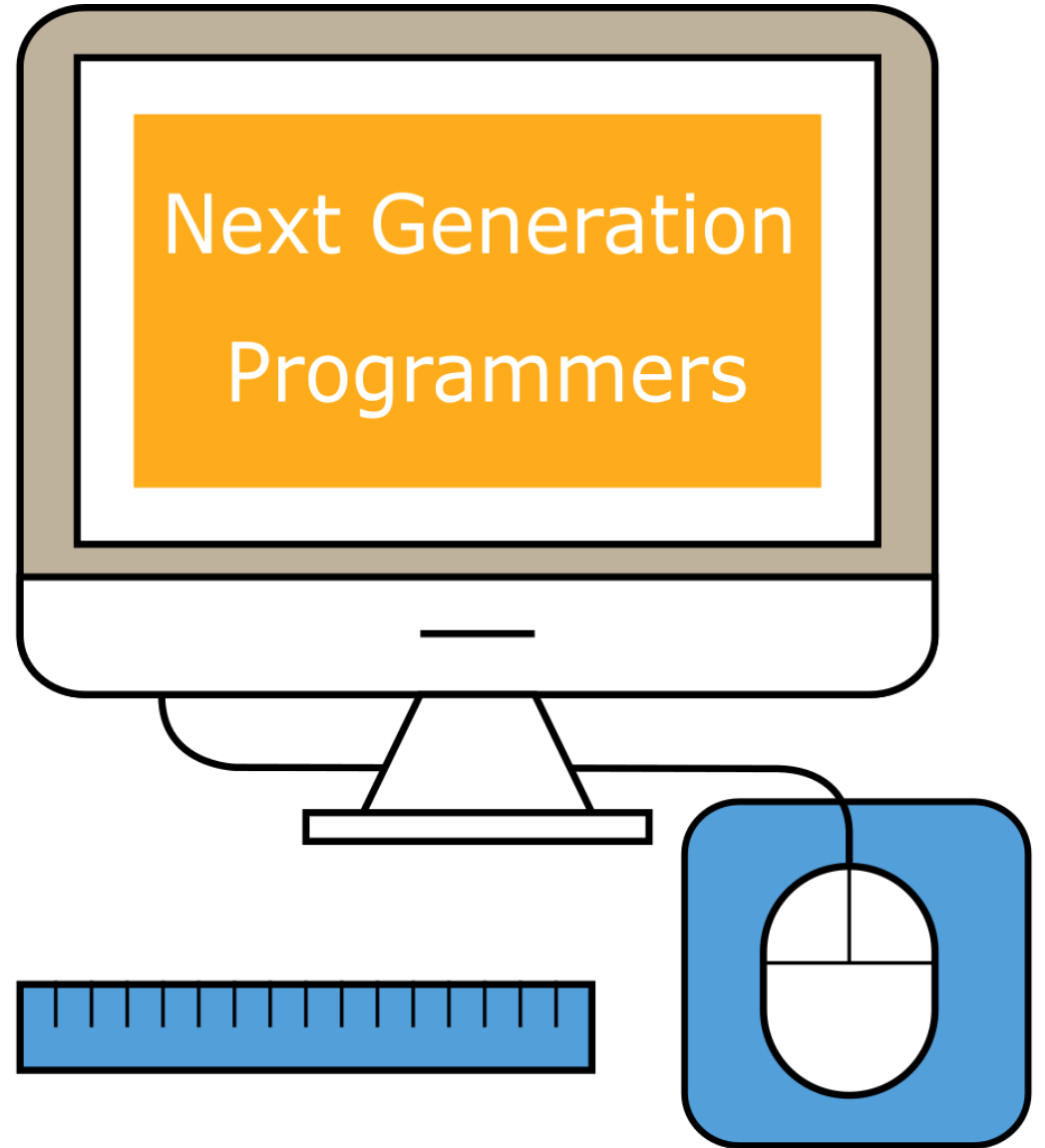
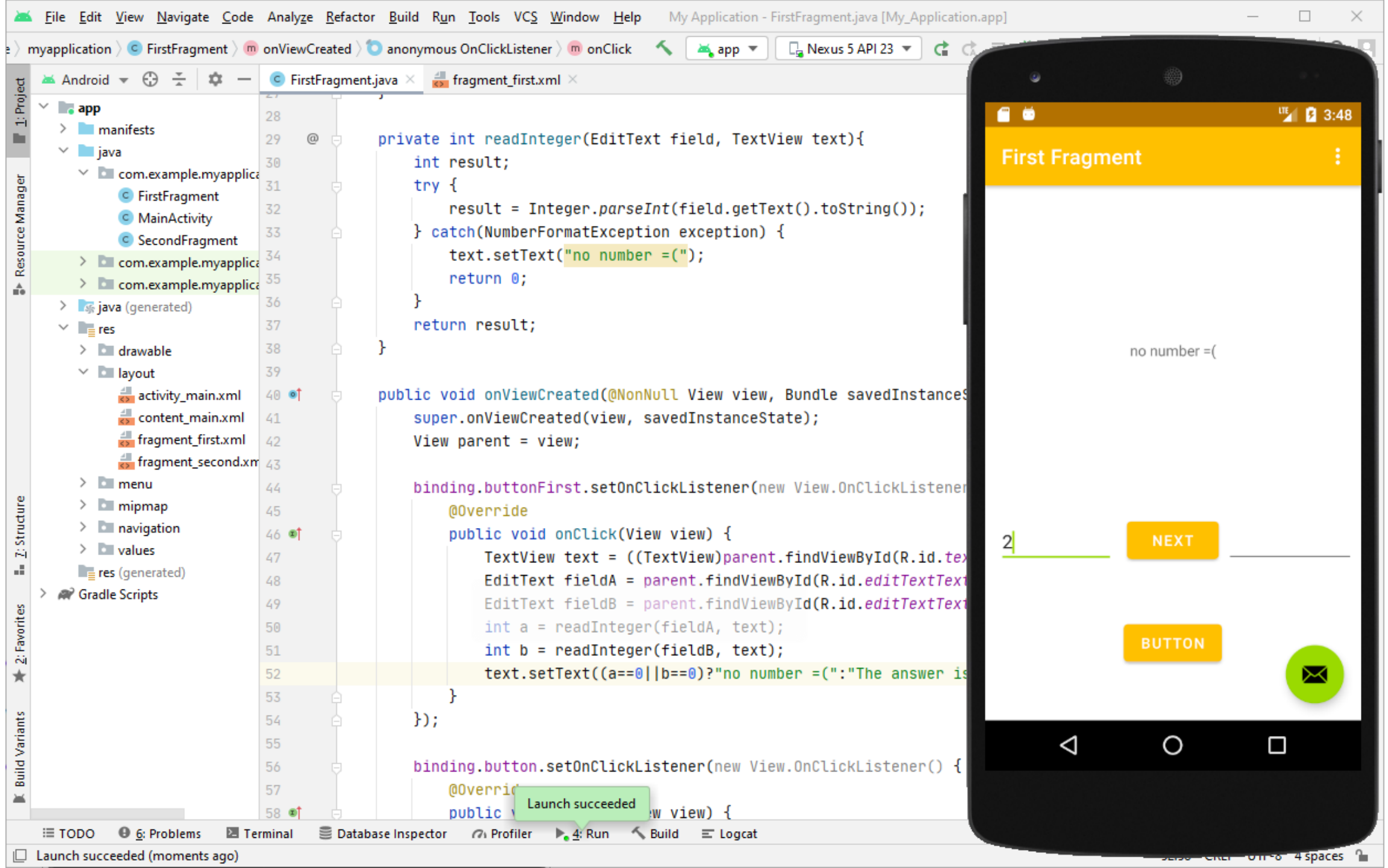


