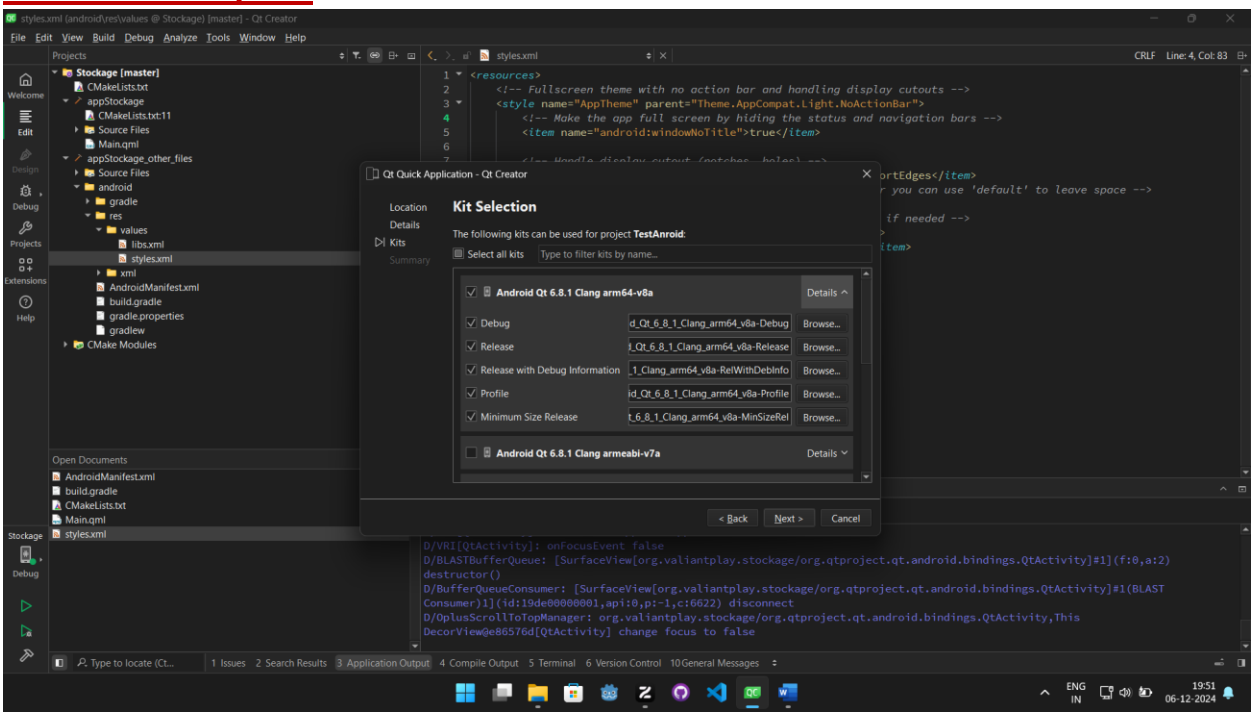
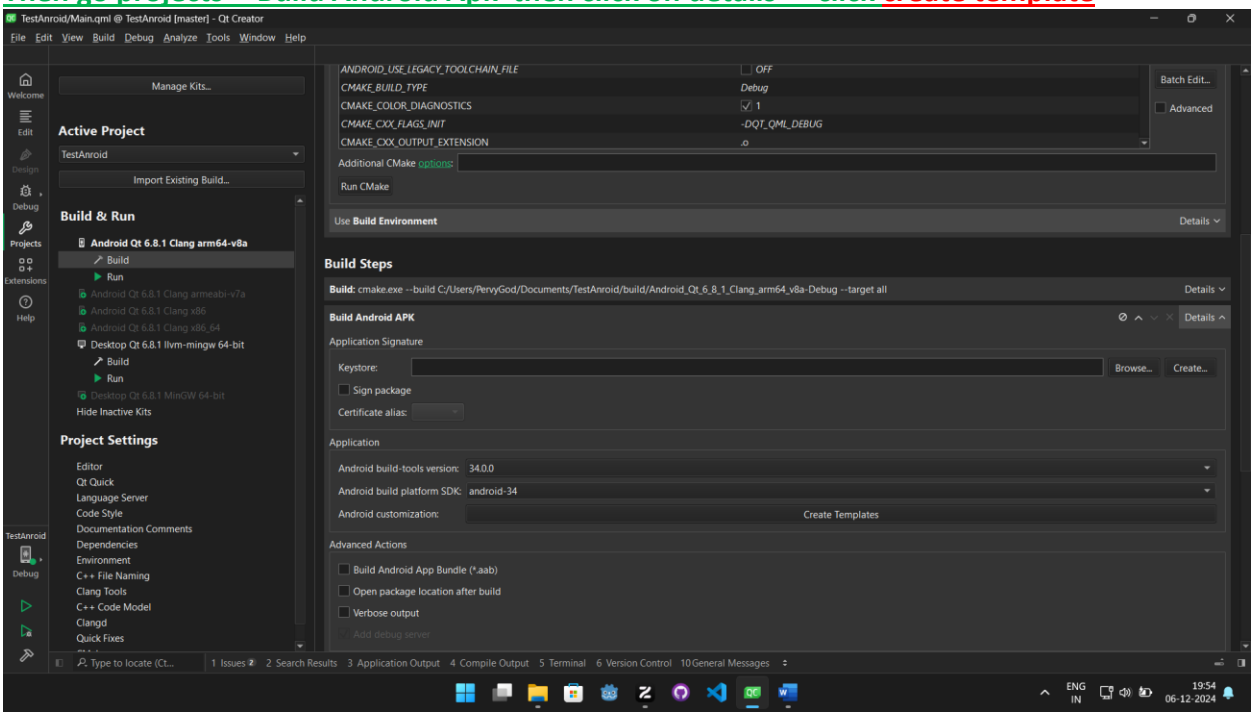
