_main.xml

activity_main.xml ×   MainActivity.java ×   AndroidManifest.xml ×

```xml
1    <?xml version="1.0" encoding="utf-8"?>
2    <androidx.constraintlayout.widget.ConstraintLayout
3        xmlns:android="http://schemas.android.com/apk/res/android"
4        xmlns:app="http://schemas.android.com/apk/res-auto"
5        xmlns:tools="http://schemas.android.com/tools"
6        android:layout_width="match_parent"
7        android:layout_height="match_parent"
8        tools:context=".MainActivity">
9
10       <WebView
11           android:id="@+id/site"
12           android:layout_width="363dp"
13           android:layout_height="567dp"
14           android:layout_marginStart="16dp"
15           android:layout_marginLeft="16dp"
16           android:layout_marginTop="16dp"
17           android:layout_marginEnd="16dp"
18           android:layout_marginRight="16dp"
19           android:layout_marginBottom="16dp"
20           app:layout_constraintBottom_toBottomOf="parent"
21           app:layout_constraintEnd_toEndOf="parent"
22           app:layout_constraintHorizontal_bias="0.0"
23           app:layout_constraintStart_toStartOf="parent"
24           app:layout_constraintTop_toTopOf="parent"
25           app:layout_constraintVertical_bias="0.0" />
26
27       <Button
28           android:id="@+id/button"
29           android:layout_width="211dp"
30           android:layout_height="67dp"
31           android:text="Load Website"
32           app:layout_constraintBottom_toBottomOf="parent"
33           app:layout_constraintEnd_toEndOf="parent"
34           app:layout_constraintHorizontal_bias="0.43"
35           app:layout_constraintStart_toStartOf="parent"
36           app:layout_constraintTop_toTopOf="parent"
37           app:layout_constraintVertical_bias="0.959" />
38   </androidx.constraintlayout.widget.ConstraintLayout>
```

Output :

SS