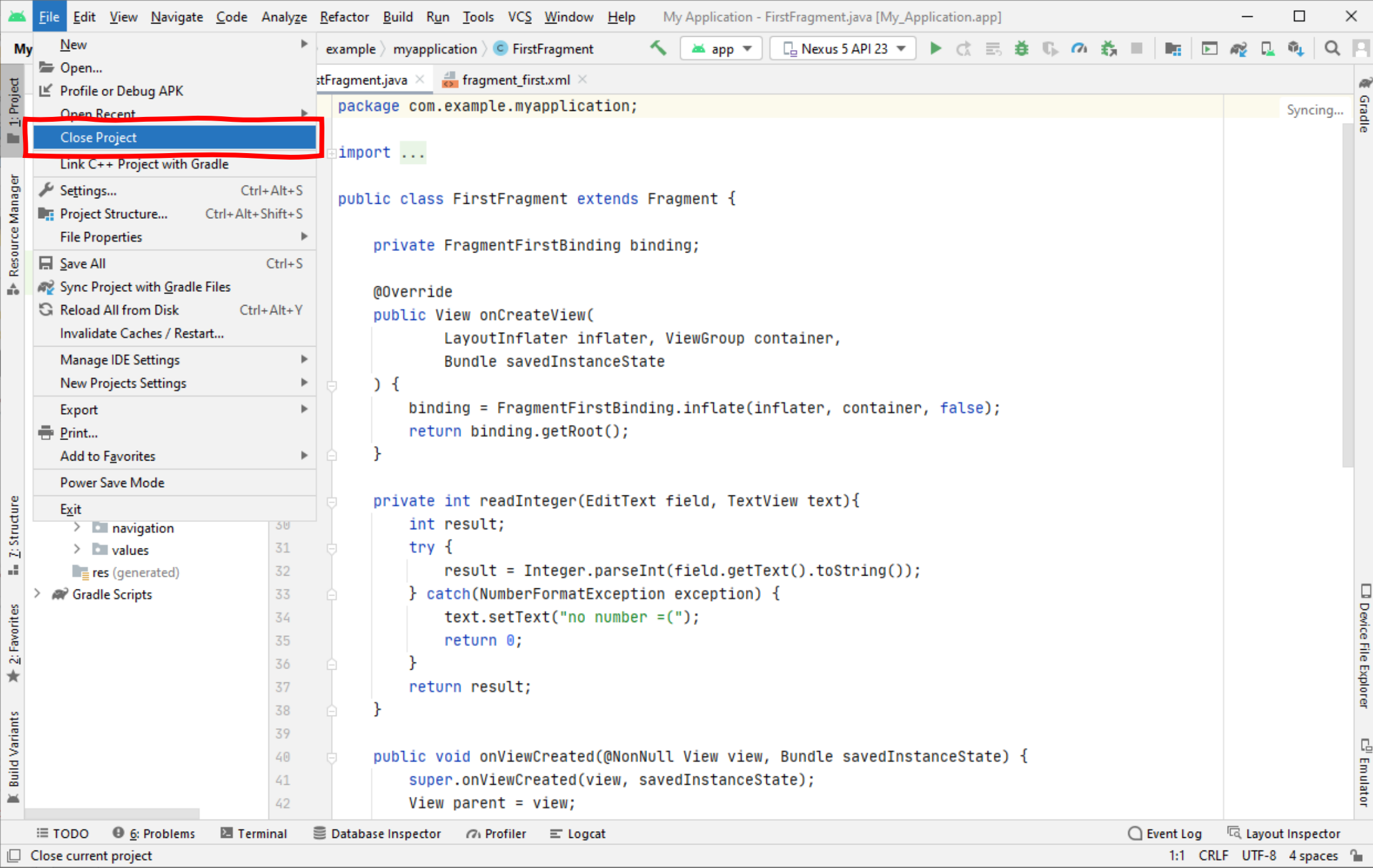
App development in Android Studio

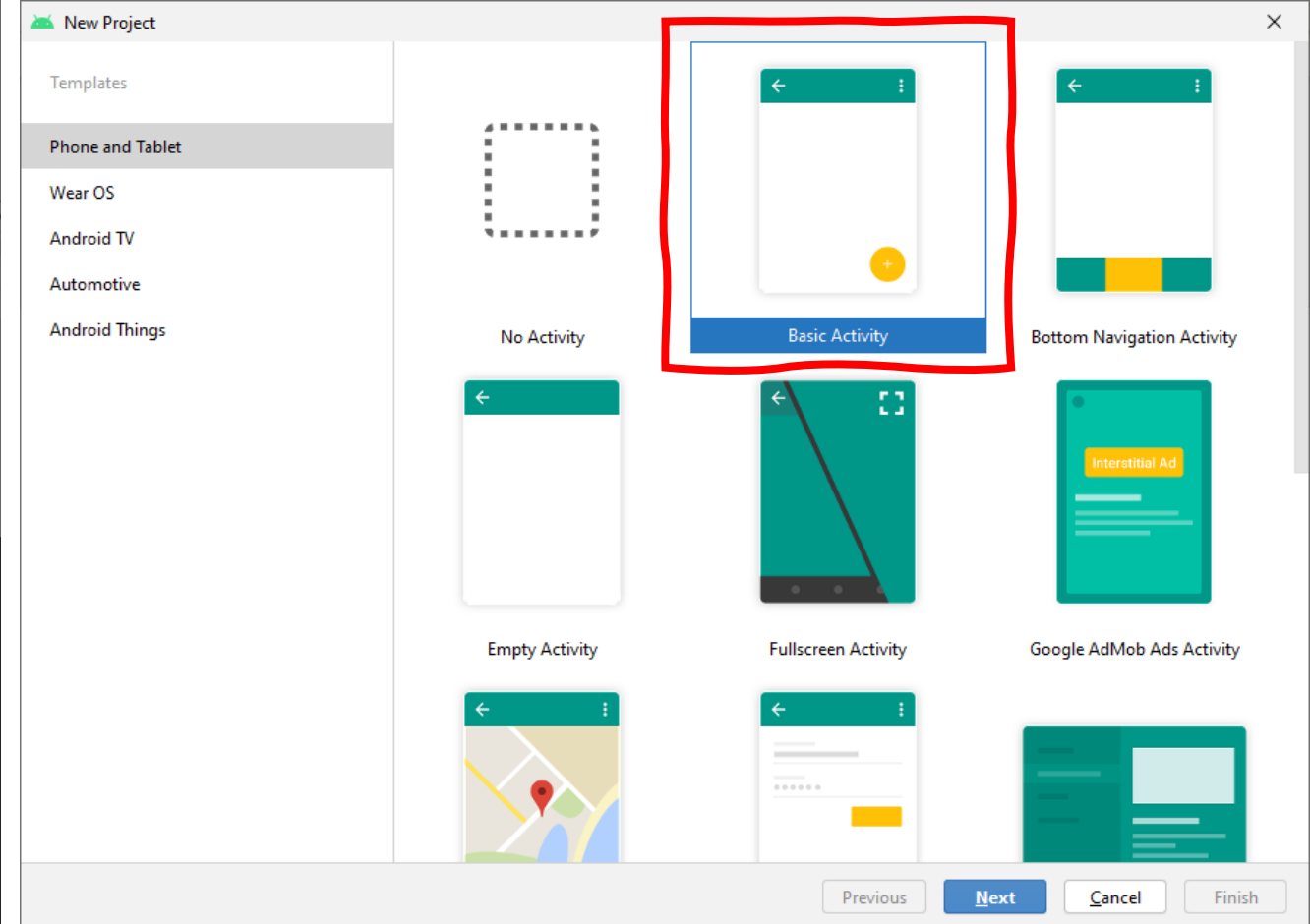