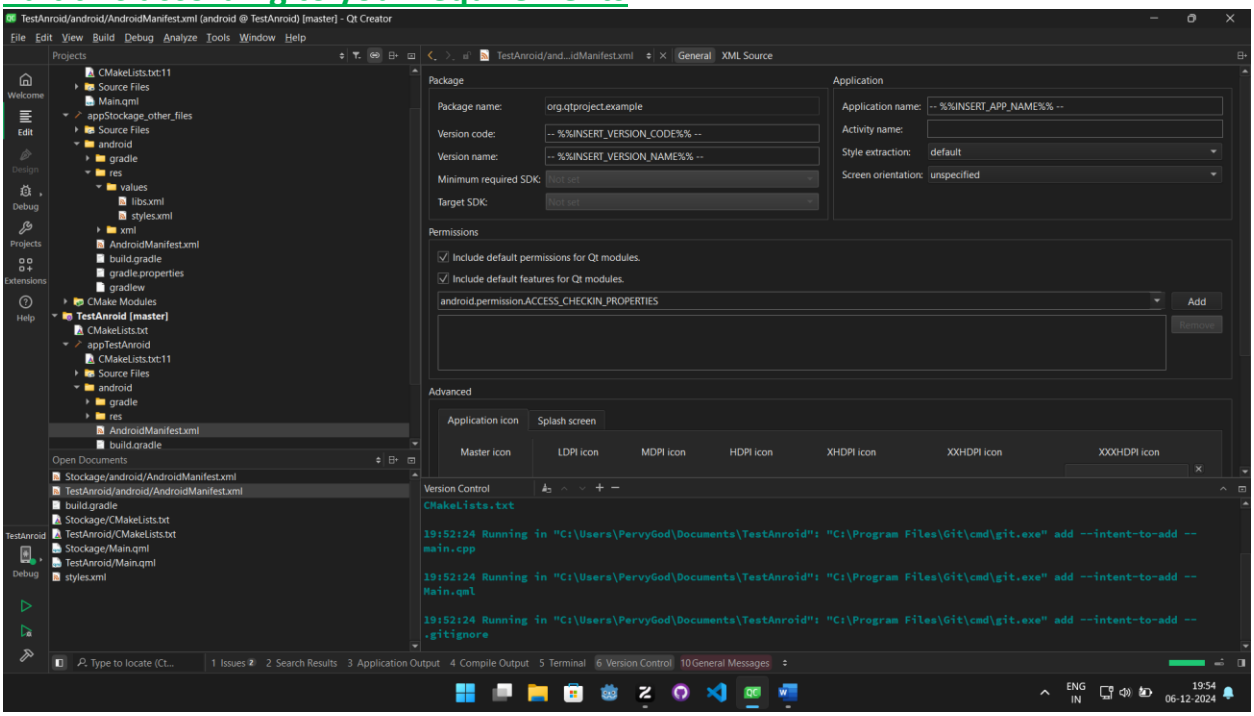
Steps to Build Application for Android using Qt QML

