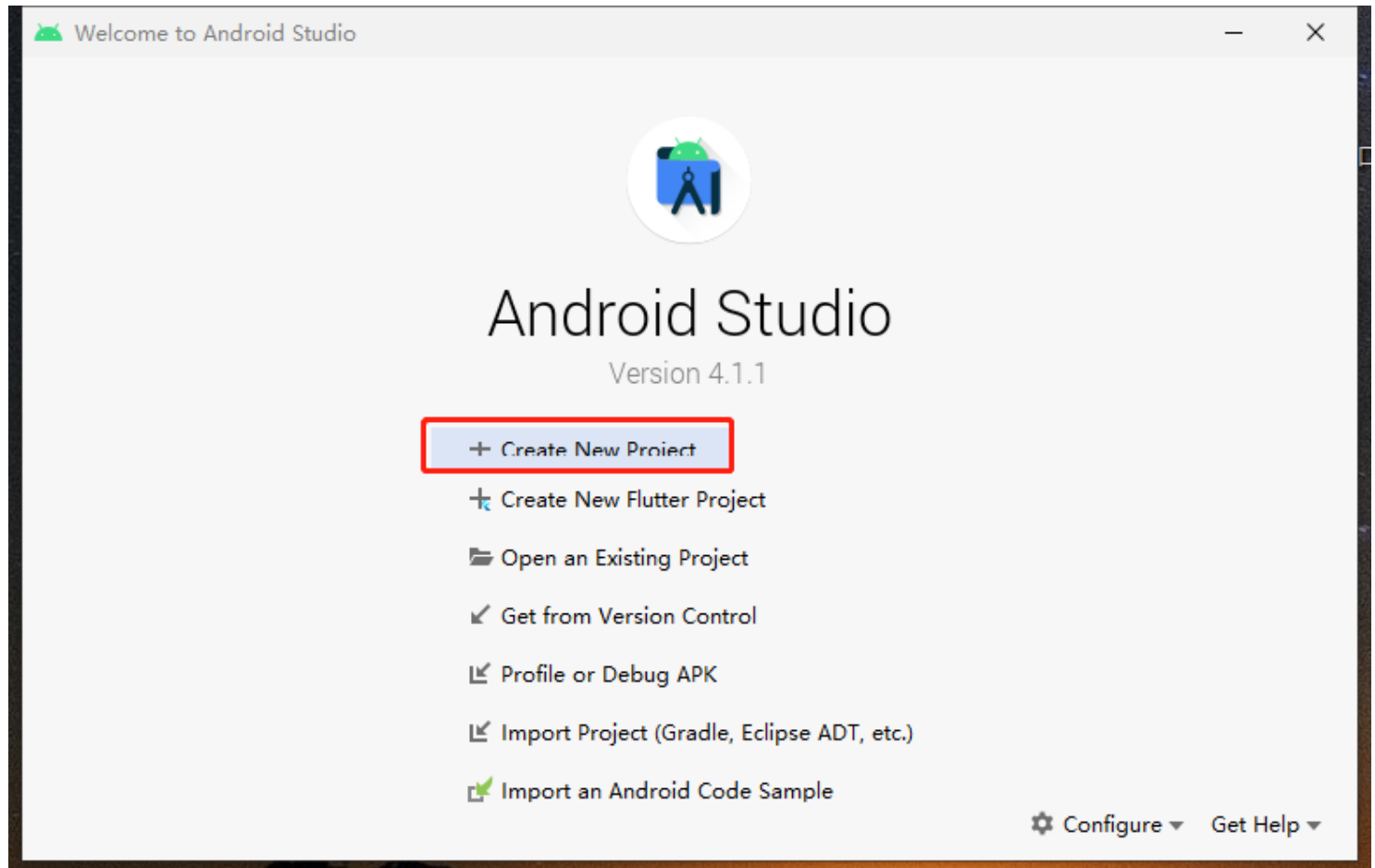


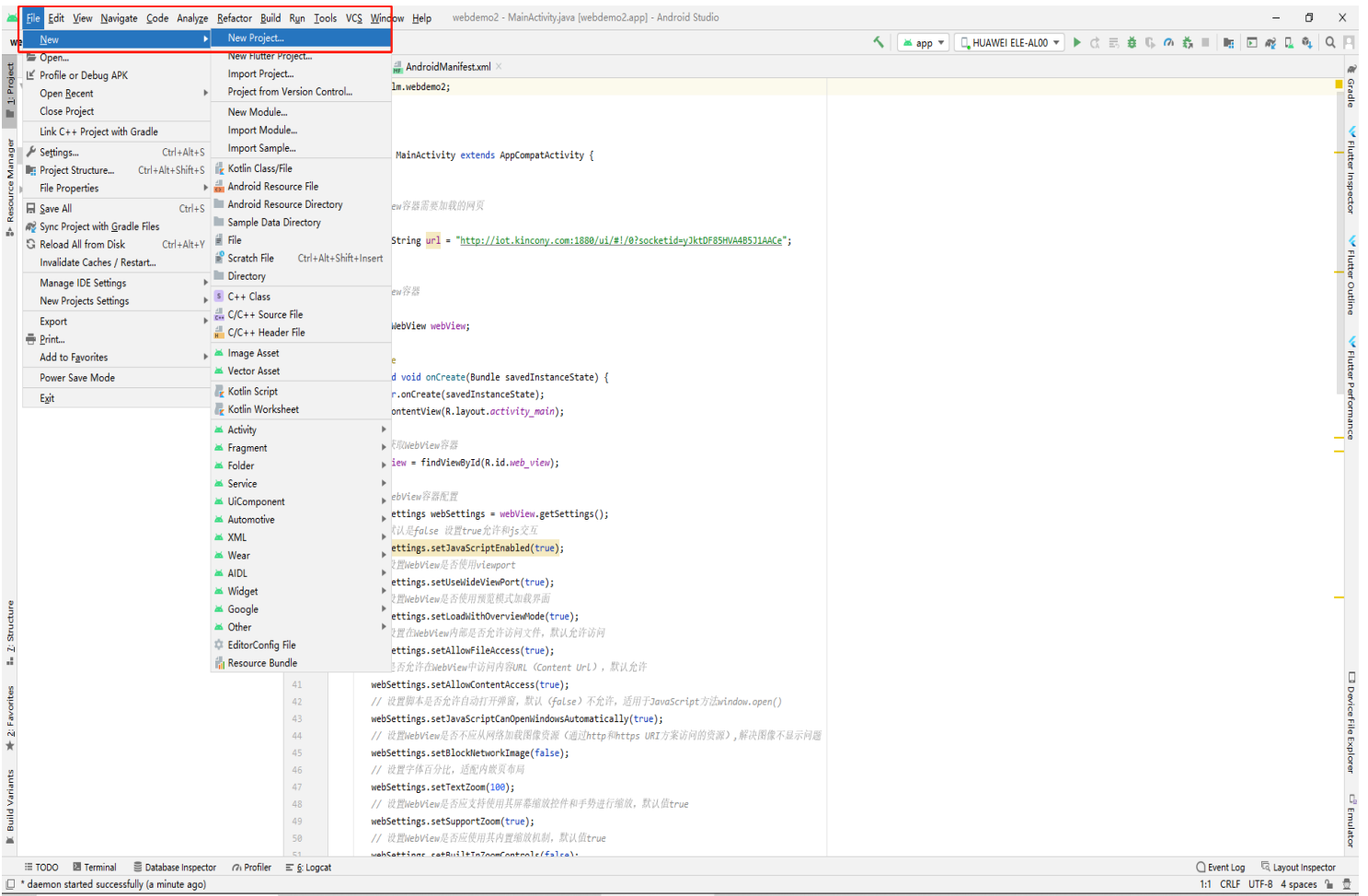
how to make android app from webpage - KinCony

Use Android Studio create new project

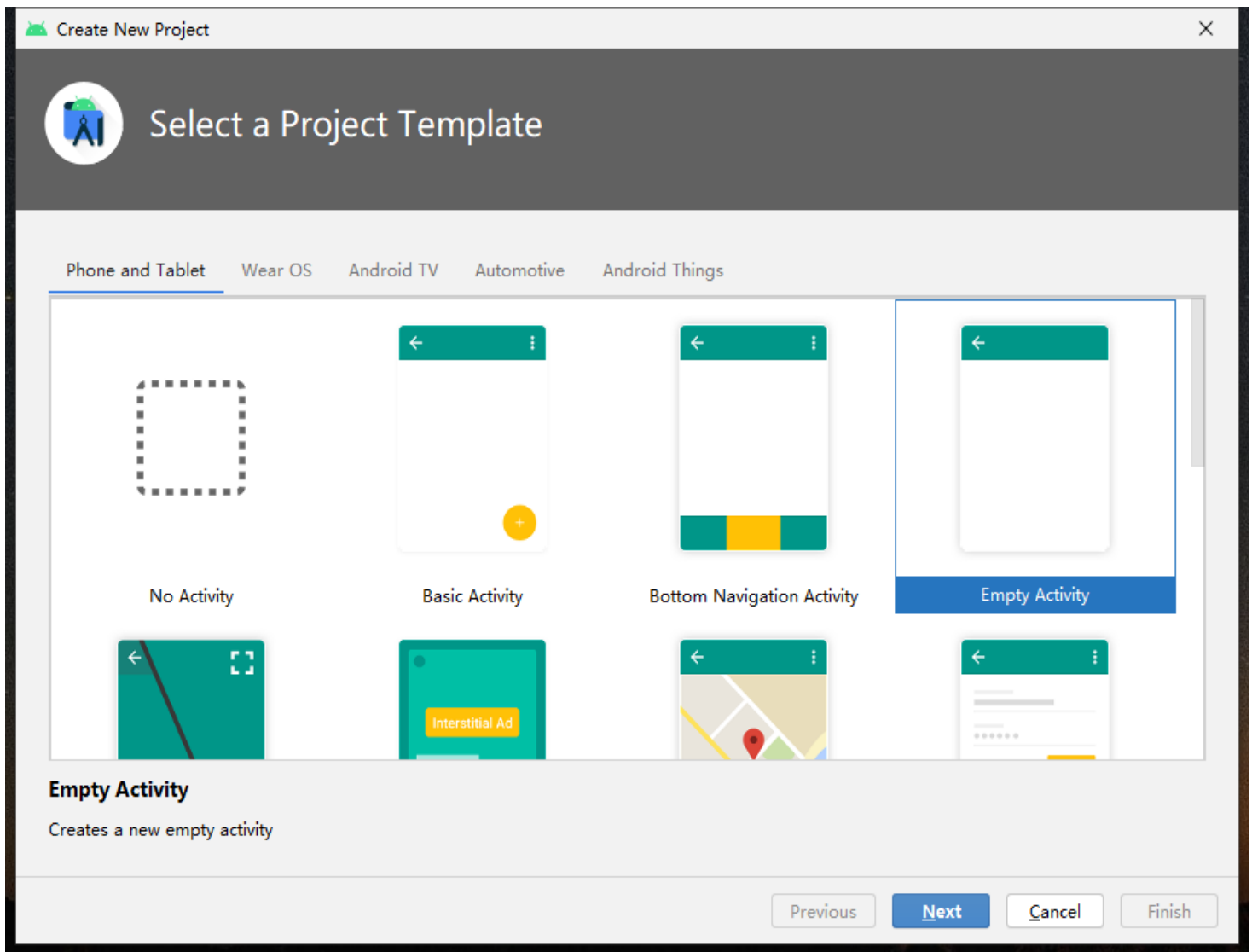
Open Android Studio, if you first time use Android Studio, click “create New Project”.



if not first time use Android Studio, Android Studio will auto open last project, now you can click File->New-->New Project....



Select "Empty Activity", click "Next".



Input text for “Name, Package name, Save location” , others as default, not need to change, click “Finish”.

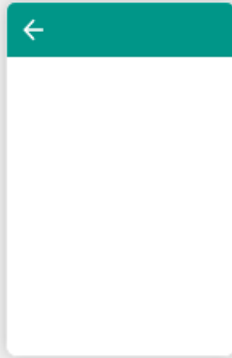
Name: Project name.

Package name: The unique ID of the project cannot be the same as other applications, otherwise the installation will fail. It's better to start with your own domain name, such as com.kincony

Save location: project file save path.