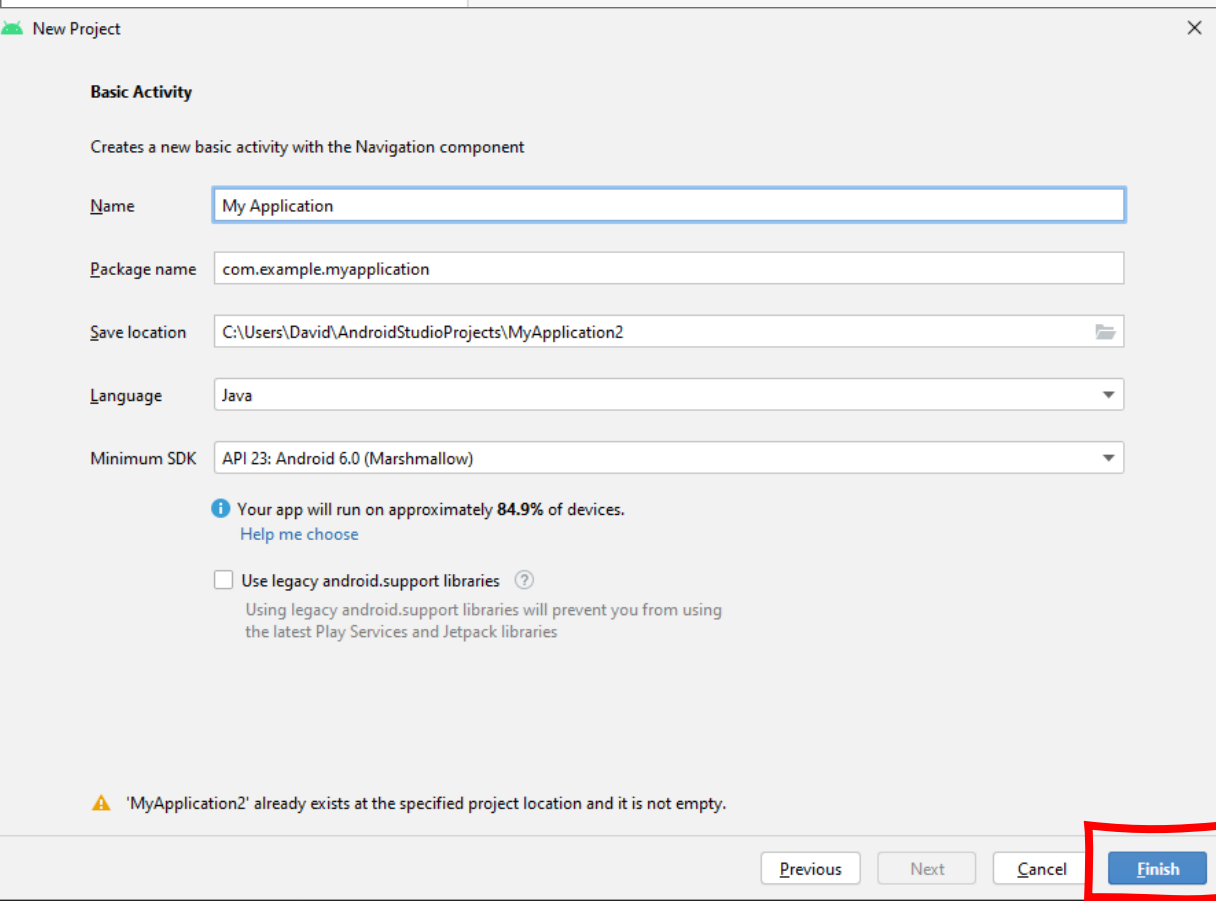
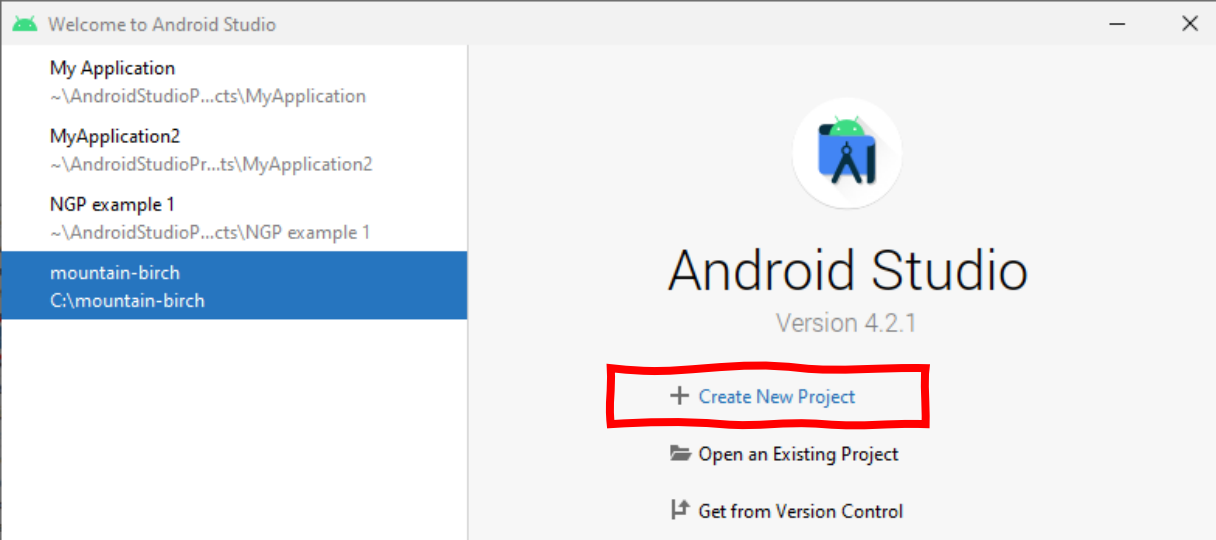
David Azpiroz

