Android Class

WebView In Android

WebView

- WebView is a view that display web pages inside your application.

- WebView makes turns your application to a web application.

Steps

- Create new project.

- Add Webview inside your activity_main.xml.(Design as per your requirenment)

- In MainActivity.java create object of webview and initialize it.

- Now inside onClick() method of button take one string variable that store content of EditText.

- Now use **getSettings()** method of webview.

- Use **setJavaScriptEnabled()** method along with getSettings() method to enable JavaScript in the WebView.

webView.getSettings().setJavaScriptEnabled(true);

Cont...

- Now Create class **MyWebViewClient** that extends **WebViewClient.**

- Override **shouldOverrideUrlLoading()** method of WebViewClient.

- Now use **setWebViewClient()** method of Webview to initialize MyWebViewClient class object .

- Use **loadUrl()** method to load url inside WebView.

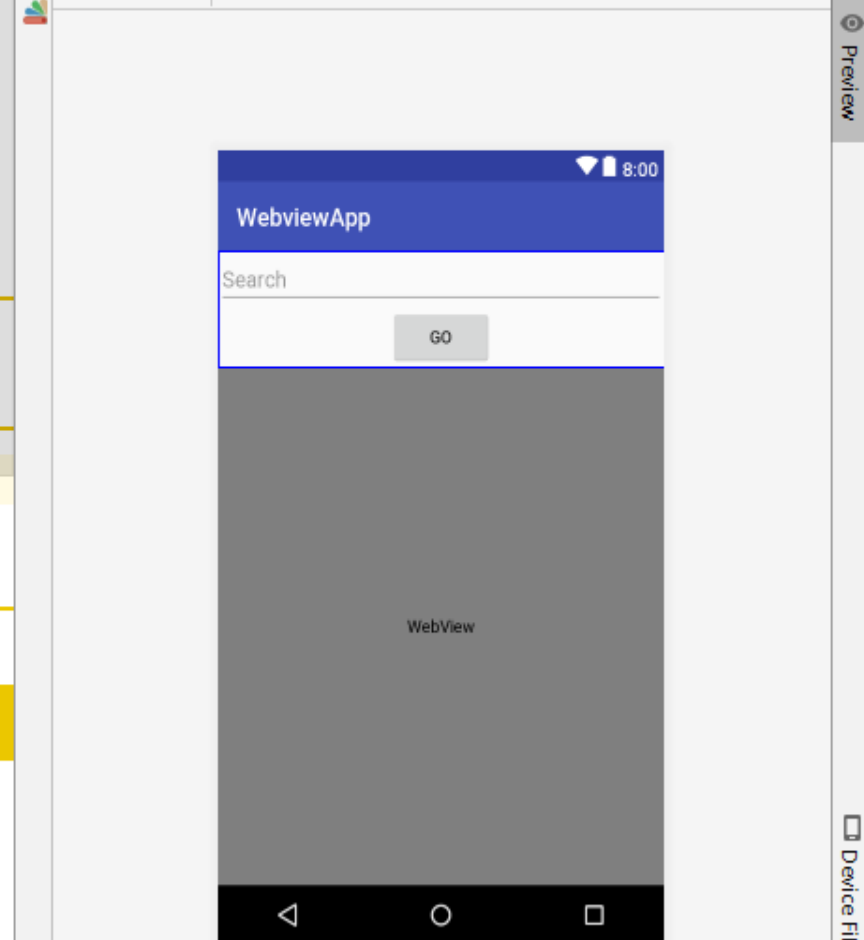- Add **internet** permission in **Manifest** file.

What is WebViewClient ?

- If you click on any link inside the webpage of the WebView, that page will not be loaded inside your WebView.

- In order to do that you need to extend your class from **WebViewClient** and override its method.