Configure Your Project



Empty Activity

Creates a new empty activity

Name

MyApplication

Package name

com.lm.myapplication

Save location

C:\Users\wengw\Desktop\MyApplication

Language

Java

Minimum SDK

API 16: Android 4.1 (Jelly Bean)

i Your app will run on approximately **99.8%** of devices.
[Help me choose](#)

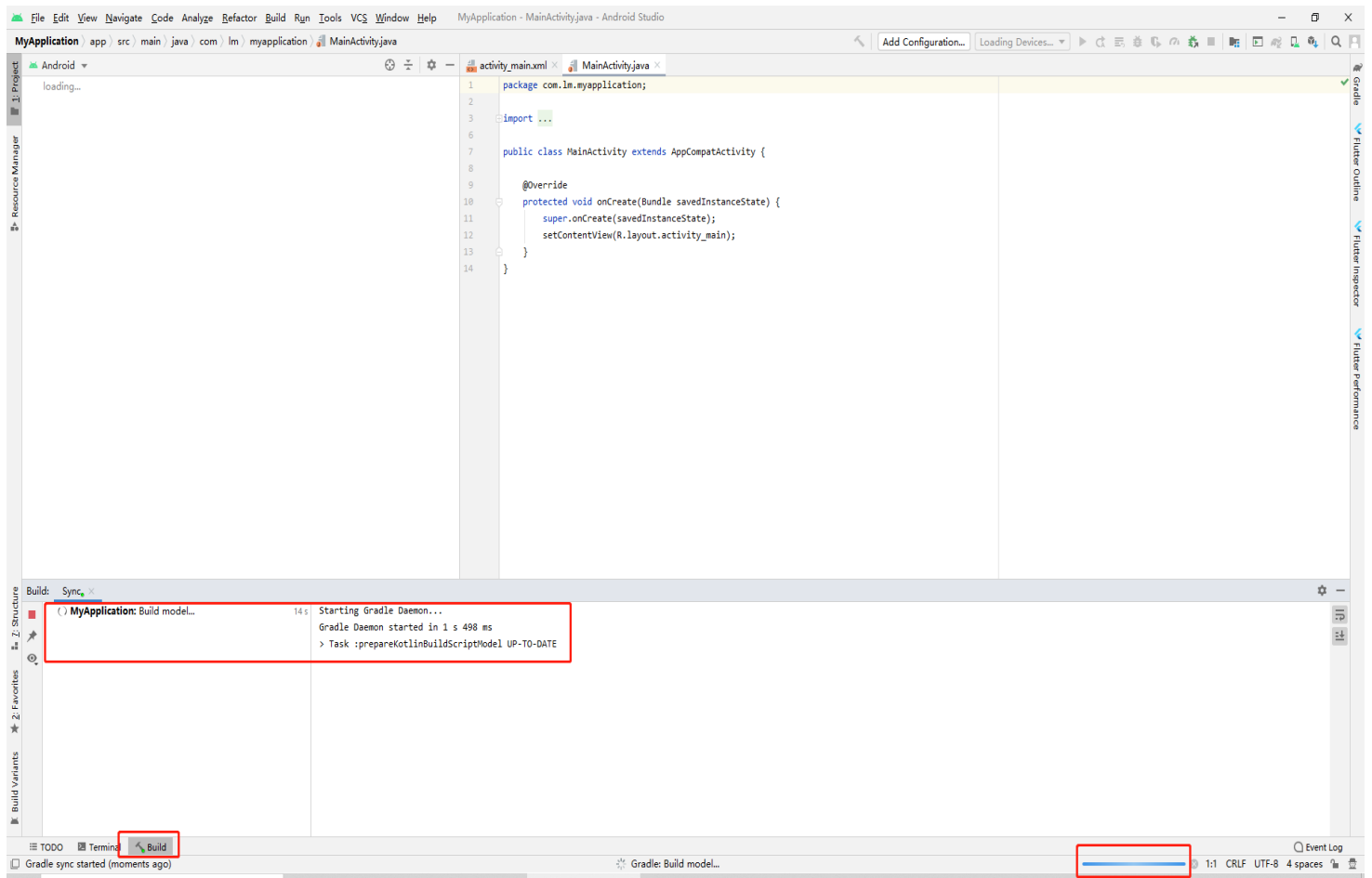
Use legacy android support libraries [?](#)

Previous

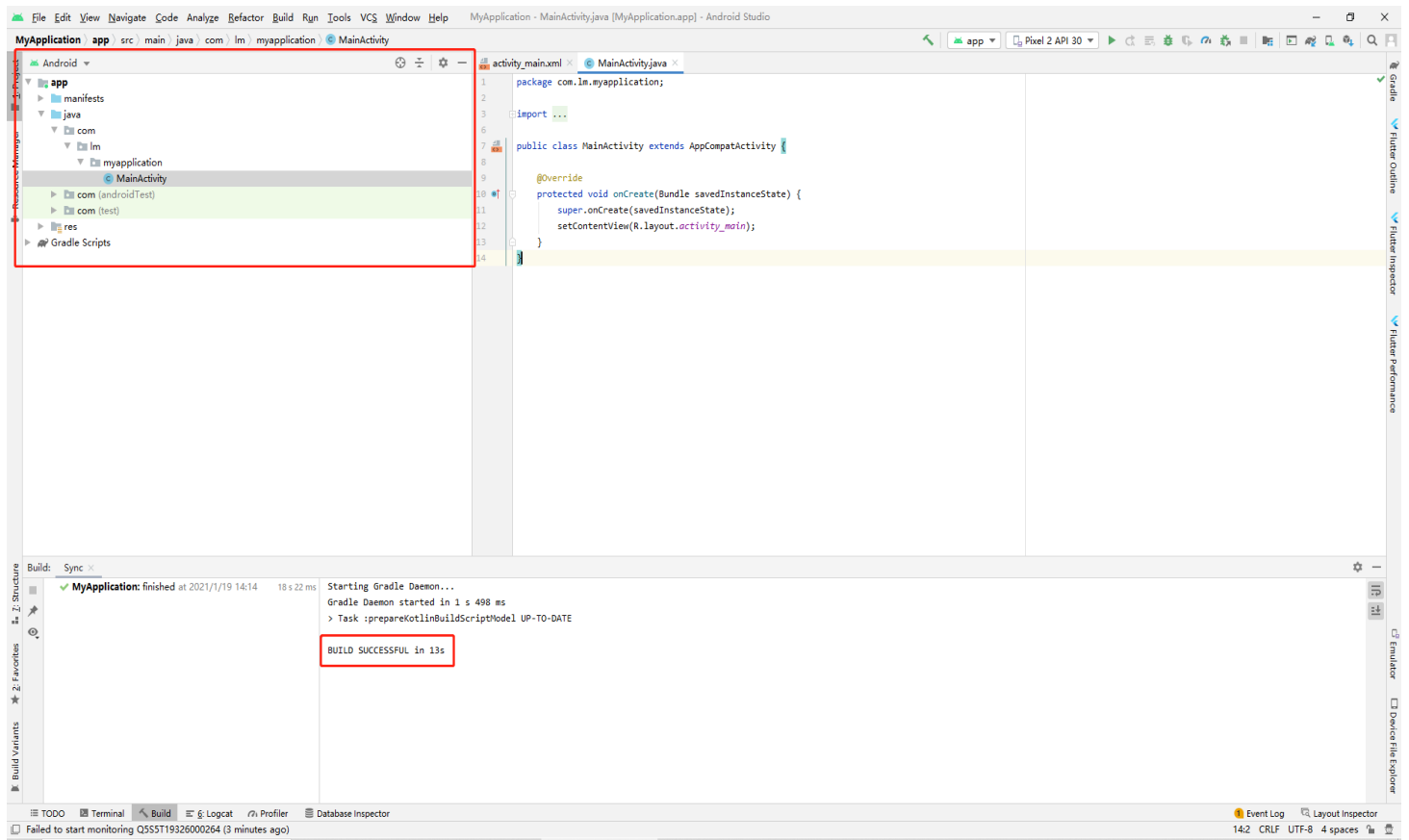
Next

Cancel

Finish



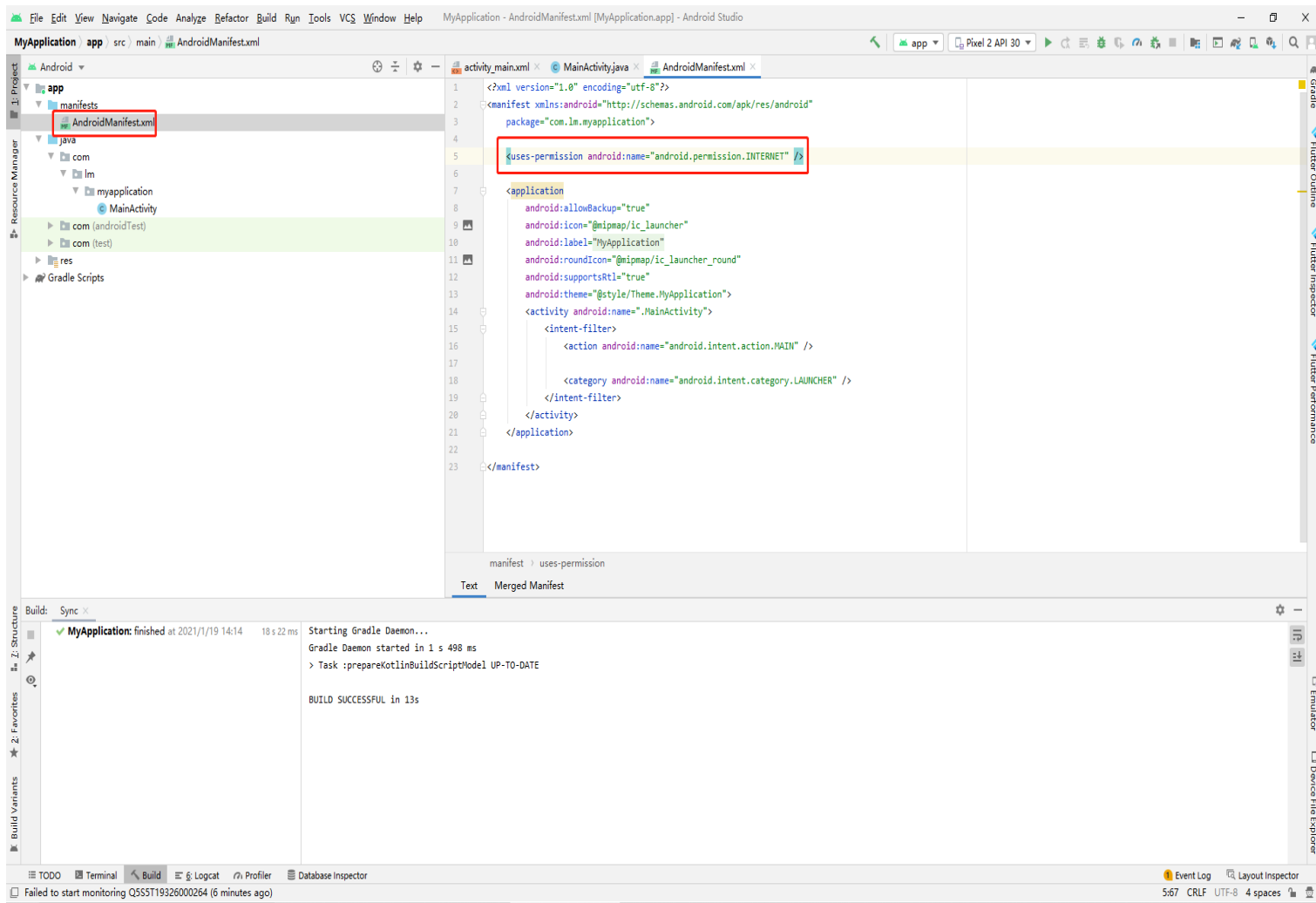
When Andorid Studio startup, you can write code now.