- Create Project



- **Then go projects ->Build Android Apk then click on details -> click create template**

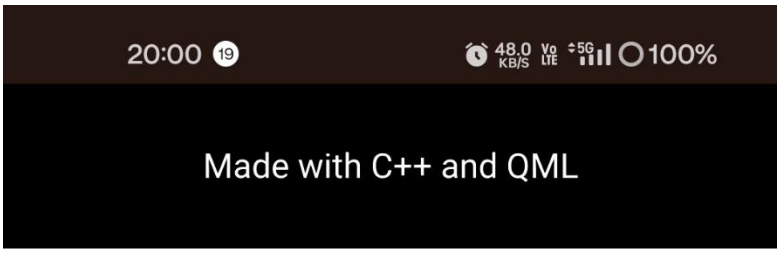


- **Edit this according to your requirements**
- 

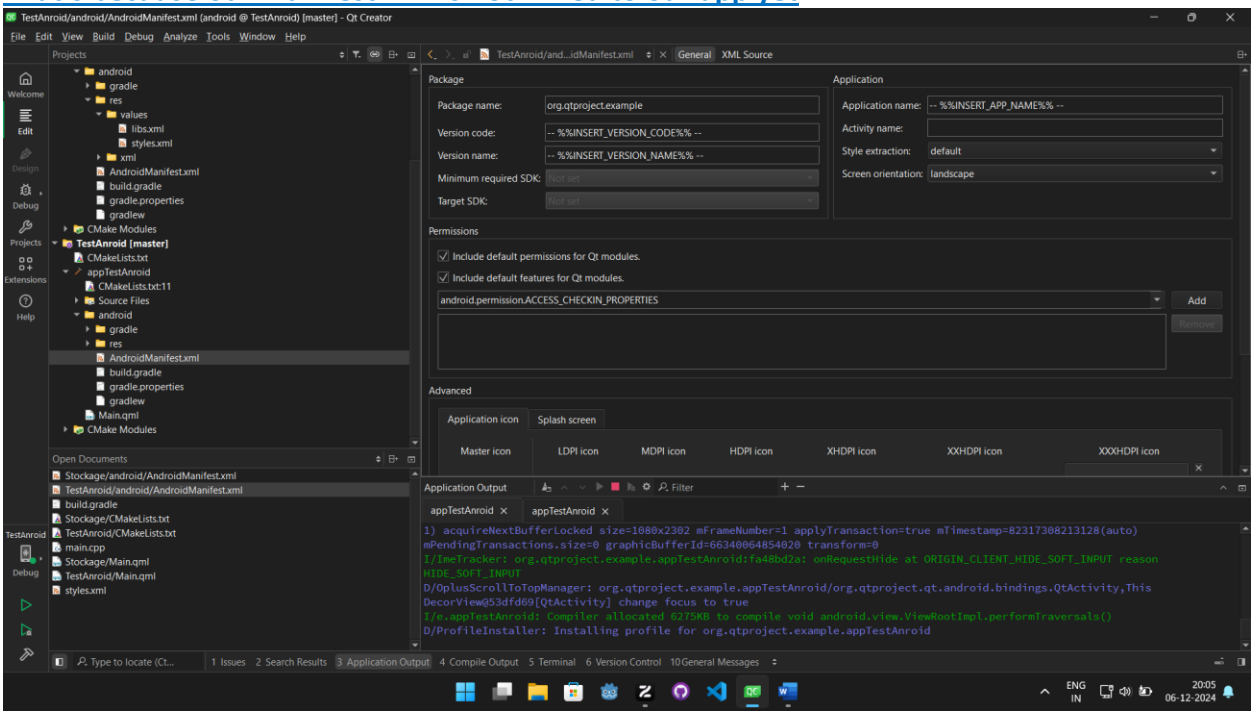
QML

```
import QtQuick
import QtQuick.Controls
ApplicationWindow {
   width: 640
   height: 480
   visible: true
   Rectangle
   {
      anchors
      {
         left:parent.left
         right:parent.right
         top:parent.top
      }
      height:parent.height*0.1
      color:"black"
      Text
      {
         text:"Made with C++ and QML"
         anchors.centerIn:parent
         color:"white"
         font.pixelSize:16
      }
   }
```