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

WebviewApp > app > src > main > res > layout > activity_main.xml

activity_main.xml   MainActivity.java

```xml
1    <?xml version="1.0" encoding="utf-8"?>
2    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3        xmlns:app="http://schemas.android.com/apk/res-auto"
4        xmlns:tools="http://schemas.android.com/tools"
5        android:layout_width="match_parent"
6        android:layout_height="match_parent"
7        android:orientation="vertical"
8        tools:context=".MainActivity">
9
10       <LinearLayout
11           android:layout_width="match_parent"
12           android:layout_height="wrap_content"
13           android:orientation="vertical">
14
15           <EditText
16               android:id="@+id/etSearch"
17               android:layout_width="match_parent"
18               android:layout_height="wrap_content"
19
20               android:hint="Search" />
21
```

LinearLayout > LinearLayout

Design   Text

Terminal   Build   6: Logcat   TODO   Event Log

Gradle build finished in 58s 203ms (today 10:58 AM)   12:45   CRLF   UTF-8   Context: <no context>

Preview

Nexus 4   27   31%

WebviewApp

Search

GO

WebView

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

WebviewApp > app > src > main > res > layout > activity_main.xml

activity_main.xml   MainActivity.java

```
16              android:id="@+id/etSearch"
17              android:layout_width="match_parent"
18              android:layout_height="wrap_content"
19
20              android:hint="Search"  />
21
22          <Button
23              android:id="@+id/btnGo"
24              android:layout_width="wrap_content"
25              android:layout_height="wrap_content"
26              android:layout_gravity="center"
27              android:text="Go"  />
28      </LinearLayout>
29
30      <WebView
31          android:id="@+id/webView"
32          android:layout_width="match_parent"
33          android:layout_height="match_parent"></WebView>
34
35  </LinearLayout>
```

Preview

Nexus 4   27   31%

WebviewApp

Search

GO

WebView

LinearLayout > LinearLayout

Design   Text

Terminal   Build   6: Logcat   TODO   Event Log

Gradle build finished in 58s 203ms (today 10:58 AM)   12:45   CRLF   UTF-8   Context: <no context>

WebviewApp app src main java com example akashtechnolabs webviewapp MainActivity

activity_main.xml   MainActivity.java

```java
package com.example.akashtechnolabs.webviewapp;


import ...


public class MainActivity extends AppCompatActivity implements View.OnClickListener {
    EditText etSearch;
    Button btnGo;
    WebView webView;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        etSearch = (EditText) findViewById(R.id.etSearch);
        btnGo = (Button) findViewById(R.id.btnGo);
        webView = (WebView) findViewById(R.id.webView);
        btnGo.setOnClickListener(this);
    }


    @Override
    public void onClick(View v) {
        switch (v.getId()) {
```

MainActivity onClick()

Terminal   Build   6: Logcat   TODO

Gradle build finished in 58s 203ms (23 minutes ago)   50 chars   33:66   CRLF   UTF-8   Context: <no context>

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

WebviewApp 〉 app 〉 src 〉 main 〉 java 〉 com 〉 example 〉 akashtechnolabs 〉 webviewapp 〉 MainActivity

activity_main.xml   MainActivity.java

```java
21          webView = (WebView) findViewById(R.id.webView);
22          btnGo.setOnClickListener(this);
23      }
24
25      @Override
26      public void onClick(View v) {
27          switch (v.getId()) {
28              case R.id.btnGo:
29                  String url = etSearch.getText().toString();
30                  //Enabling JavaScript
31                  //For security reasons, JavaScript is disabled in the WebView by default.
32                  // You can enable/disable JavaScript using setJavaScriptEnabled() method.
33                  webView.getSettings().setJavaScriptEnabled(true);
34                  //Use loadUrl method to load web page.
35                  webView.loadUrl(url);
36
37                  break;
38          }
39      }
40
41  }
42
```

MainActivity 〉 onClick()

Terminal   Build   6: Logcat   TODO   Event Log

Gradle build finished in 58s 203ms (23 minutes ago)   50 chars   33:16   CRLF   UTF-8   Context: <no context>

activity_main.xml   MainActivity.java

```java
21          webView = (WebView) findViewById(R.id.webView);
22          btnGo.setOnClickListener(this);
23      }
24
25      @Override
26      public void onClick(View v) {
27          switch (v.getId()) {
28              case R.id.btnGo:
29                  String url = etSearch.getText().toString();
30                  //Enabling JavaScript
31                  //For security reasons, JavaScript is disabled in the WebView by default.
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33                  webView.getSettings().setJavaScriptEnabled(true);
34                  //Use loadUrl method to load web page.
35                  webView.loadUrl(url);
36
37                  break;
38          }
39      }
40
41  }
42
```