Add network access

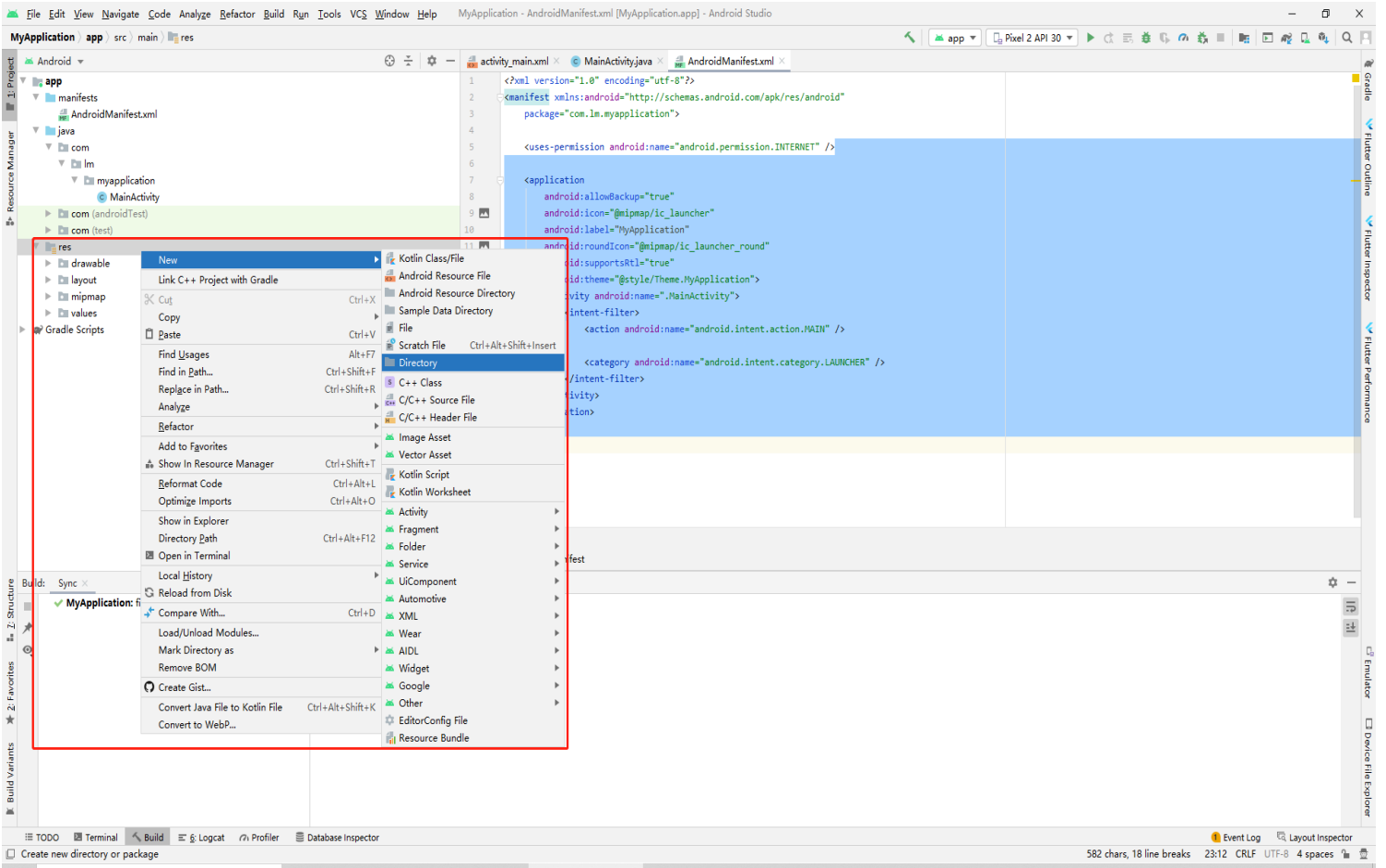
Open `AndroidManifest.xml` file, before `<application` insert code:

```
<uses-permission android:name="android.permission.INTERNET"/>
```

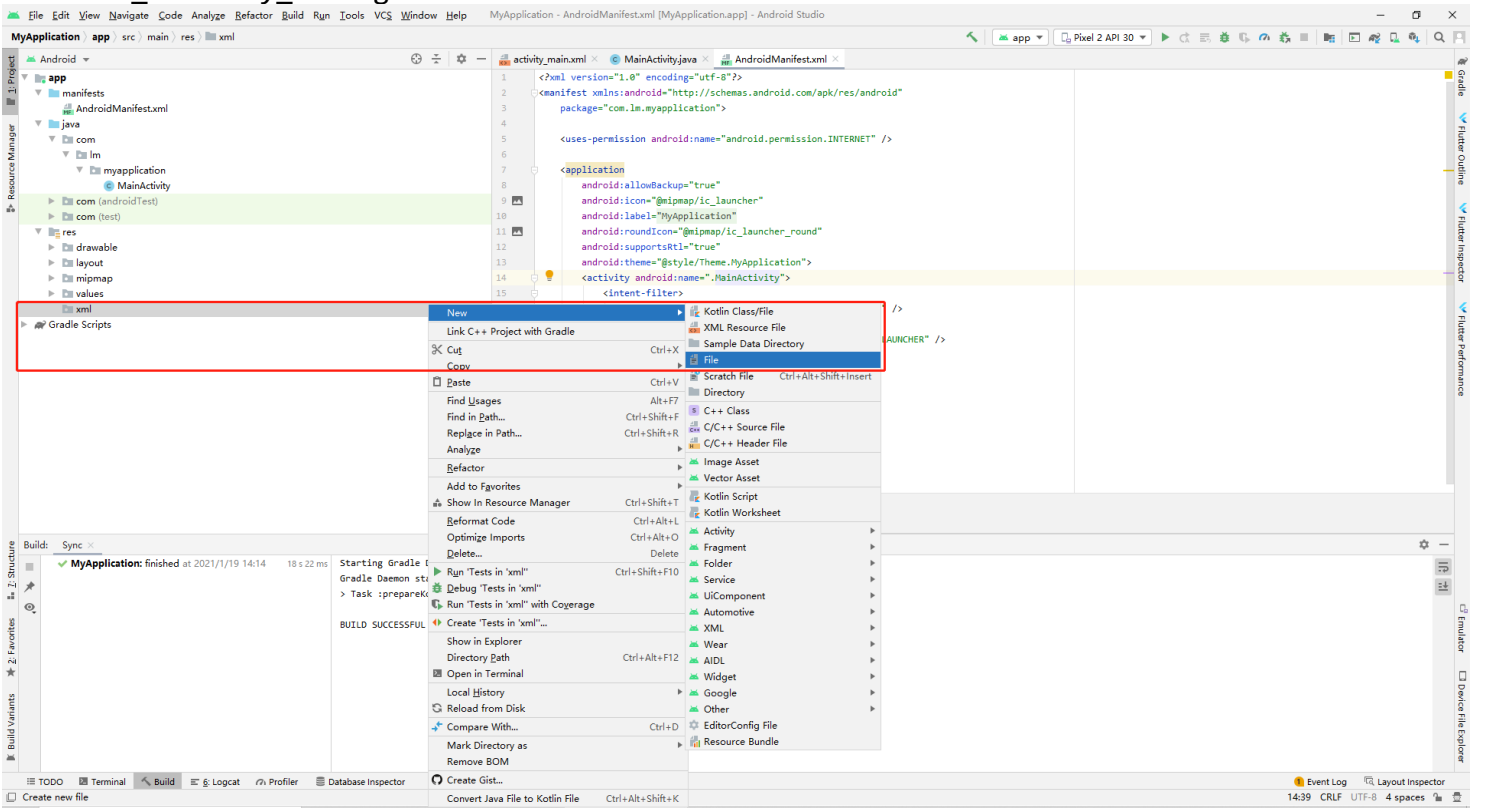


Build http protocol

Click "res" folder, mouse right button click "New-->Directory" create "xml" folder

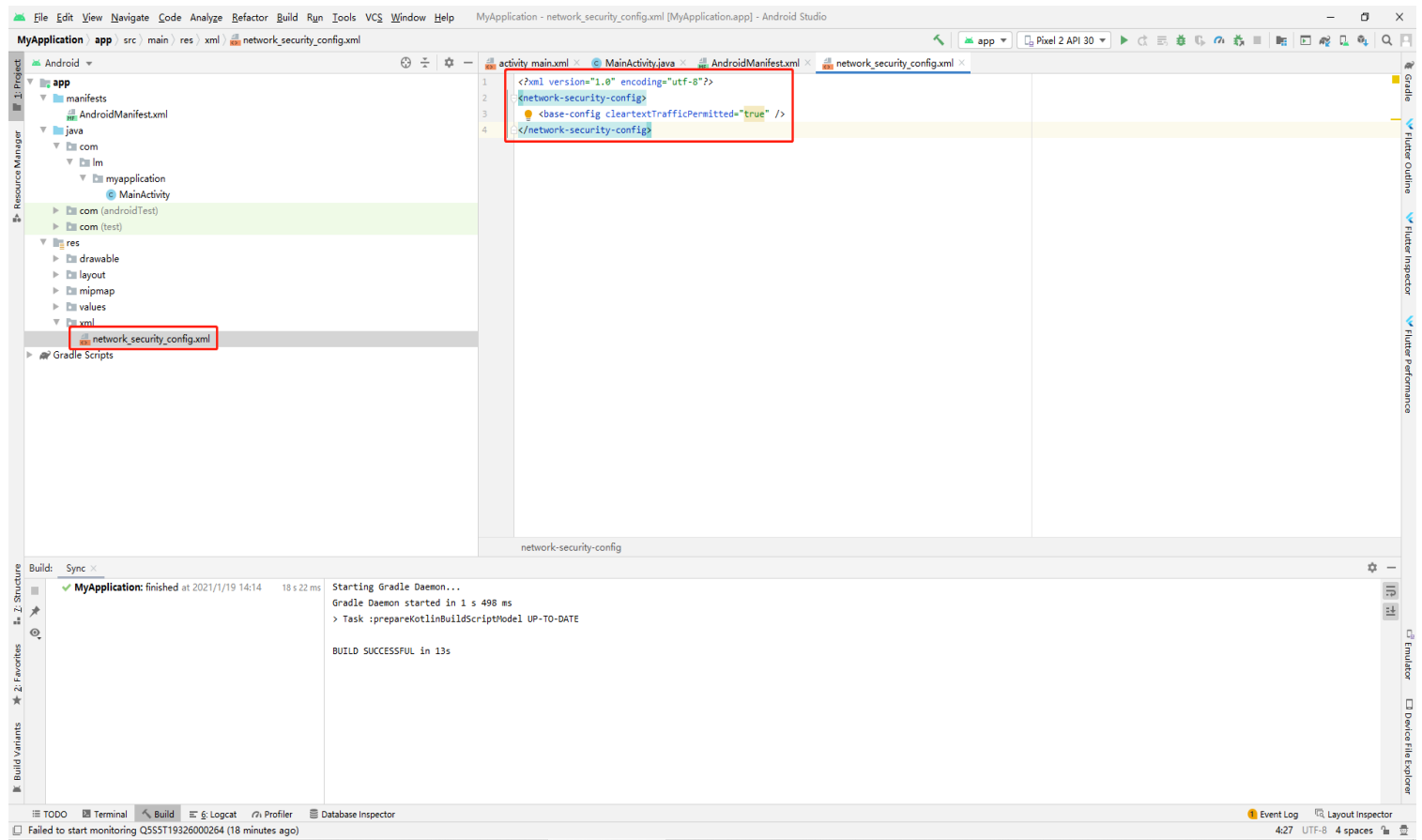


Chose "xml" folder, mouse right button click "New->File" create "network_security_config.xml" file.



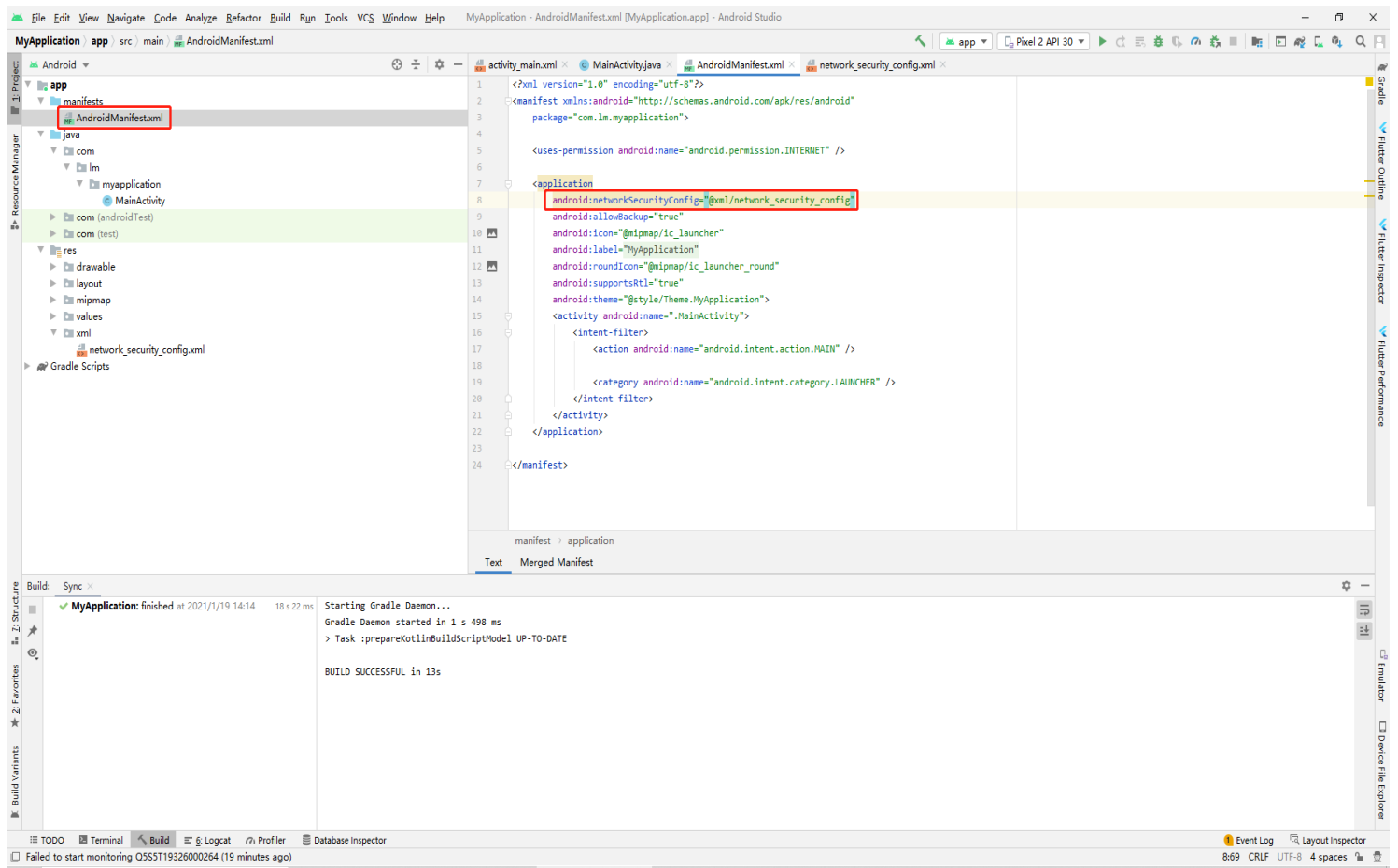
Modify "network_security_config.xml" input these code:

```
<?xml version="1.0" encoding="utf-8"?>
<network-security-config>
  <base-config cleartextTrafficPermitted="true" />
</network-security-config>
```