June 2021









File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - MainActivity.java [My_Application.app]

MyApplication2 > app > src > main > java > com > example > myapplication > MainActivity

Android

1: Project

- app
 - manifests
 - java
 - com.example.myapplication
 - FirstFragment
 - MainActivity
 - SecondFragment
 - com.example.myapplication (androidTest)
 - com.example.myapplication (test)
 - res
 - drawable
 - layout
 - menu
 - mipmap
 - navigation
 - values
 - Gradle Scripts

Resource Manager

2: Structure

Build Variants

3: Favorites

Emulator

Device File Explorer

MainActivity.java

```
1 package com.example.myapplication;
2
3 import ...
4
20
21 public class MainActivity extends AppCompatActivity {
22
23     private AppBarConfiguration appBarConfiguration;
24     private ActivityMainBinding binding;
25
26     @Override
27     protected void onCreate(Bundle savedInstanceState) {
28         super.onCreate(savedInstanceState);
29
30         binding = ActivityMainBinding.inflate(getLayoutInflater());
31         setContentView(binding.getRoot());
32
33         setSupportActionBar(binding.toolbar);
34
35         NavController navController = Navigation.findNavController(activity: this, R.id.nav_host_fragment
36         appBarConfiguration = new AppBarConfiguration.Builder(navController.getGraph()).build();
37         NavigationUI.setupActionBarWithNavController(activity: this, navController, appBarConfiguration);
38
39         binding.fab.setOnClickListener(new View.OnClickListener() {
40             @Override
41             public void onClick(View view) {
42                 Snackbar.make(view, text: "Replace with your own action", Snackbar.LENGTH_LONG)
43                     .setAction(text: "Action", listener: null).show();
44             }
45         });
46     }
47
48     @Override
49     public boolean onCreateOptionsMenu(Menu menu) {
50         // Inflate the menu: this adds items to the action bar if it is present
```

Gradle sync finished in 1 m 56 s 272 ms (7 minutes ago)

1:1 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - MainActivity.java [My_Application.app]

MyApplication2 > app

Project ▼

MyApplication2 [My Application] C:\Users\David\A

1 package com.example.myapplication;

2

3 import ...

4

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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - MainActivity.java [My_Application.app]

MyApplication2 > app > src > main > java > com > example > myapplication > MainActivity

Project

MyApplication2 [My Application] C:\Users\DavidA\

.gradle

.idea

app

assets

images

map.PNG

map2.PNG

libs

src

androidTest

main

java

com.example.myapplication

FirstFragment

MainActivity

SecondFragment

res

drawable

drawable-v24

layout

menu

mipmap-anydpi-v26

mipmap-hdpi

mipmap-mdpi

mipmap-xhdpi

mipmap-xxhdpi

mipmap-xxxhdpi

navigation

values

values-night

AndroidManifest.xml

test

.gitignore

build.gradle

MainActivity.java

```
1 package com.example.myapplication;
2
3 import ...
4
20 public class MainActivity extends AppCompatActivity {
21
22     private AppBarConfiguration appBarConfiguration;
23     private ActivityMainBinding binding;
24
25     @Override
26     protected void onCreate(Bundle savedInstanceState) {
27         super.onCreate(savedInstanceState);
28
29         binding = ActivityMainBinding.inflate(getLayoutInflater());
30         setContentView(binding.getRoot());
31
32         setSupportActionBar(binding.toolbar);
33
34         NavController navController = Navigation.findNavController(activity: this, R.id.nav_host_fragment);
35         appBarConfiguration = new AppBarConfiguration.Builder(navController.getGraph()).build();
36         NavigationUI.setupActionBarWithNavController(activity: this, navController, appBarConfiguration);
37
38         binding.fab.setOnClickListener(new View.OnClickListener() {
39             @Override
40             public void onClick(View view) {
41                 Snackbar.make(view, text: "Replace with your own action", Snackbar.LENGTH_LONG)
42                     .setAction(text: "Action", listener: null).show();
43             }
44         });
45     }
46
47     @Override
48     public boolean onCreateOptionsMenu(Menu menu) {
49         // Inflate the menu: this adds items to the action bar if it is present
50     }
```

Gradle

Emulator

Device File Explorer

TODO Problems Terminal Build Logcat Profiler Database Inspector

Event Log Layout Inspector

Gradle sync finished in 1 m 56 s 272 ms (37 minutes ago)

1:1 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - MainActivity.java [My_Application.app]

MyApplication2 > app > assets

Project ▾

MyApplication2 [My Application] C:\Users\David\A

assets

MainActivity.java x

package com.example.myapplication;

import ...

public class MainActivity extends AppCompatActivity {

private AppBarConfiguration appBarConfiguration;

private ActivityMainBinding binding;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

binding = ActivityMainBinding.inflate(getLayoutInflater());

setContentView(binding.getRoot());

setSupportActionBar(binding.toolbar);

NavController navController = Navigation.findNavController(activity: this, R.id.nav_host_fragment

appBarConfiguration = new AppBarConfiguration.Builder(navController.getGraph()).build();

NavigationUI.setupActionBarWithNavController(activity: this, navController, appBarConfiguration);

binding.fab.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Snackbar.make(view, text: "Replace with your own action", Snackbar.LENGTH_LONG)

.setAction(text: "Action", listener: null).show();

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu: this adds items to the action bar if it is present

TODO 6: Problems Terminal Build Logcat Profiler Database Inspector

Gradle sync finished in 1 m 56 s 272 ms (43 minutes ago)

1:1 CRLF UTF-8 4 spaces

Emulator Device File Explorer

Resource Manager

Structure

Build Variants

2: Favorites

1: Project

Gradle

Syncing...

Ctrl+X

Ctrl+V

Alt+F7

Ctrl+Shift+F

Ctrl+Shift+R

Ctrl+Alt+L

Ctrl+Alt+O

Delete

Ctrl+Alt+F12

Ctrl+D

Ctrl+Alt+Shift+K

Mark Directory as

Remove BOM

Create Gist...