MainActivity ⟩ onClick()

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

WebviewApp ❭ app ❭ src ❭ main ❭ java ❭ com ❭ example ❭ akashtechnolabs ❭ webviewapp ❭ MainActivity

activity_main.xml   MainActivity.java

```java
25
26          @Override
27          public void onClick(View v) {
28              switch (v.getId()) {
29                  case R.id.btnGo:
30                      String url = etSearch.getText().toString();
31                      //Enabling JavaScript
32                      //For security reasons, JavaScript is disabled in the WebView by default.
33                      // You can enable/disable JavaScript using setJavaScriptEnabled() method.
34                      webView.getSettings().setJavaScriptEnabled(true);
35                      //Use loadUrl method to load web page.
36                      webView.loadUrl(url);
37                      break;
38              }
39          }
40          private class MyWebViewClient extends WebViewClient {
41
42          }
43      }
44
```

MainActivity

Create class MyWebViewClient that extends WebViewClient class

Terminal   Build   6: Logcat   TODO   Event Log

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

WebviewApp > app > src > main > java > com > example > akashtechnolabs > webviewapp > MainActivity

app

activity_main.xml   MainActivity.java

```
25
26          @Override
27          public void onClick(View v) {
28              switch (v.getId()) {
29                  case R.id.btnGo:
30                      String url = etSearch.getText().toString();
31                      //Enabling JavaScript
32                      //For security reasons, JavaScript is disabled in the WebView by default.
33                      // You can enable/disable JavaScript using setJavaScriptEnabled() method.
34                      s().setJavaScriptEnabled(true);
35                      od to load web page.
36                      l);
37
38
39                  }
40          privat                          xtends WebViewClient {
41
42              }
43          }
44
```

Copy Reference   Ctrl+Alt+Shift+C
Paste   Ctrl+V
Paste from History...   Ctrl+Shift+V
Paste Simple   Ctrl+Alt+Shift+V
Column Selection Mode   Alt+Shift+Insert

Find Usages   Alt+F7
Find Sample Code   Alt+F8
Refactor

Folding
Analyze
Go To

Generate...   Alt+Insert

Run 'MainActivity'   Ctrl+Shift+F10
Debug 'MainActivity'
Profile 'MainActivity'
Create 'MainActivity'...

Local History
Compare with Clipboard

MainActivity

Terminal   Build   Event Log

WebviewApp > app > src > main > java > com > example > akashtechnolabs > webviewapp > MainActivity >