Open "AndroidManifest.xml" again, between `<application` add code:

```
android:networkSecurityConfig="@xml/network_security_config"
```



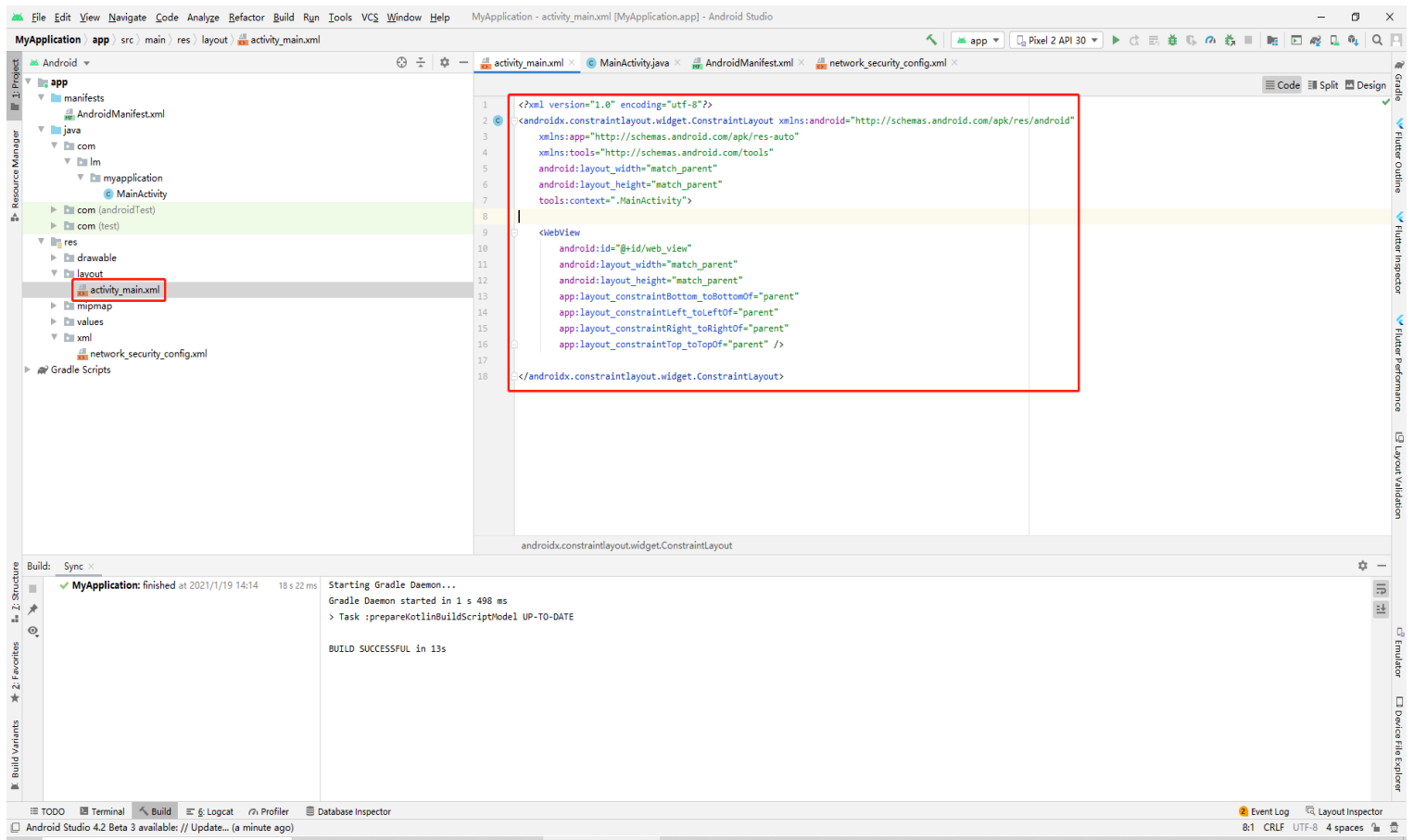
Add WebView

Open "activity_main.xml", modify code as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout 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"
    tools:context=".MainActivity">

    <WebView
        android:id="@+id/web_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

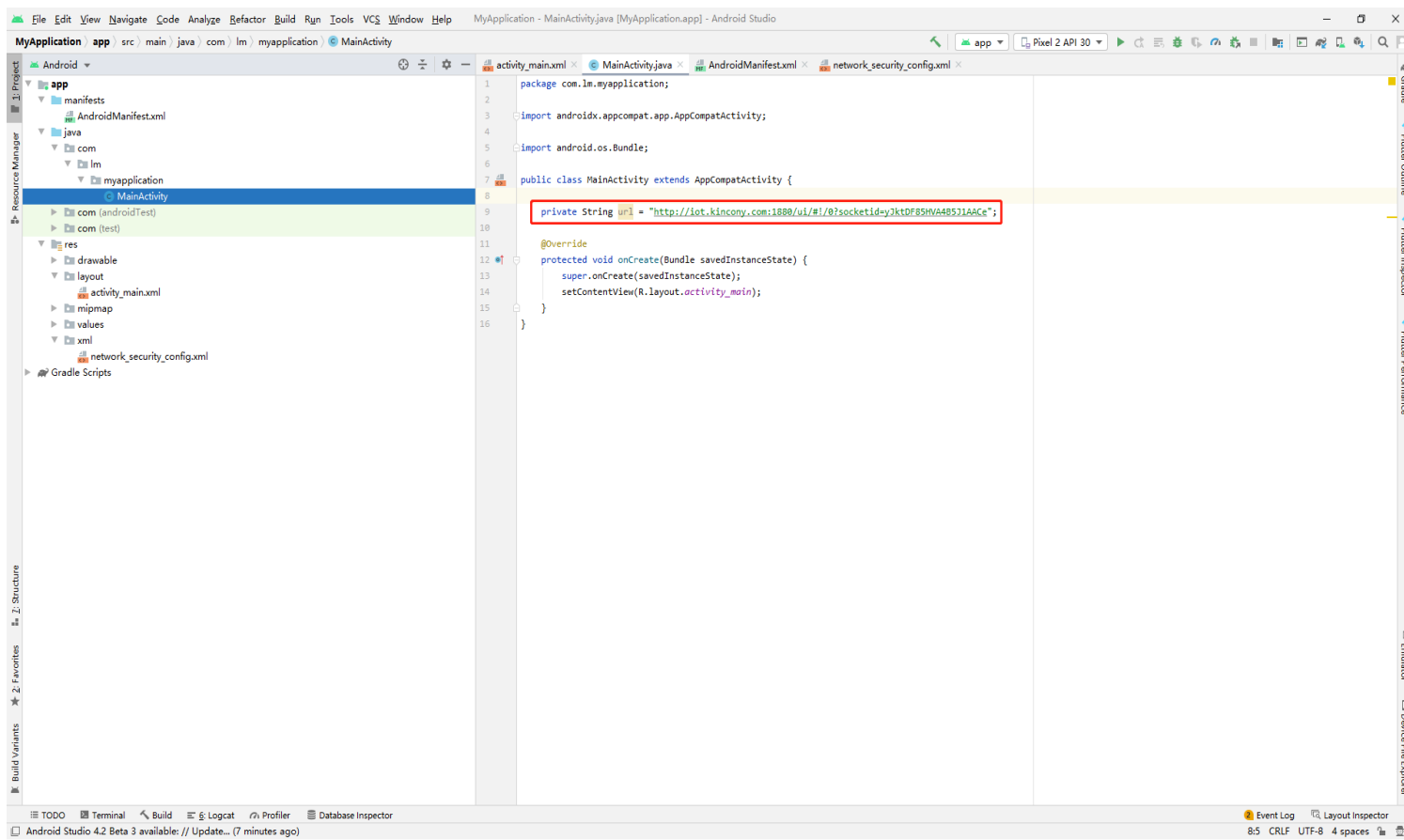


Use WebView load webpage

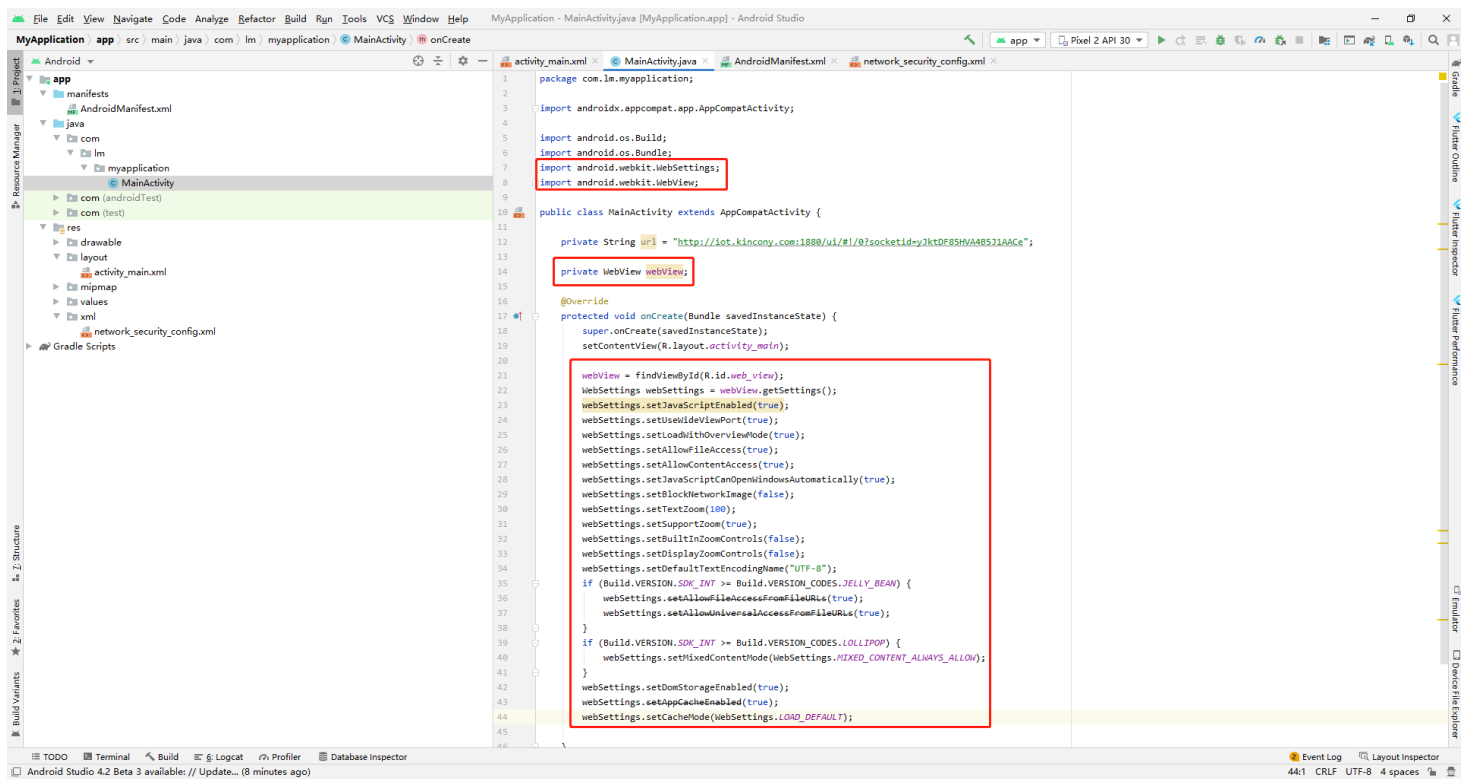
Open "MainActivity", define website url you want to open, such as:

```
private String url = "http://iot.kincony.com:1880/ui/#!/0?socketid=yJktDF85HVA4B5J1AAc";
```

This is your url.