Convert Java File to Kotlin File

Sources Root

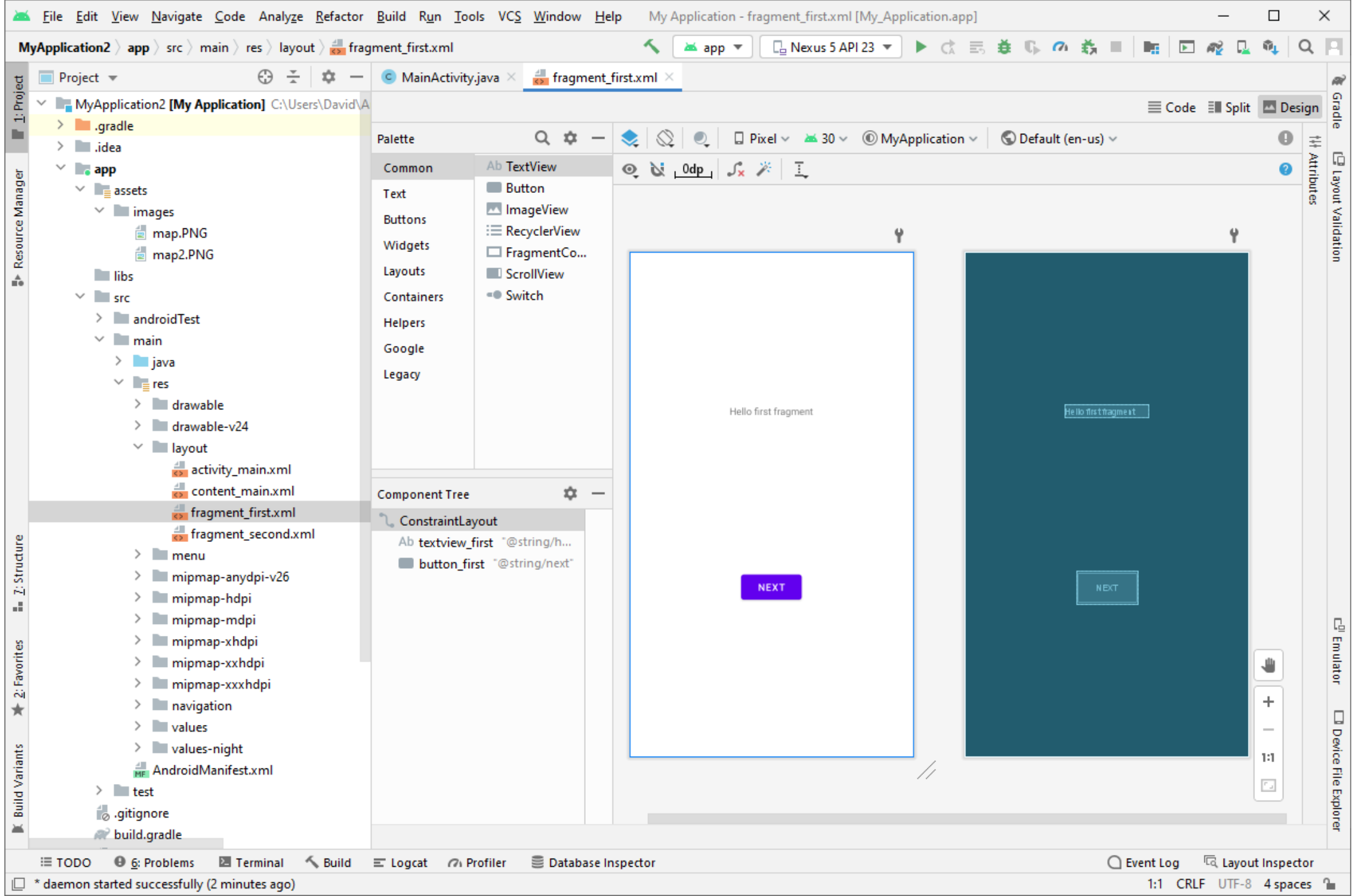
Test Sources Root

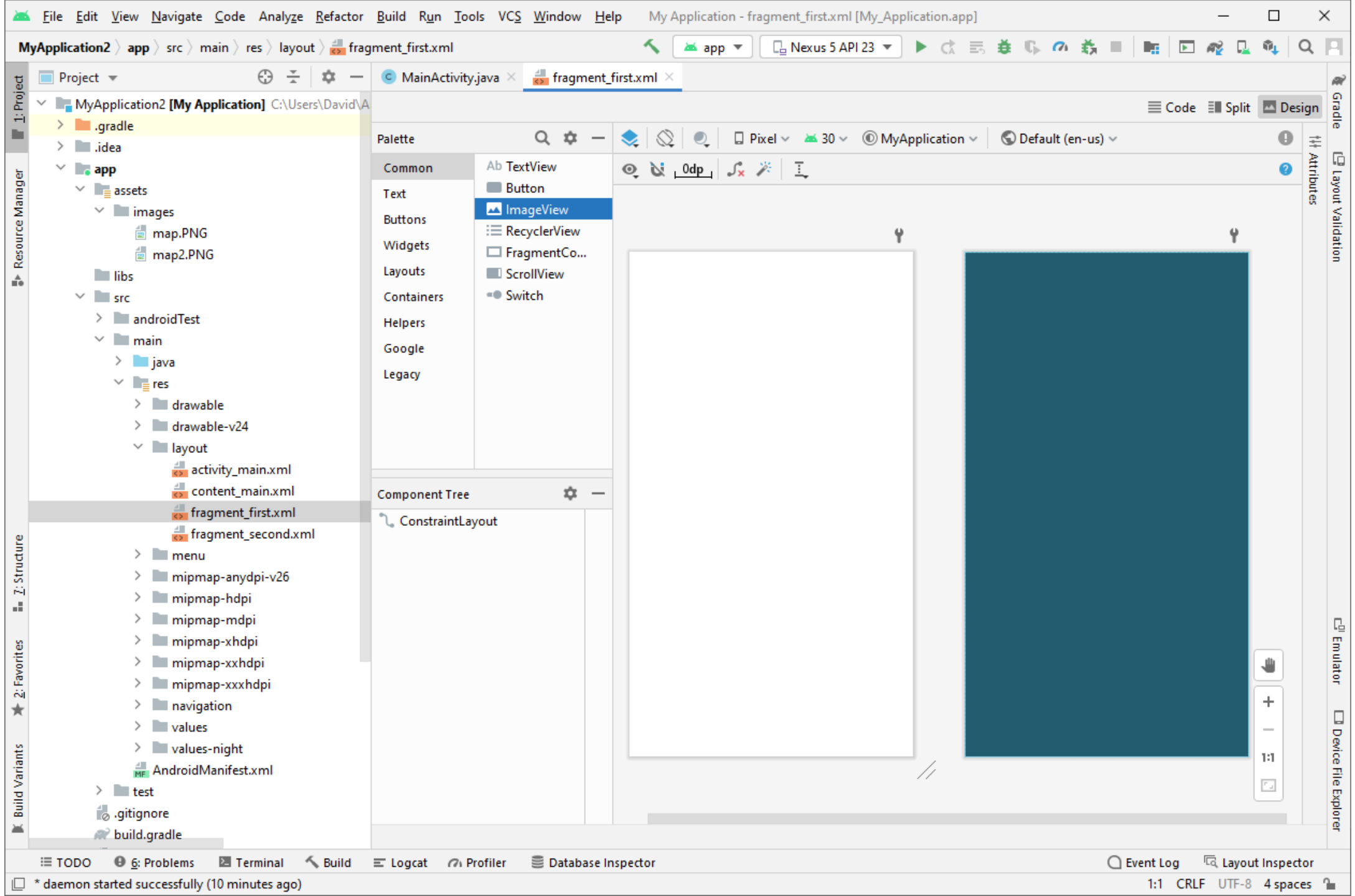