activity_main.xml   MainActivity.java

```java
25
26          @Override
27          public void onClick(View v) {
28              switch (v.getId()) {
29                  case R.id.btnGo:
30                      String url = etSearch.getText().toString();
31                      //Enabling JavaScript
32                      //For security reasons, JavaScript is disabled in the WebView by default.
33                      // You can enable/disable JavaScript using setJavaScriptEnabled() method.
34                      webView.getSettings().setJavaScriptEnabled(true);
35                      //Use loadUrl method to load web page.
36                      webView.loadUrl(url);
37                      break;
38              }
39          }
40          private class MyWebViewClient extends WebViewCli
41
42          }
43      }
44
```
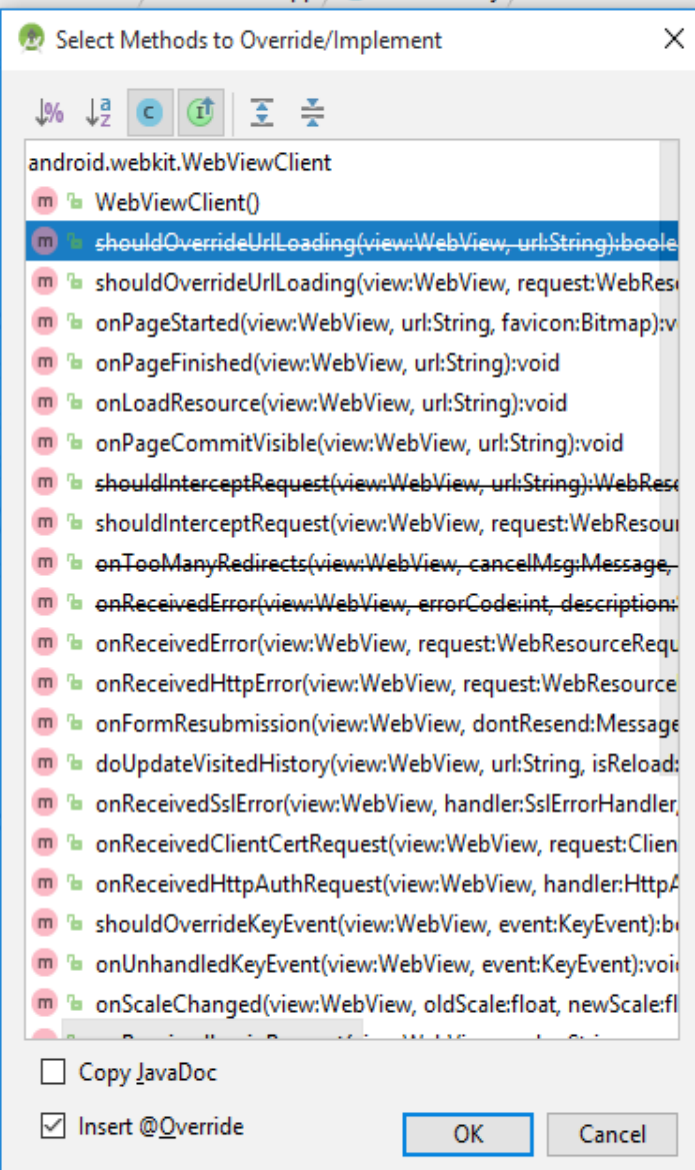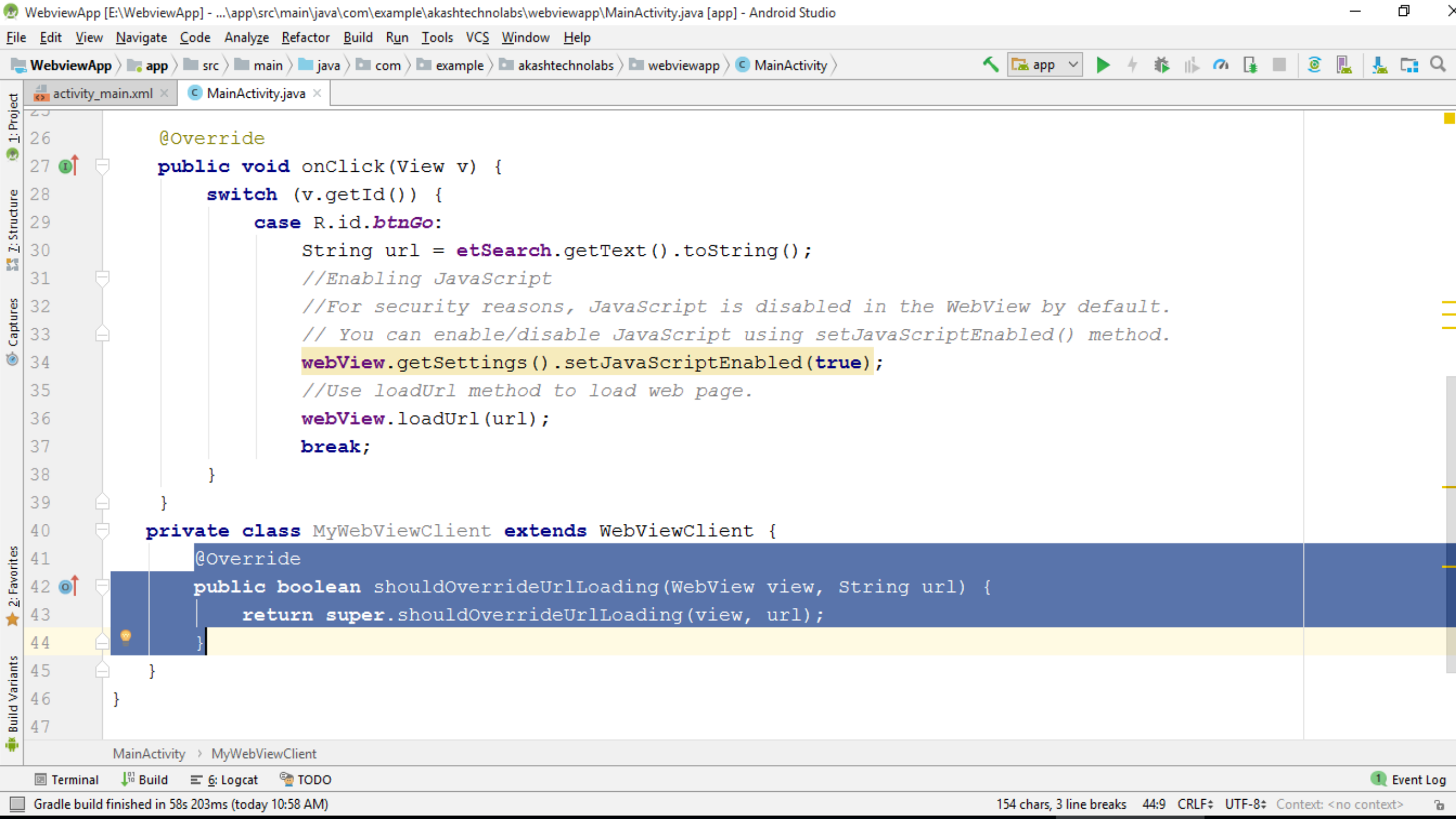
Generate
Constructor
toString()
Override Methods...   Ctrl+O
Delegate Methods...
Copyright