Config WebView as red region:



Code list:

```
import android.os.Build;
```

```
import android.os.Bundle;
```

```
import android.webkit.WebSettings;
```

```
import android.webkit.WebView;
```

```
private WebView webView;
```

```
webView = findViewById(R.id.web_view);
```

```
WebSettings webSettings = webView.getSettings();
```

```
webSettings.setJavaScriptEnabled(true);
```

```
webSettings.setUseWideViewPort(true);
```

```
webSettings.setLoadWithOverviewMode(true);
```

```
webSettings.setAllowFileAccess(true);
```

```
webSettings.setAllowContentAccess(true);
```

```
webSettings.setJavaScriptCanOpenWindowsAutomatically(true);
```

```
webSettings.setBlockNetworkImage(false);
```

```
webSettings.setTextZoom(100);
```

```
webSettings.setSupportZoom(true);
```

```
webSettings.setBuiltInZoomControls(false);
```

```
webSettings.setDisplayZoomControls(false);
```

```
webSettings.setDefaultTextEncodingName("UTF-8");
```

```
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.JELLY_BEAN) {
```

```
    webSettings.setAllowFileAccessFromFileURLs(true);
```

```
    webSettings.setAllowUniversalAccessFromFileURLs(true);
```

```
}
```

```
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.LOLLIPOP) {
```

```
    webSettings.setMixedContentMode(WebSettings.MIXED_CONTENT_ALWAYS_ALLOW);
```

```
}
```

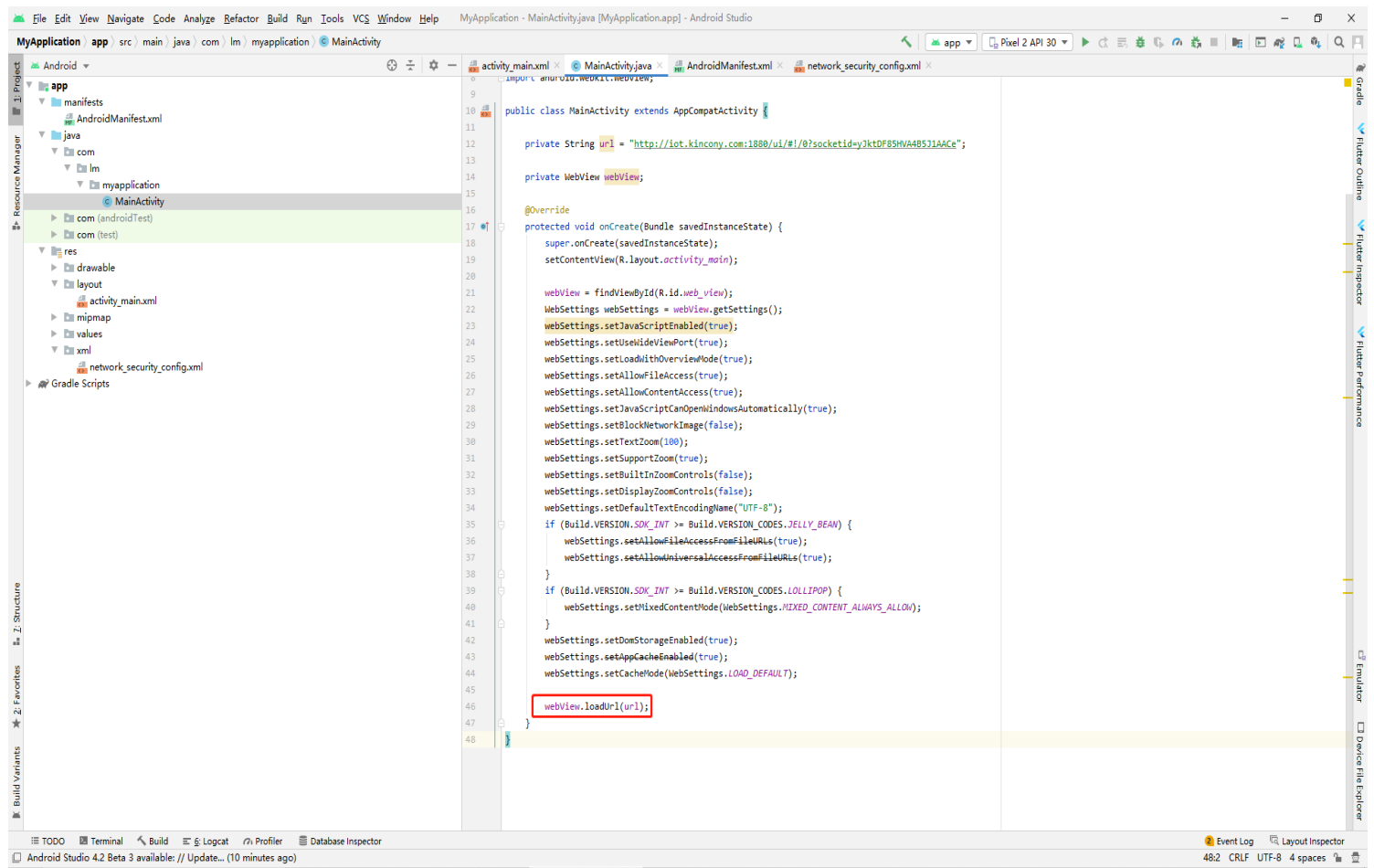
```
webSettings.setDomStorageEnabled(true);
```

```
webSettings.setAppCacheEnabled(true);
```

```
webSettings.setCacheMode(WebSettings.LOAD_DEFAULT);
```

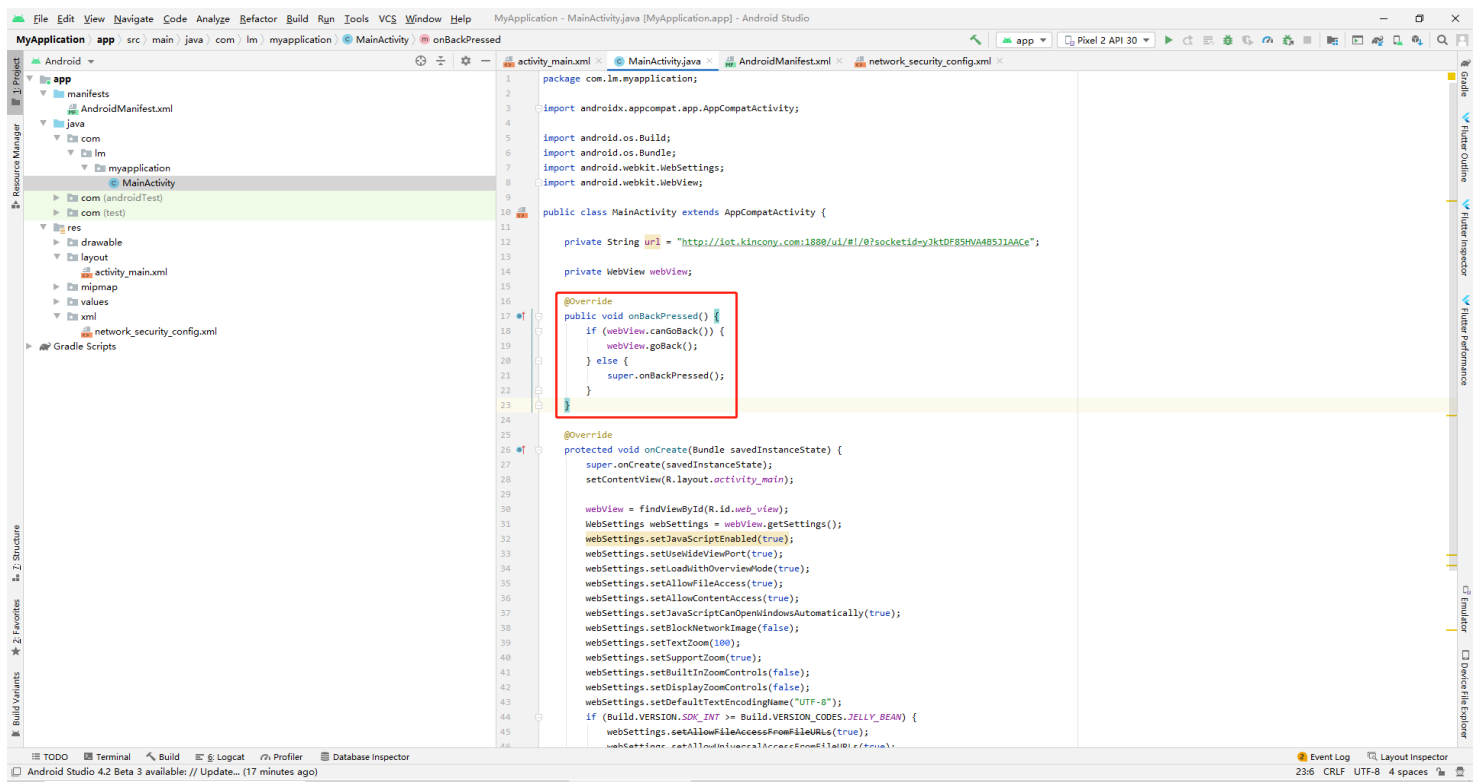
```
webView.loadUrl(url);
```

Config completed.



Return button and click event

Open "MainActivity" add these code:



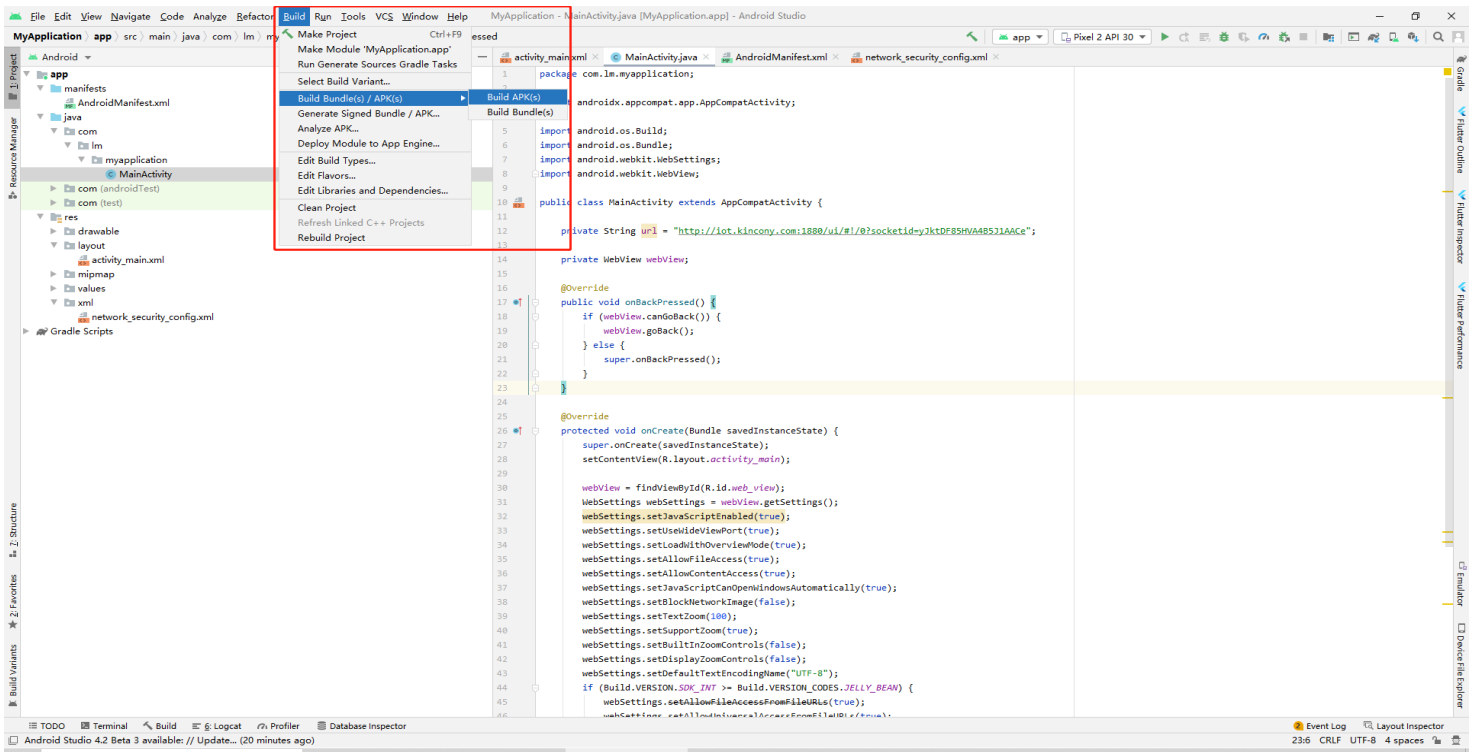
Code list:

@Override

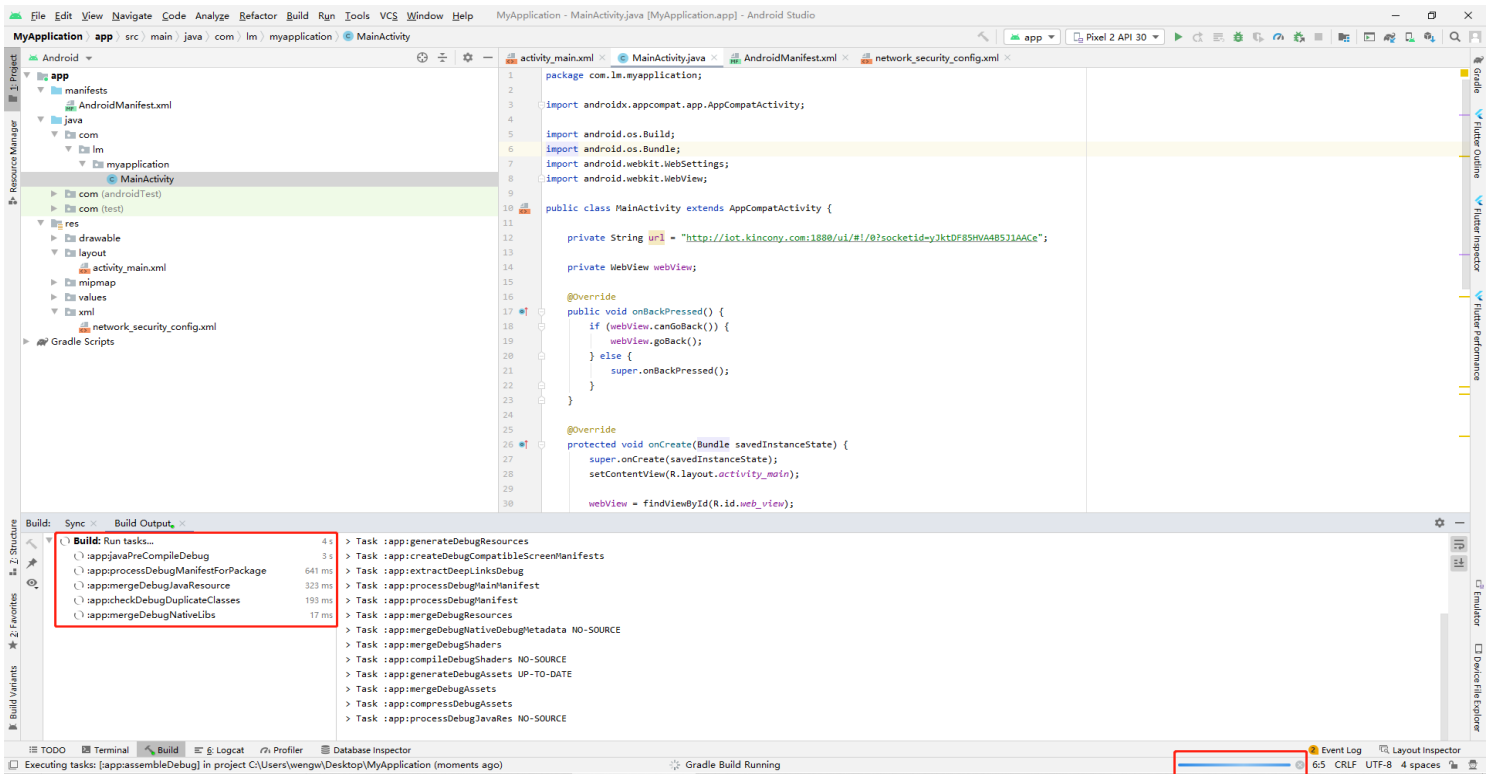
```
public void onBackPressed() {
    if (webView.canGoBack()) {
        webView.goBack();
    } else {
        super.onBackPressed();
    }
}
}
```

Debug

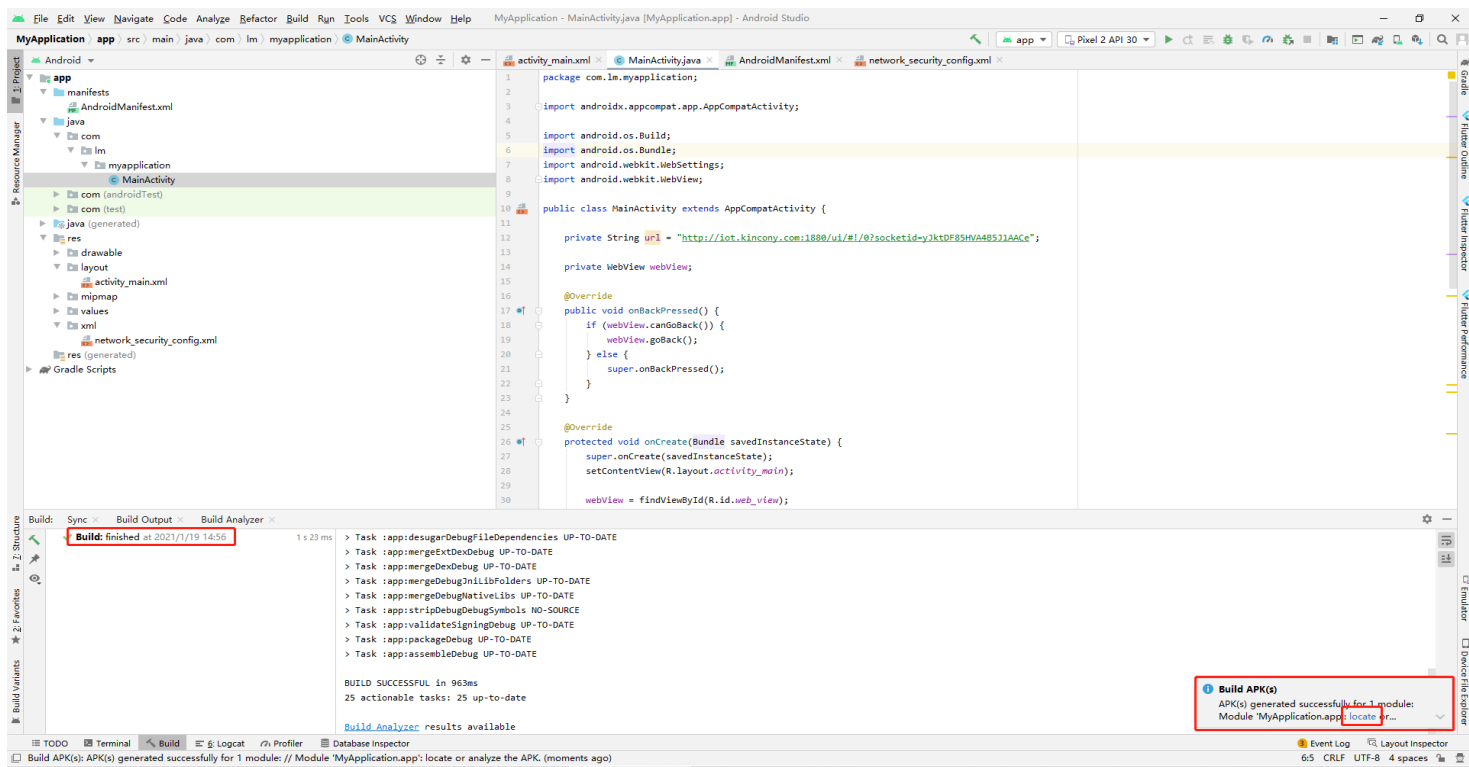
Click Build-->Build Bunle(s)/APK(s)-->Build APK(s) Compile the project into an APK file



Waiting Android Studio compile, it will take about 1 minute.

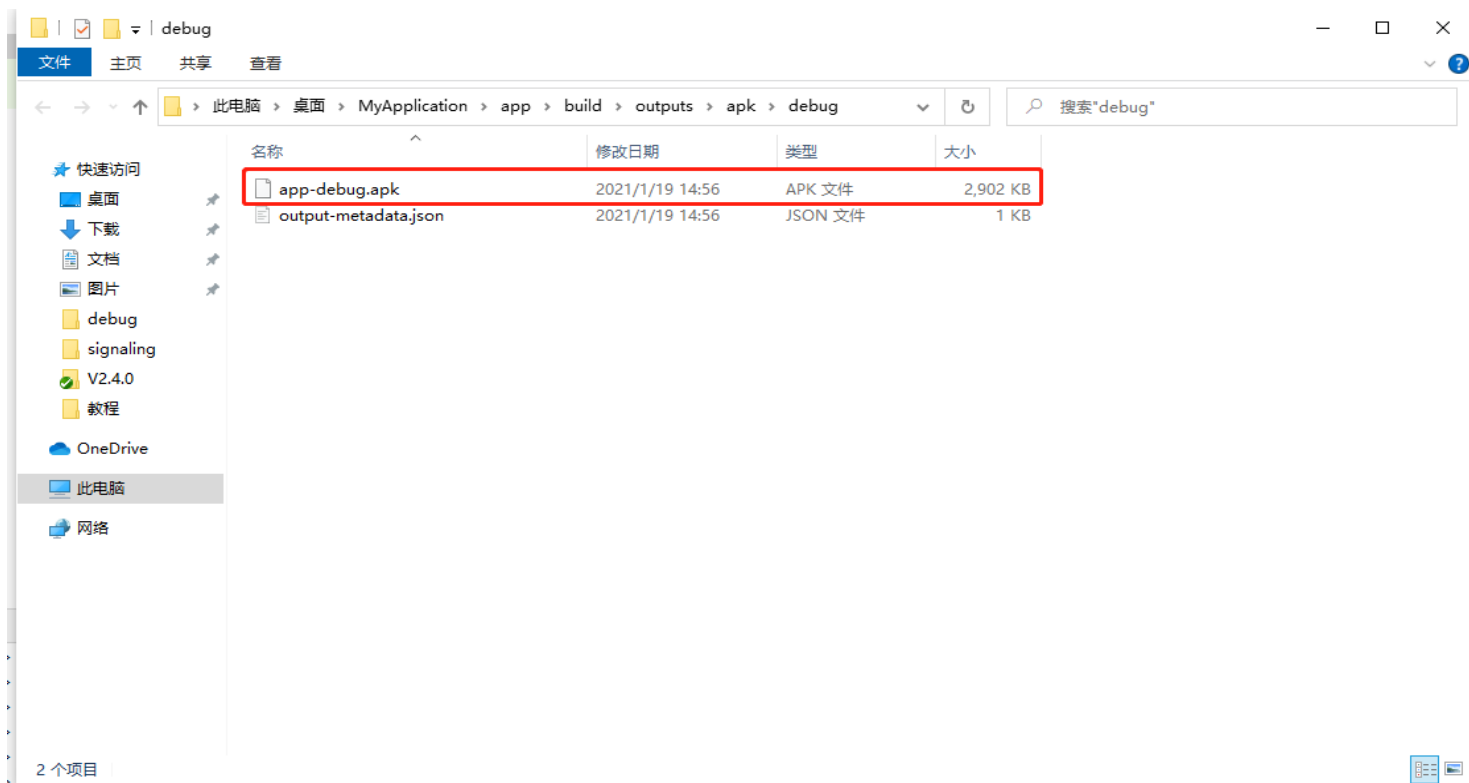


After compiling, a prompt will pop up. Click the "locate" button on the prompt to directly open the APK file directory