}


20:00
19
48.0
KB/S
Vo
LTE
5G
100%
Made with C++ and QML

As u can see if I even set the screen orientation to landscape it's still running in portrait mode That's because our manifest.xml is not linked to our app yet



in order to use this AndroidManifest.xml in your project u have to edit CMake.txt

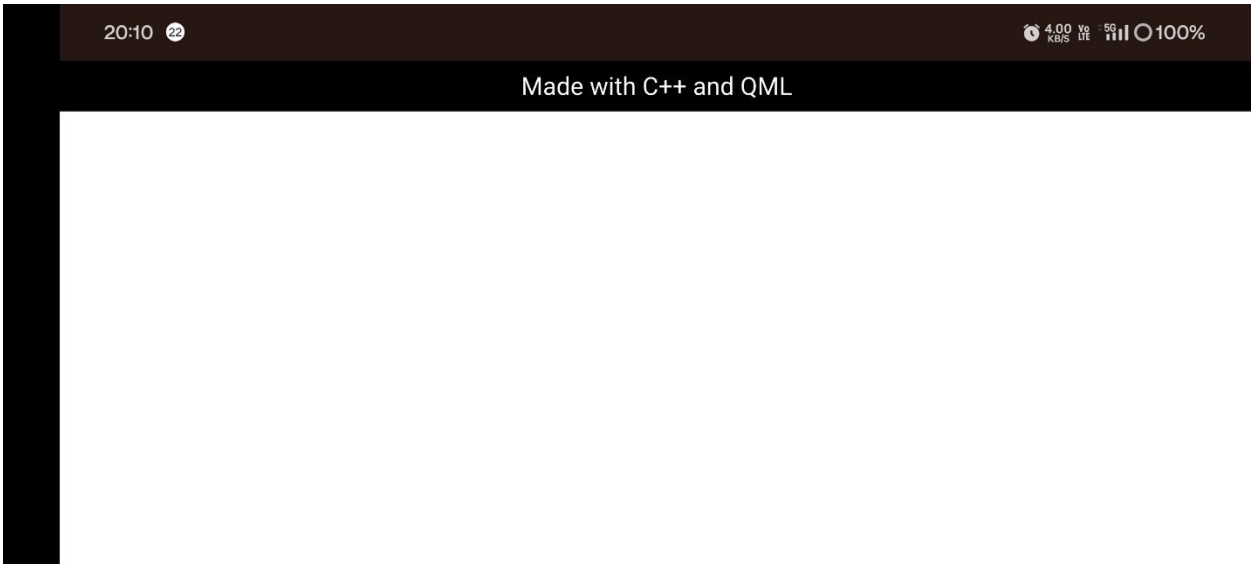
CMAKE CODE :

```
set_property(TARGET app${PROJECT_NAME} APPEND PROPERTY
   QT_ANDROID_PACKAGE_SOURCE_DIR ${CMAKE_CURRENT_SOURCE_DIR}/android
)

qt_finalize_executable(app${PROJECT_NAME})
```

NOTE: don't add these lines to top of ur cmake file append these lines to end of ur cmake