MainActivity > MyWebViewClient

Terminal   Build   6: Logcat   TODO   Event Log

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

WebviewApp > app > src > main > java > com > example > akashtechnolabs > webviewapp > MainActivity

activity_main.xml   MainActivity.java

```java
25
26         @Override
27         public void onClick(View v) {
28             switch (v.getId()) {
29                 case R.id.btnGo:
30                     String url = etSearc
31                     //Enabling JavaScrip
32                     //For security reaso                    WebView by default.
33                     // You can enable/di                    ptEnabled() method.
34                     webView.getSettings(
35                     //Use loadUrl metho
36                     webView.loadUrl(url)
37                     break;
38                 }
39             }
40         private class MyWebViewClient ext
41
42         }
43     }
44
```

Select Methods to Override/Implement

android.webkit.WebViewClient

- m ⊞ WebViewClient()
- m ⊞ ~~shouldOverrideUrlLoading(view:WebView, url:String):boole~~
- m ⊞ shouldOverrideUrlLoading(view:WebView, request:WebRes
- m ⊞ onPageStarted(view:WebView, url:String, favicon:Bitmap):v
- m ⊞ onPageFinished(view:WebView, url:String):void
- m ⊞ onLoadResource(view:WebView, url:String):void
- m ⊞ onPageCommitVisible(view:WebView, url:String):void
- m ⊞ ~~shouldInterceptRequest(view:WebView, url:String):WebRes~~
- m ⊞ shouldInterceptRequest(view:WebView, request:WebResou
- m ⊞ ~~onTooManyRedirects(view:WebView, cancelMsg:Message,~~
- m ⊞ ~~onReceivedError(view:WebView, errorCode:int, description:~~
- m ⊞ onReceivedError(view:WebView, request:WebResourceRequ
- m ⊞ onReceivedHttpError(view:WebView, request:WebResource
- m ⊞ onFormResubmission(view:WebView, dontResend:Message
- m ⊞ doUpdateVisitedHistory(view:WebView, url:String, isReload:
- m ⊞ onReceivedSslError(view:WebView, handler:SslErrorHandler,
- m ⊞ onReceivedClientCertRequest(view:WebView, request:Clien
- m ⊞ onReceivedHttpAuthRequest(view:WebView, handler:HttpA
- m ⊞ shouldOverrideKeyEvent(view:WebView, event:KeyEvent):b
- m ⊞ onUnhandledKeyEvent(view:WebView, event:KeyEvent):voi
- m ⊞ onScaleChanged(view:WebView, oldScale:float, newScale:fl