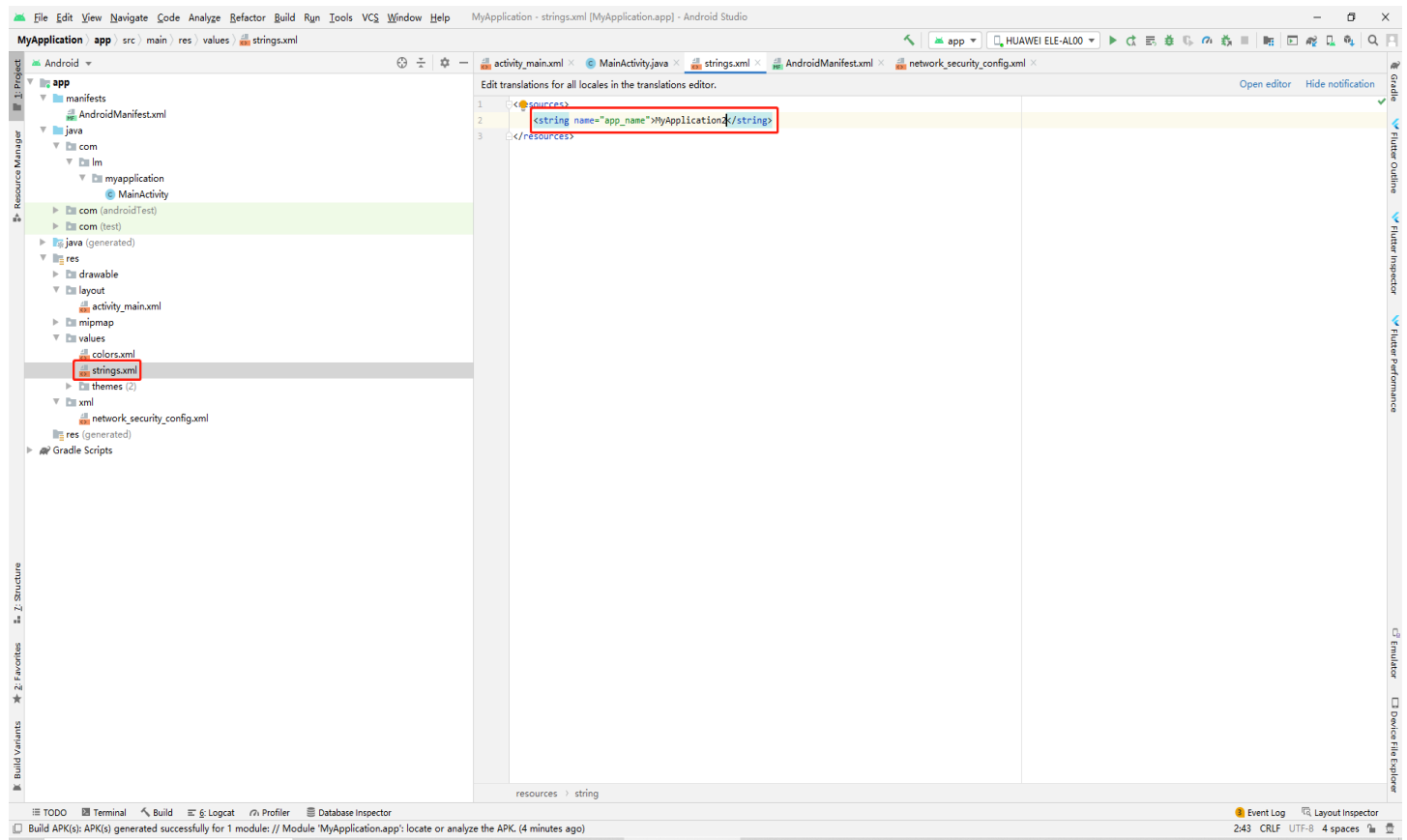
If there is no pop-up prompt, you can also search under the save location path defined before.

“Save location” path: app/build/outputs/apk/debug



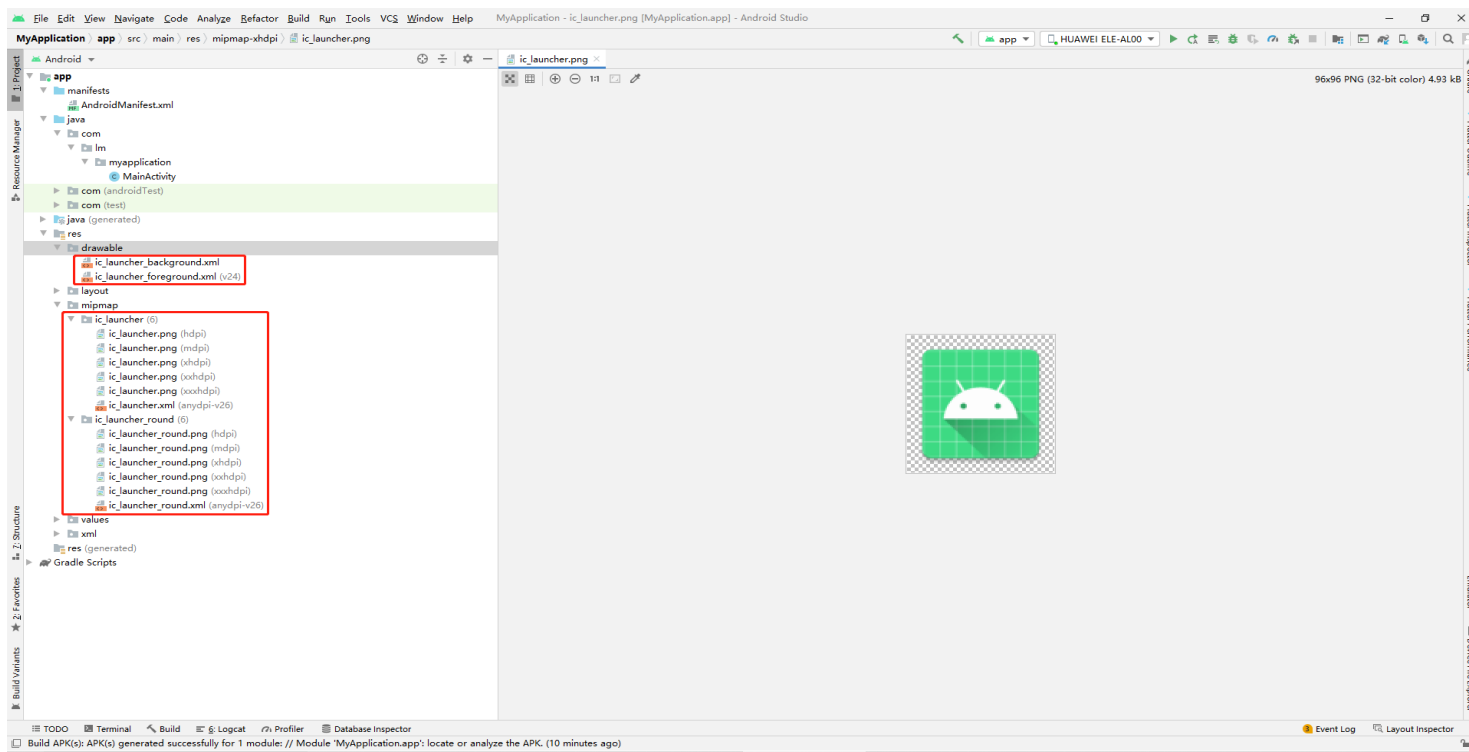
Modify application name

Open `res/values/string.xml`, modify `app_name`. Now our application name is “MyApplication2”

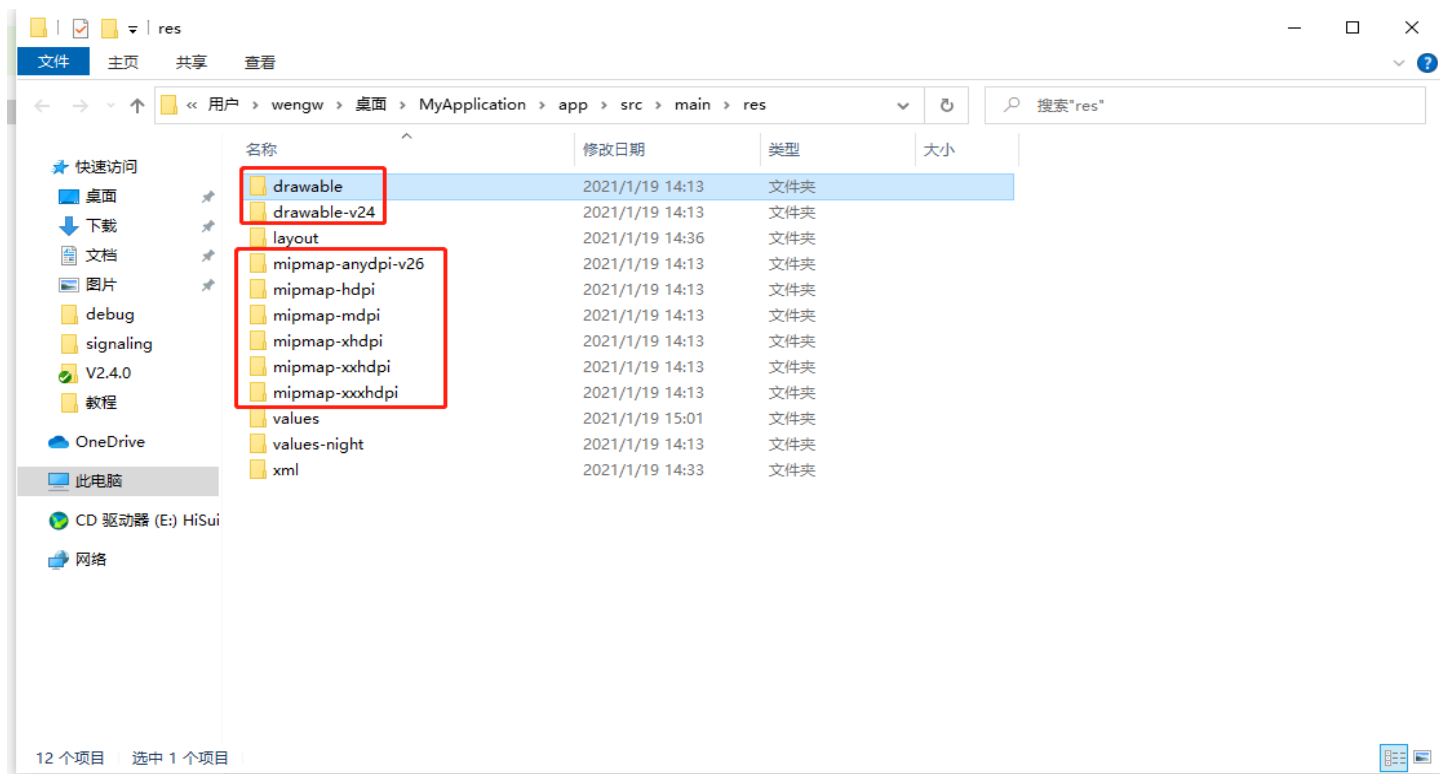


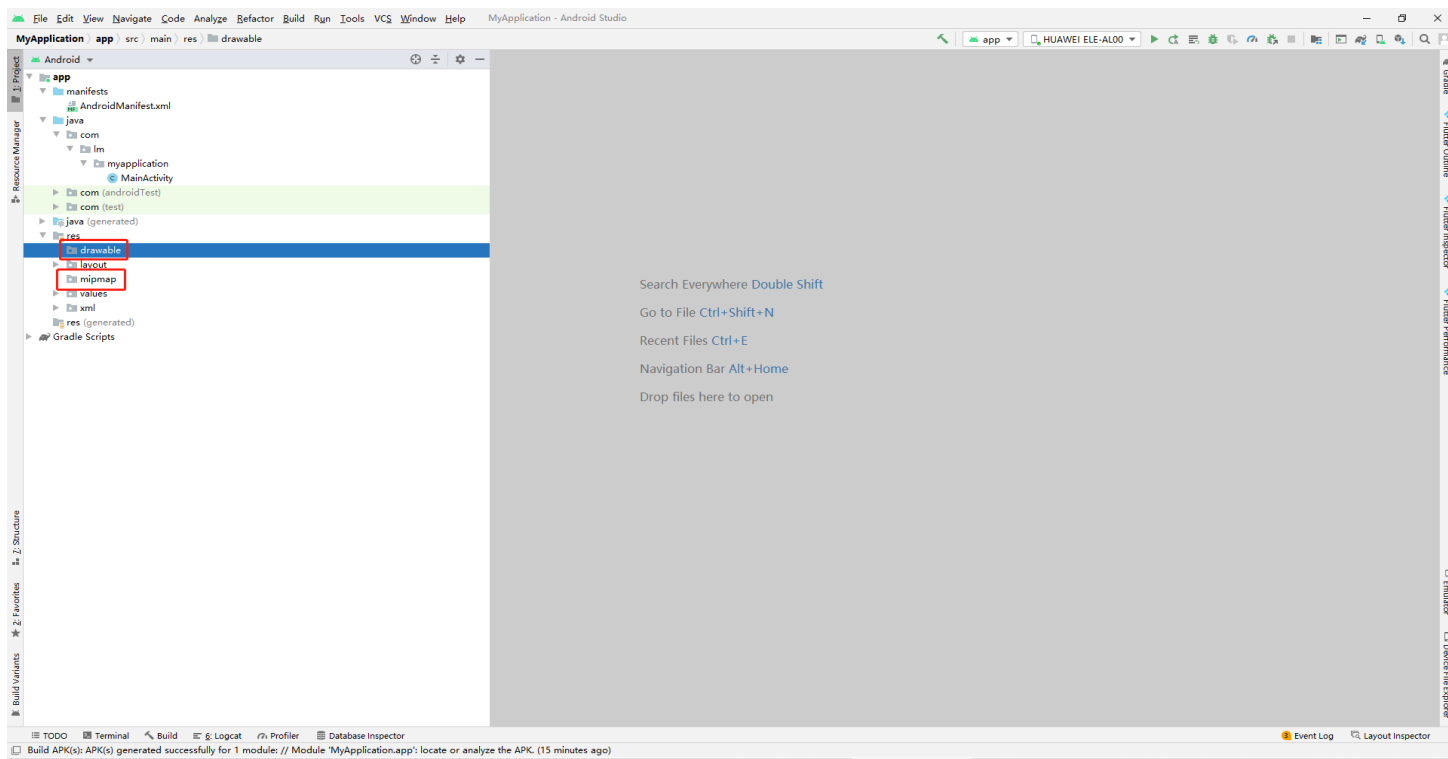
Modify application ico

“res/drawable” and “res/mipmap” folder, Here is the icon generated by Android studio for us by default. `IC_launcher.png` Represents a square icon, `IC_launcher_round.png` Represents a circular icon, which use for different mobile phones.