Resources Root

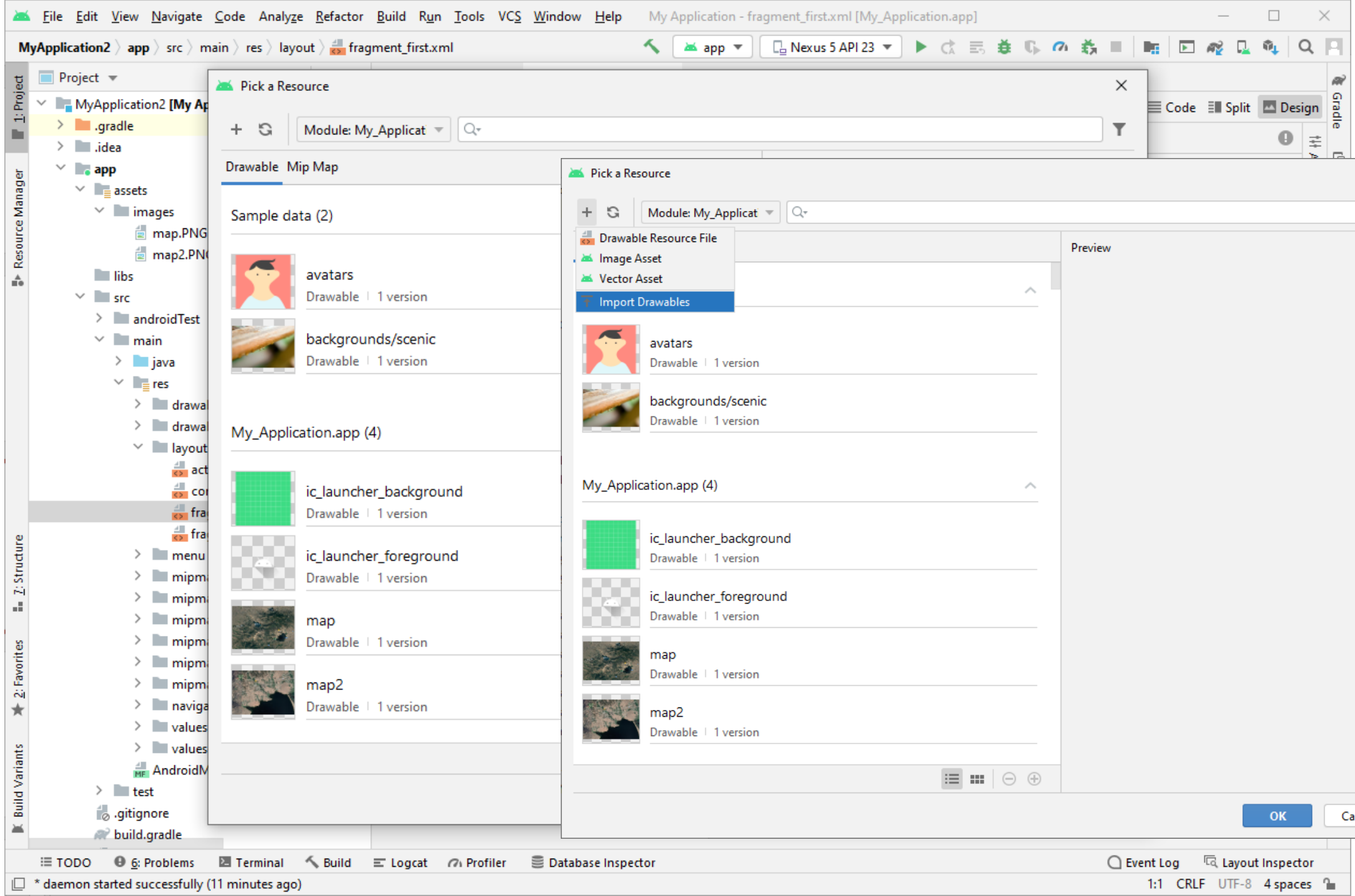
Test Resources Root

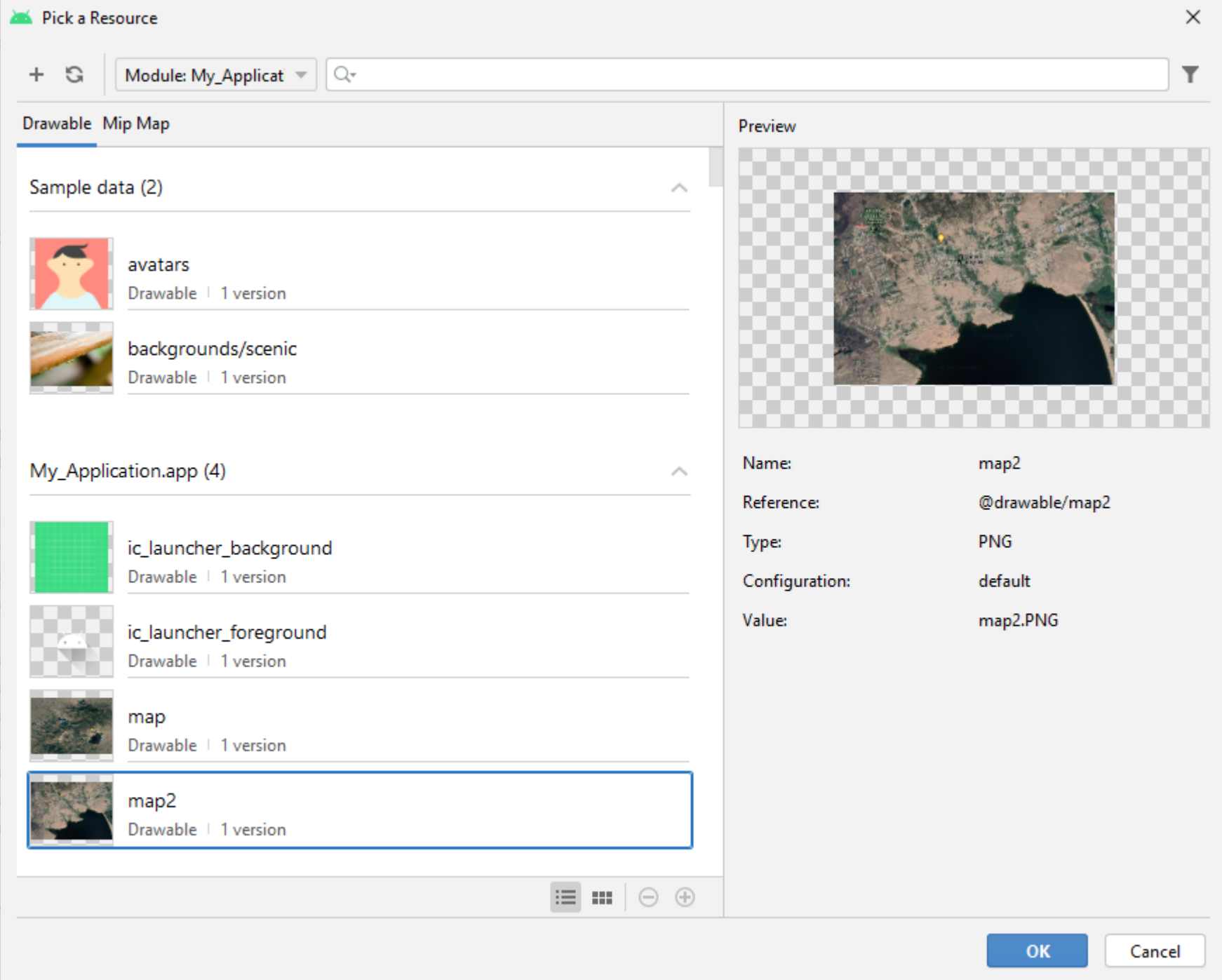
Excluded