☐ Copy JavaDoc

☑ Insert @Override   OK   Cancel

MainActivity > MyWebViewClient

Terminal   Build   6: Logcat   TODO   Event Log

Gradle build finished in 58s 203ms (today 10:58 AM)   41:8   CRLF   UTF-8

WebviewApp > app > src > main > java > com > example > akashtechnolabs > webviewapp > MainActivity

activity_main.xml   MainActivity.java

```java
        @Override
        public void onClick(View v) {
            switch (v.getId()) {
                case R.id.btnGo:
                    String url = etSearch.getText().toString();
                    //Enabling JavaScript
                    //For security reasons, JavaScript is disabled in the WebView by default.
                    // You can enable/disable JavaScript using setJavaScriptEnabled() method.
                    webView.getSettings().setJavaScriptEnabled(true);
                    //Use loadUrl method to load web page.
                    webView.loadUrl(url);
                    break;
            }
        }

        private class MyWebViewClient extends WebViewClient {
            @Override
            public boolean shouldOverrideUrlLoading(WebView view, String url) {
                return super.shouldOverrideUrlLoading(view, url);
            }
        }
    }
}
```

MainActivity > MyWebViewClient

Terminal   Build   6: Logcat   TODO   Event Log

Gradle build finished in 58s 203ms (today 10:58 AM)   154 chars, 3 line breaks   44:9   CRLF   UTF-8   Context: <no context>

```java
25
26          @Override
27          public void onClick(View v) {
28              switch (v.getId()) {
29                  case R.id.btnGo:
30                      String url = etSearch.getText().toString();
31                      //Enabling JavaScript
32                      //For security reasons, JavaScript is disabled in the WebView by default.
33                      // You can enable/disable JavaScript using setJavaScriptEnabled() method.
34                      webView.getSettings().setJavaScriptEnabled(true);
35                      //Use loadUrl method to load web page.
36                      webView.loadUrl(url);
37                      break;
38              }
39          }
40          private class MyWebViewClient extends WebViewClient {
41              @Override
42              public boolean shouldOverrideUrlLoading(WebView view, String url) {
43                  //Use loadUrl() method to load link in WebView.Return true
44                  view.loadUrl(url);
45                  return true;
46              }
47          }
```
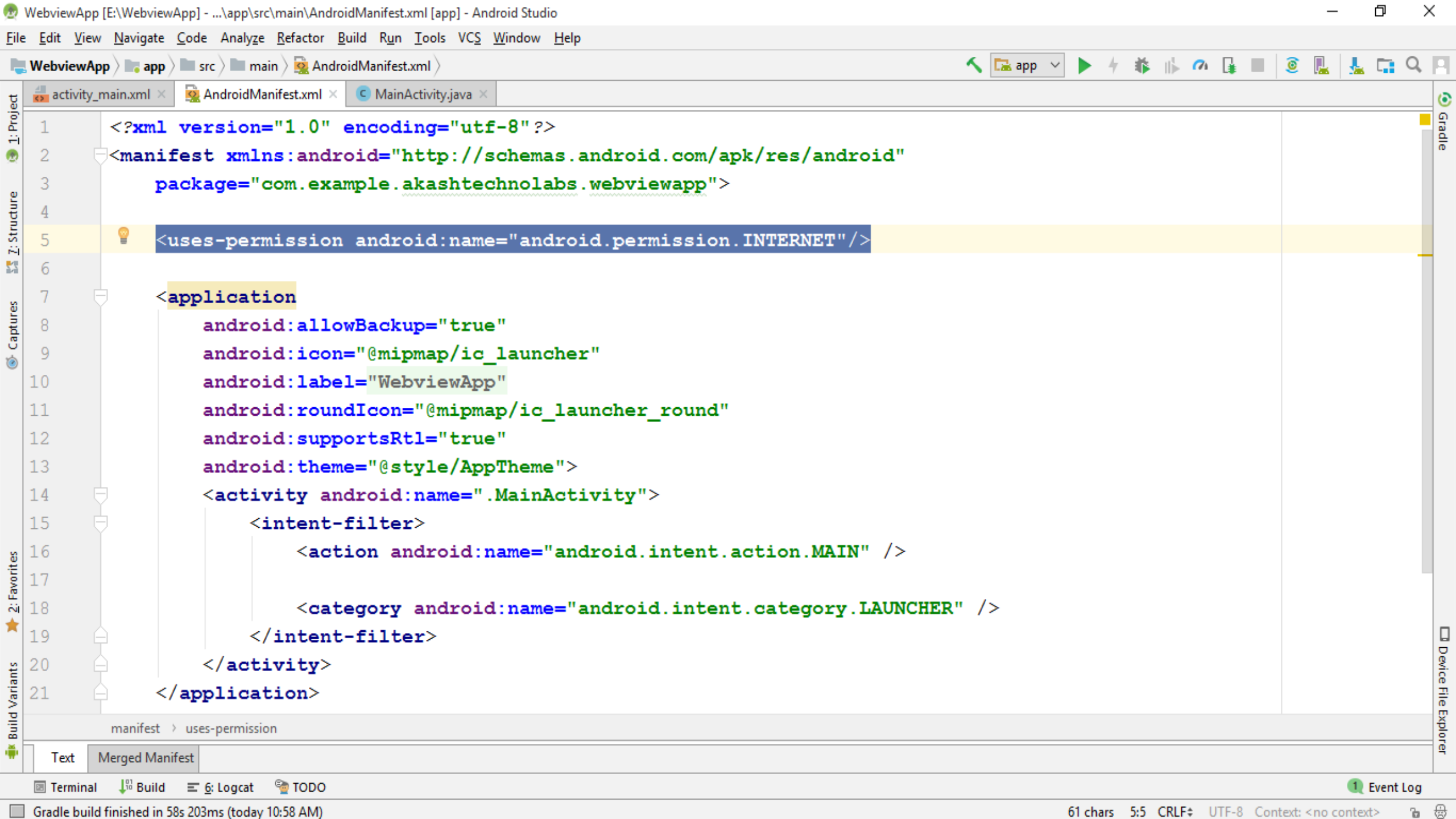
WebviewApp > app > src > main > java > com > example > akashtechnolabs > webviewapp > MainActivity