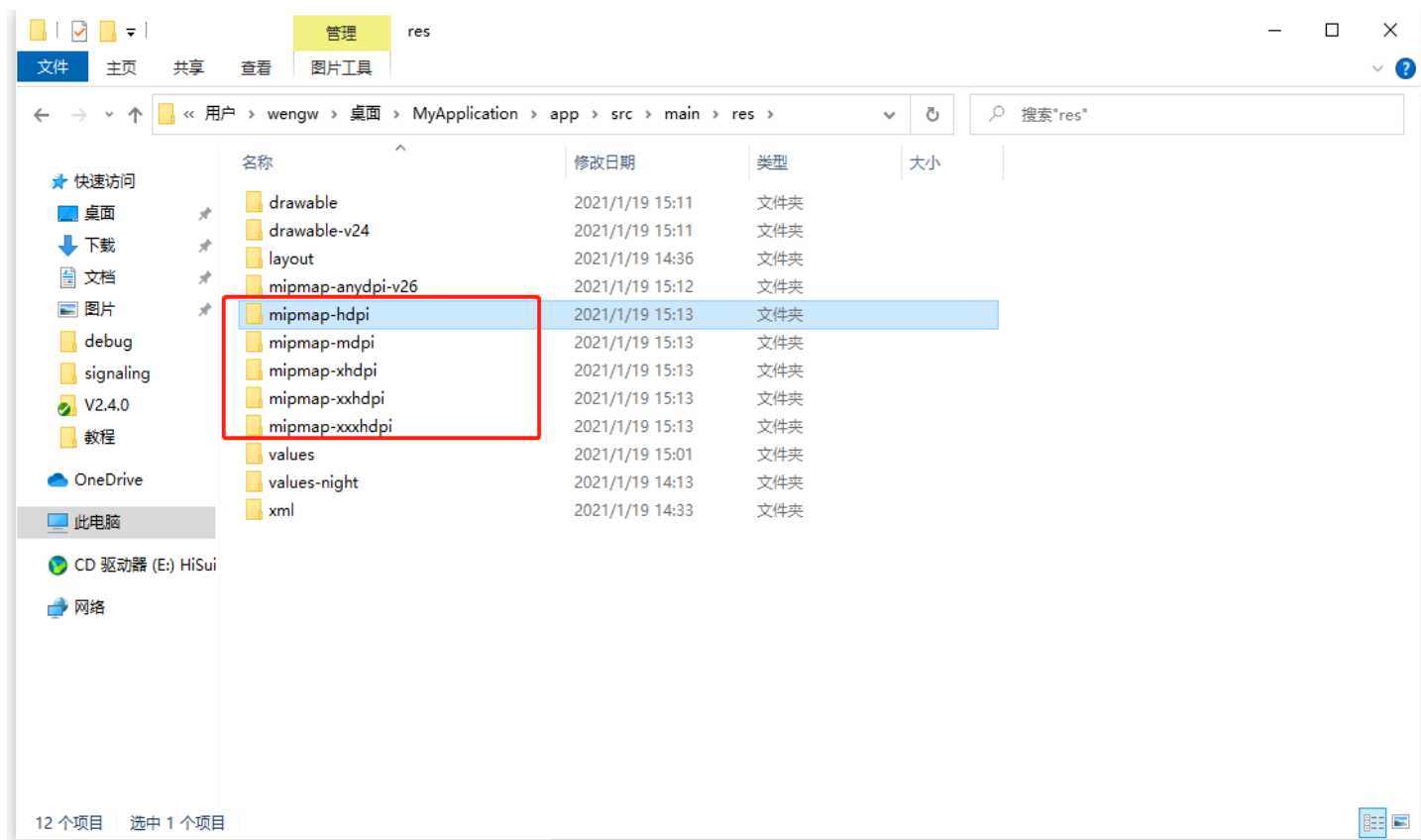


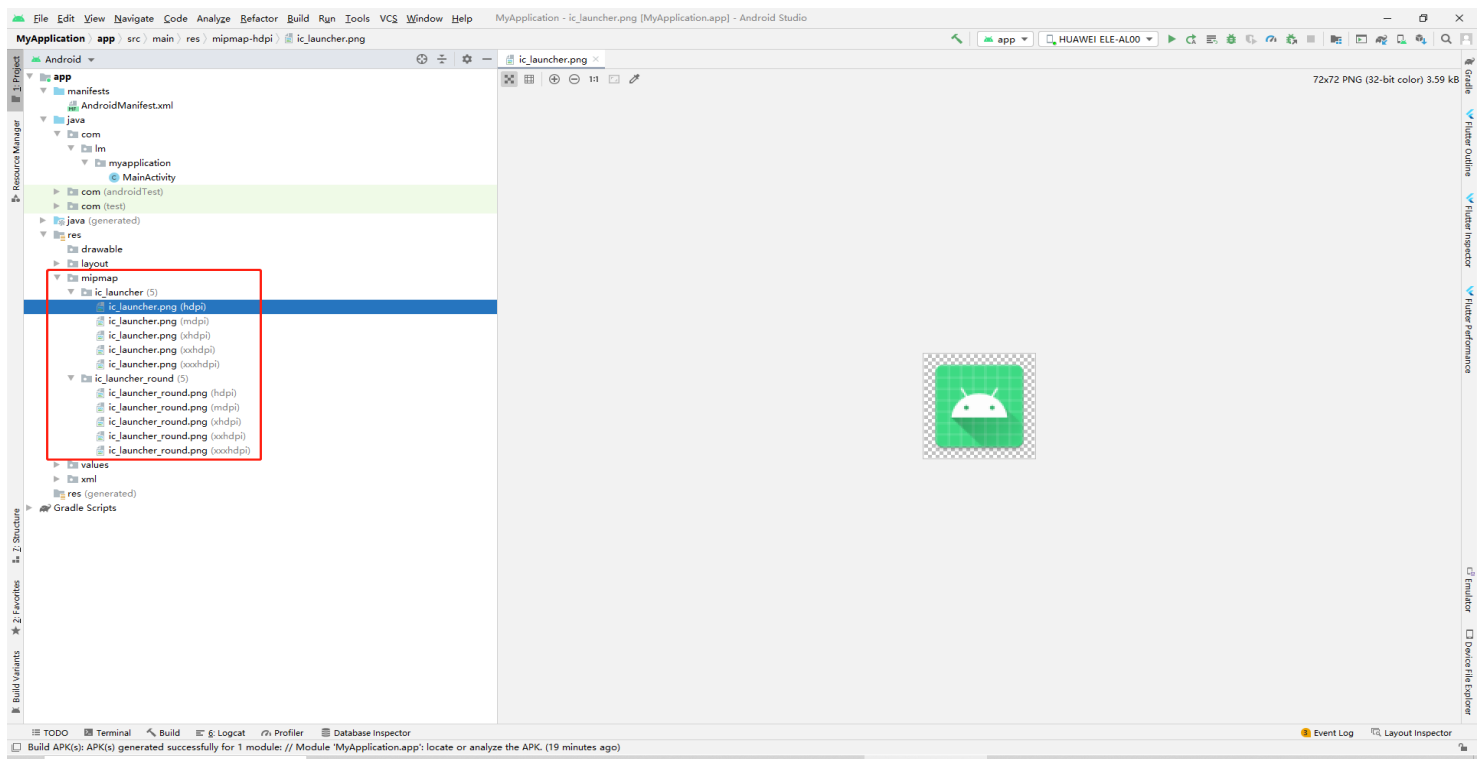
Open Save location: app/src/main/res folder, delete default folder.





Copy our new file and folder to this path

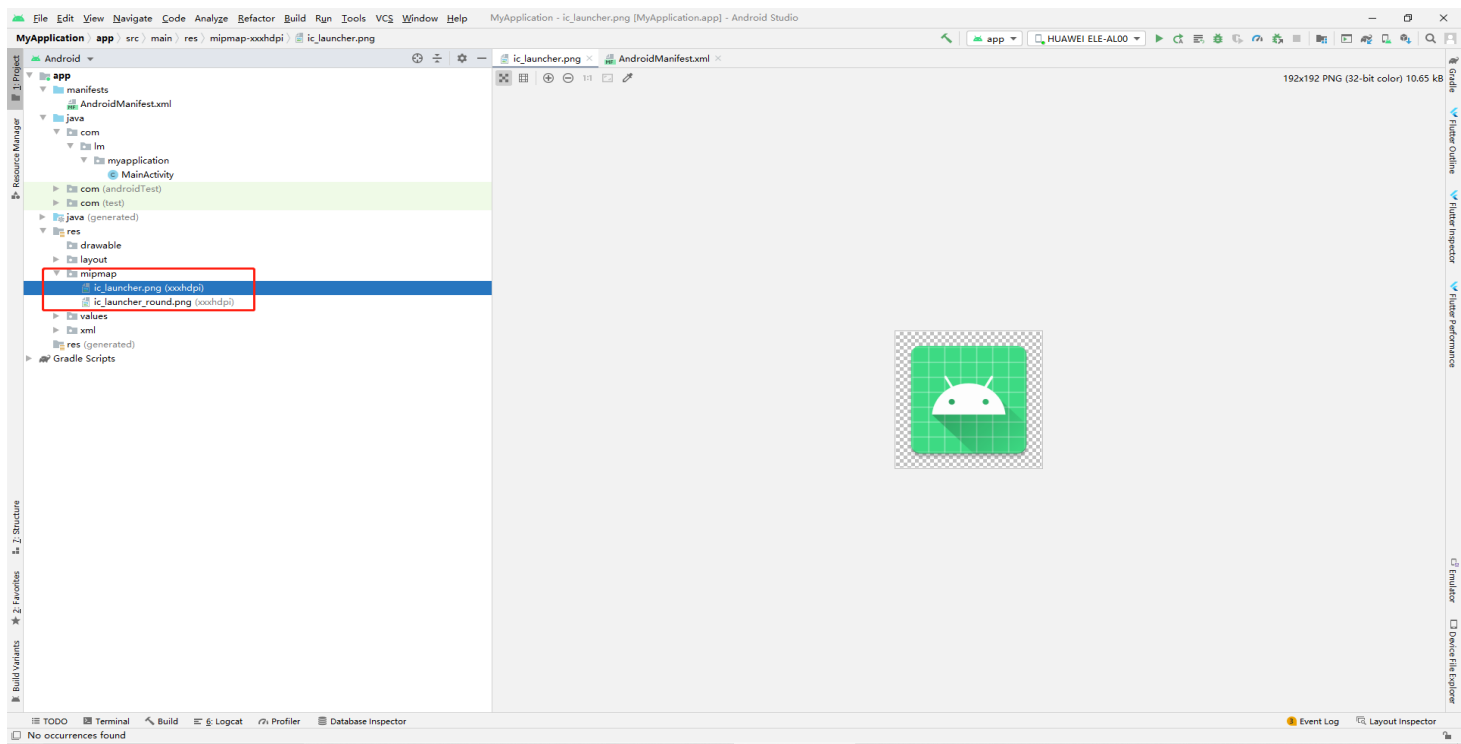




It should be noted that different resolutions are required for different folders.

folder	ico resolutions
mipmap-hdpi	72*72
mipmap-mdpi	48*48
mipmap-xhdpi	96*96
mipmap-xxhdpi	144*144
mipmap-xxxhdpi	192*192

If you not make all types of ico, you only need make ico for “mipmap-xxhdpi” or “mipmap-xxxhdpi” folder is ok.



After change the ico file, click “Build-->Build Bundle(s)/APK(s)-->Build APK(s)” recompile the project to APK file.