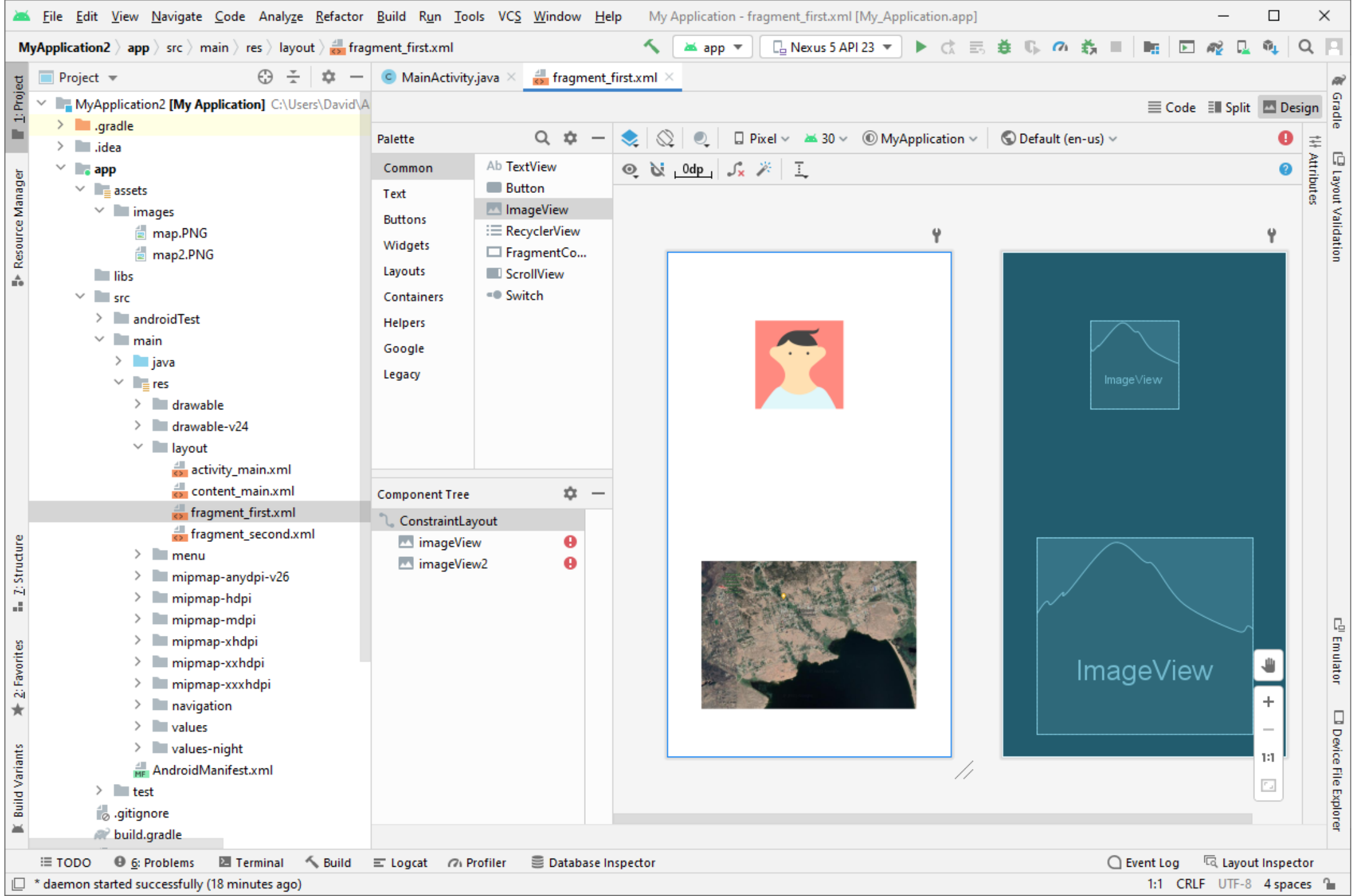
Generated Sources Root







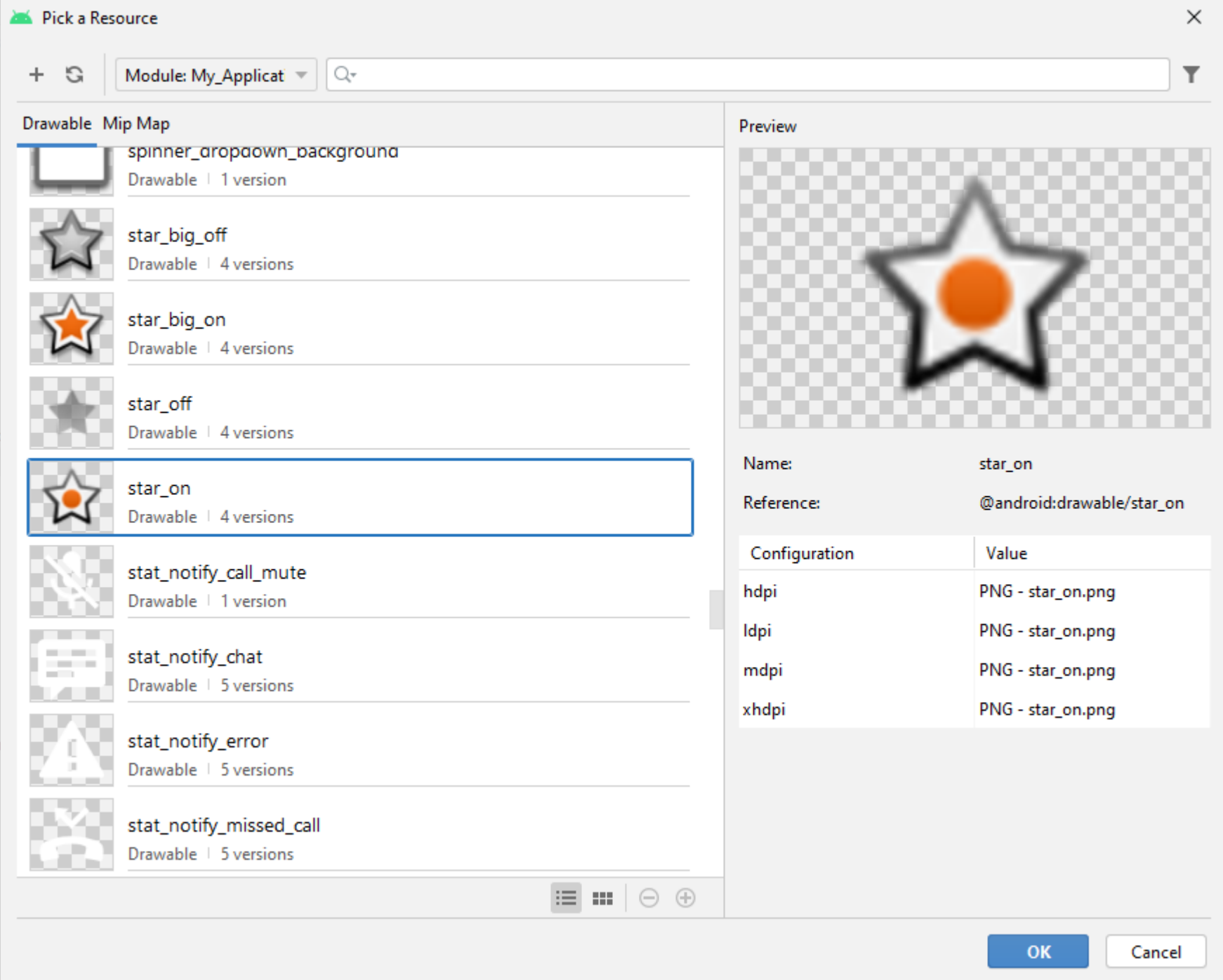


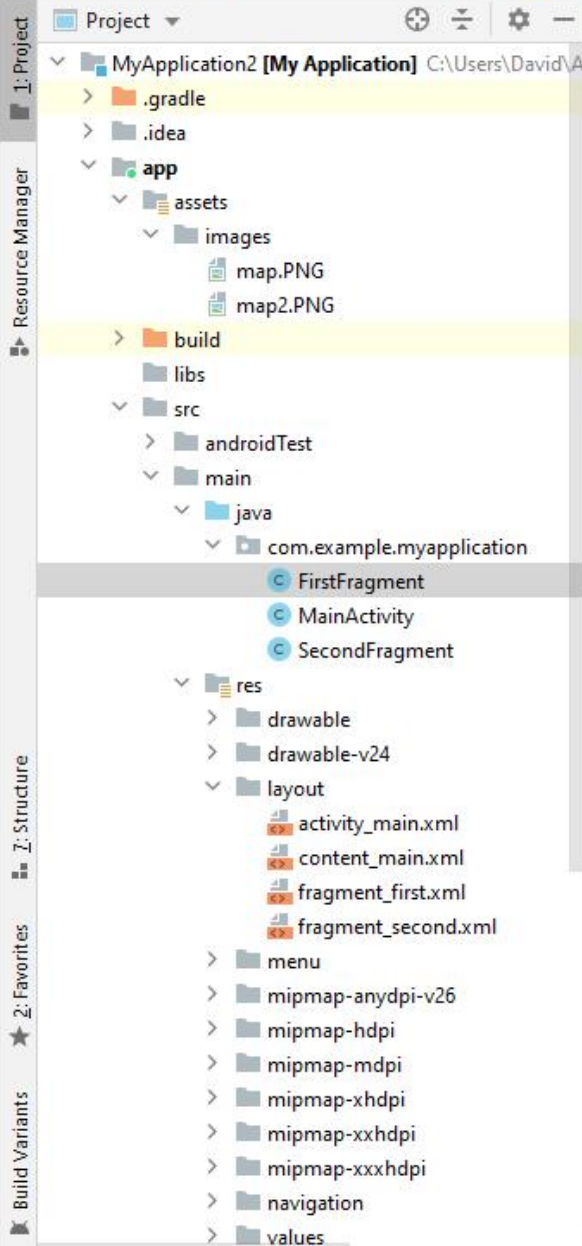