activity_main.xml   MainActivity.java

```java
22          webView = (WebView) findViewById(R.id.webView);
23              btnGo.setOnClickListener(this);
24          }
25
26          @Override
27          public void onClick(View v) {
28              switch (v.getId()) {
29                  case R.id.btnGo:
30                      String url = etSearch.getText().toString();
31                      //Enabling JavaScript
32                      //For security reasons, JavaScript is disabled in the WebView by default.
33                      // You can enable/disable JavaScript using setJavaScriptEnabled() method.
34                      webView.getSettings().setJavaScriptEnabled(true);
35                      //Use setWebViewClient() method to initialize MyWebViewClient class object.
36                      webView.setWebViewClient(new MyWebViewClient());
37                      //Use loadUrl method to load web page.
38                      webView.loadUrl(url);
39                      break;
40                  }
41              }
42          private class MyWebViewClient extends WebViewClient {
43              @Override
44              public boolean shouldOverrideUrlLoading(WebView view, String url) {
```

MainActivity > onClick()

Terminal   Build   6: Logcat   TODO   Event Log

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

WebviewApp › app › src › main › AndroidManifest.xml › app

activity_main.xml   AndroidManifest.xml   MainActivity.java

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

manifest › uses-permission

Text   Merged Manifest

Terminal   Build   6: Logcat   TODO   Event Log

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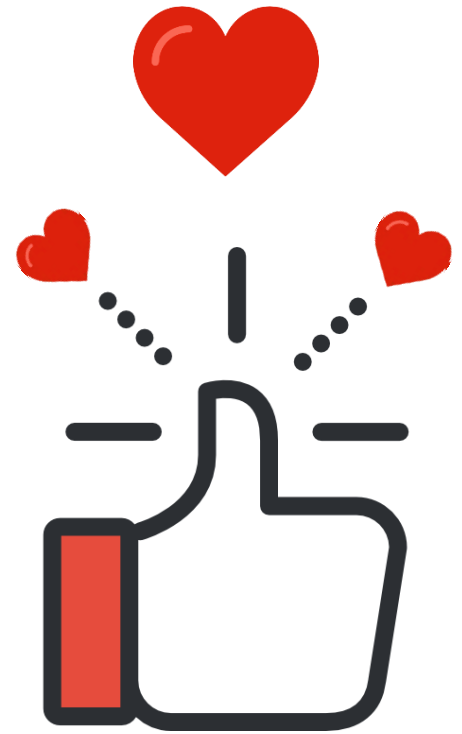
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