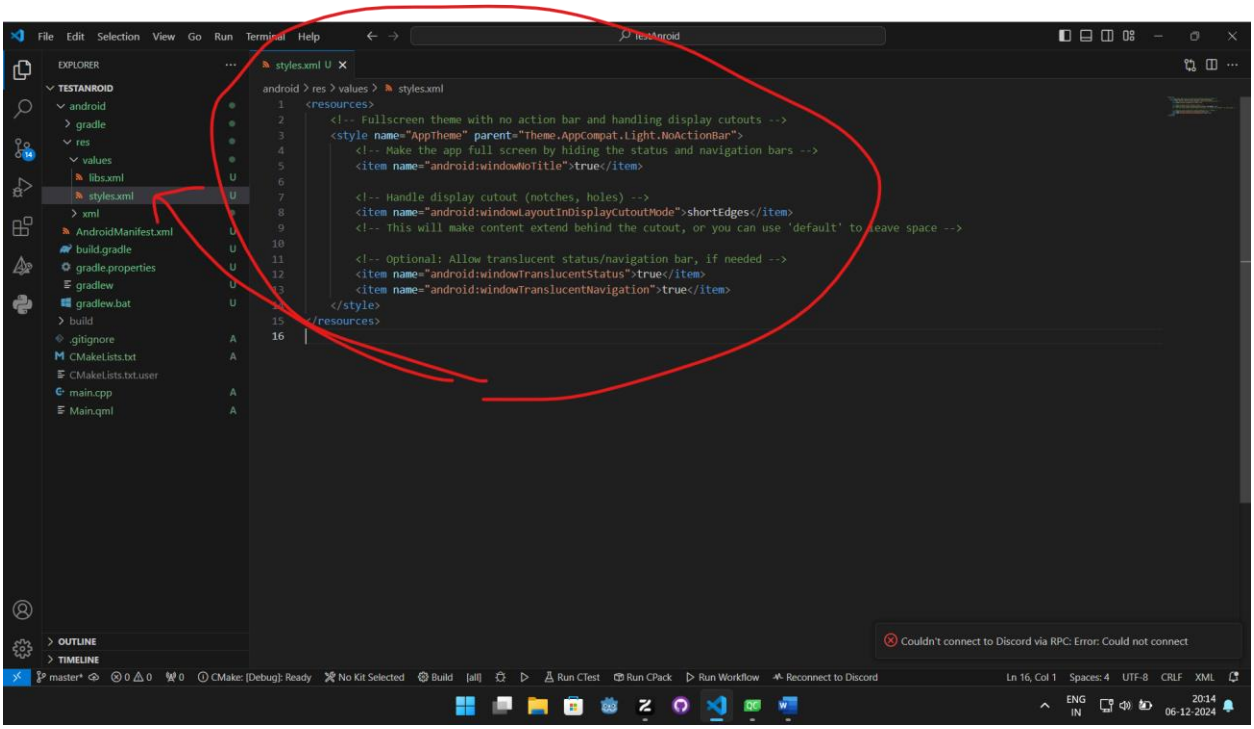
After that rebuild

As you can see now our app is in landscape orientation



Customizing android theme:

[Create styles.xml in ur project_name/android/res/values/]

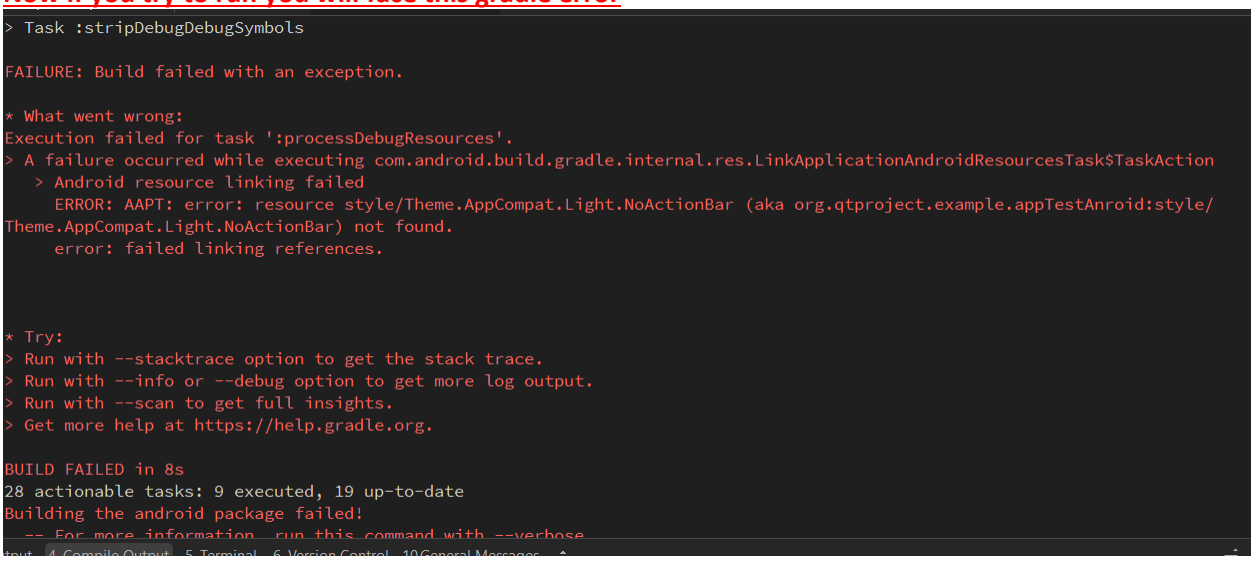


Add this code to ur styles.xml or customize ur theme according to ur need

styles.xml:

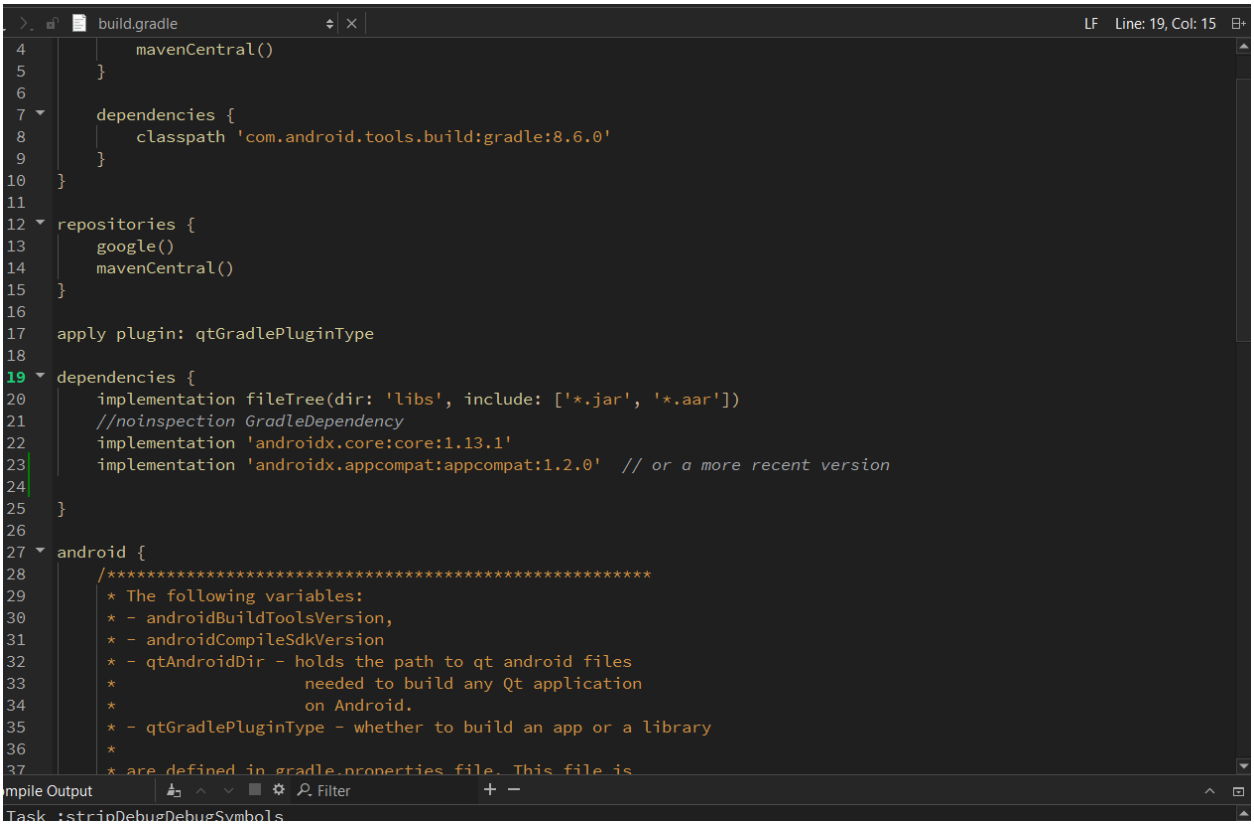
```
<resources>
   <!-- Fullscreen theme with no action bar and handling display cutouts -->
   <style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">
      <!-- Make the app full screen by hiding the status and navigation bars -->
      <item name="android:windowNoTitle">true</item>
      <item name="android:windowFullscreen">true</item>
      <!-- Handle display cutout (notches, holes) -->
      <item name="android:windowLayoutInDisplayCutoutMode">shortEdges</item>
      <!-- This will make content extend behind the cutout, or you can use 'default' to leave space -->

      <!-- Optional: Allow translucent status/navigation bar, if needed -->
      <item name="android:windowTranslucentStatus">true</item>
      <item name="android:windowTranslucentNavigation">true</item>
      <!-- Customize your theme here. -->
      <item name="colorPrimary">#000000</item>
      <item name="colorPrimaryDark">#000000</item>
      <item name="colorAccent">#0000FF</item>
      <item name="android:statusBarColor">#000000</item>
   </style>
</resources>
```

Now if you try to run you will face this gradle error



To solve this you have to edit gradle file

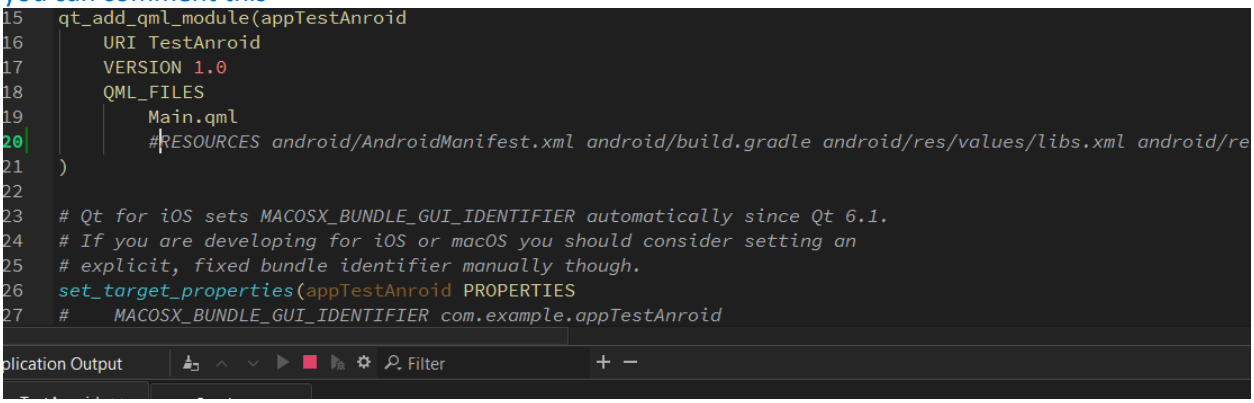
Like this



We have to add dependencies to our build.gradle

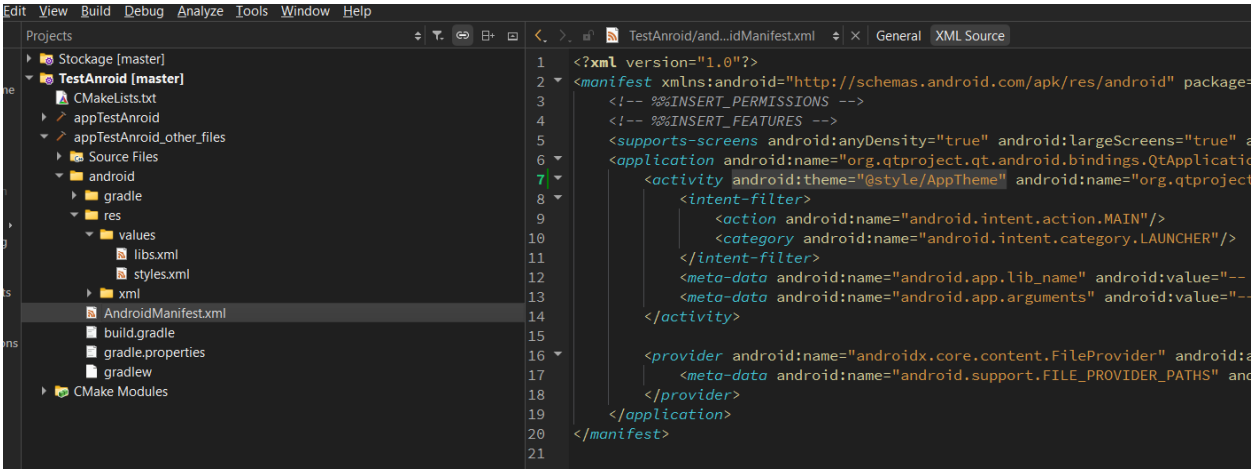
implementation 'androidx.appcompat:appcompat:1.2.0' // or a more recent version

you can comment this



And after this to use styles.xml we just create in our application we have edit manifest.xml file

android:theme="@style/AppTheme" in your <application>



Build and test it
That’s it 😊
Best regards
Vishal Ahirwar