Build Variants

androidx.constraintlayout.widget.ConstraintLayout

Emulator Device File Explorer

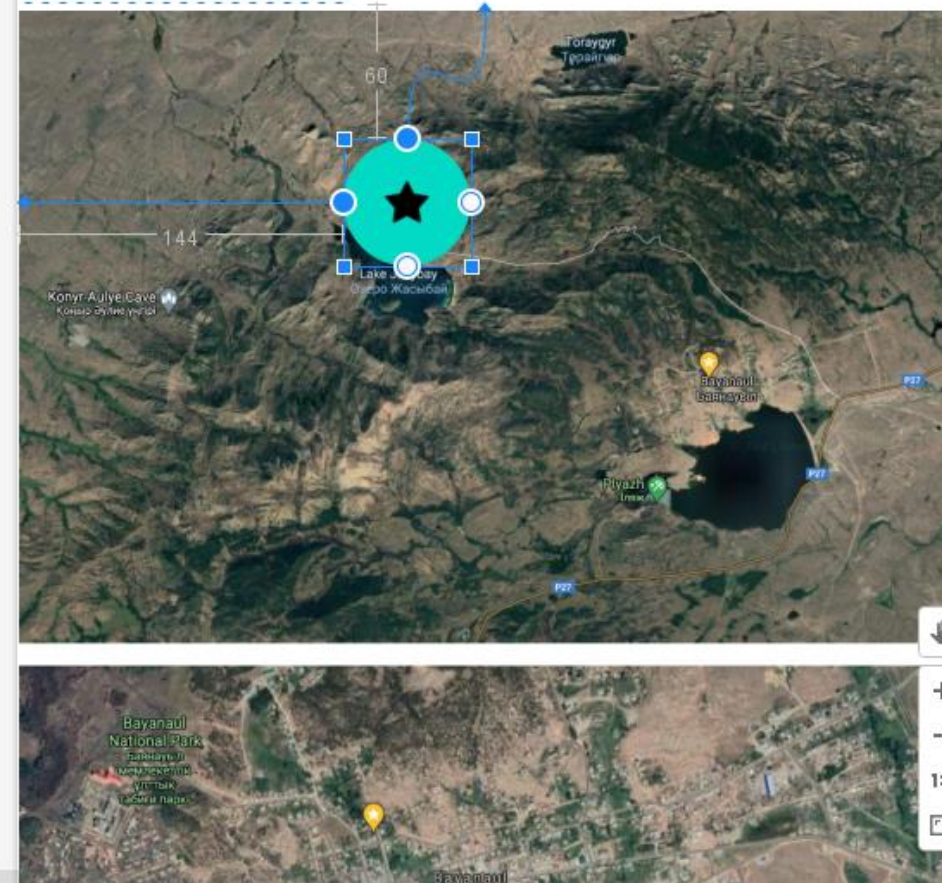


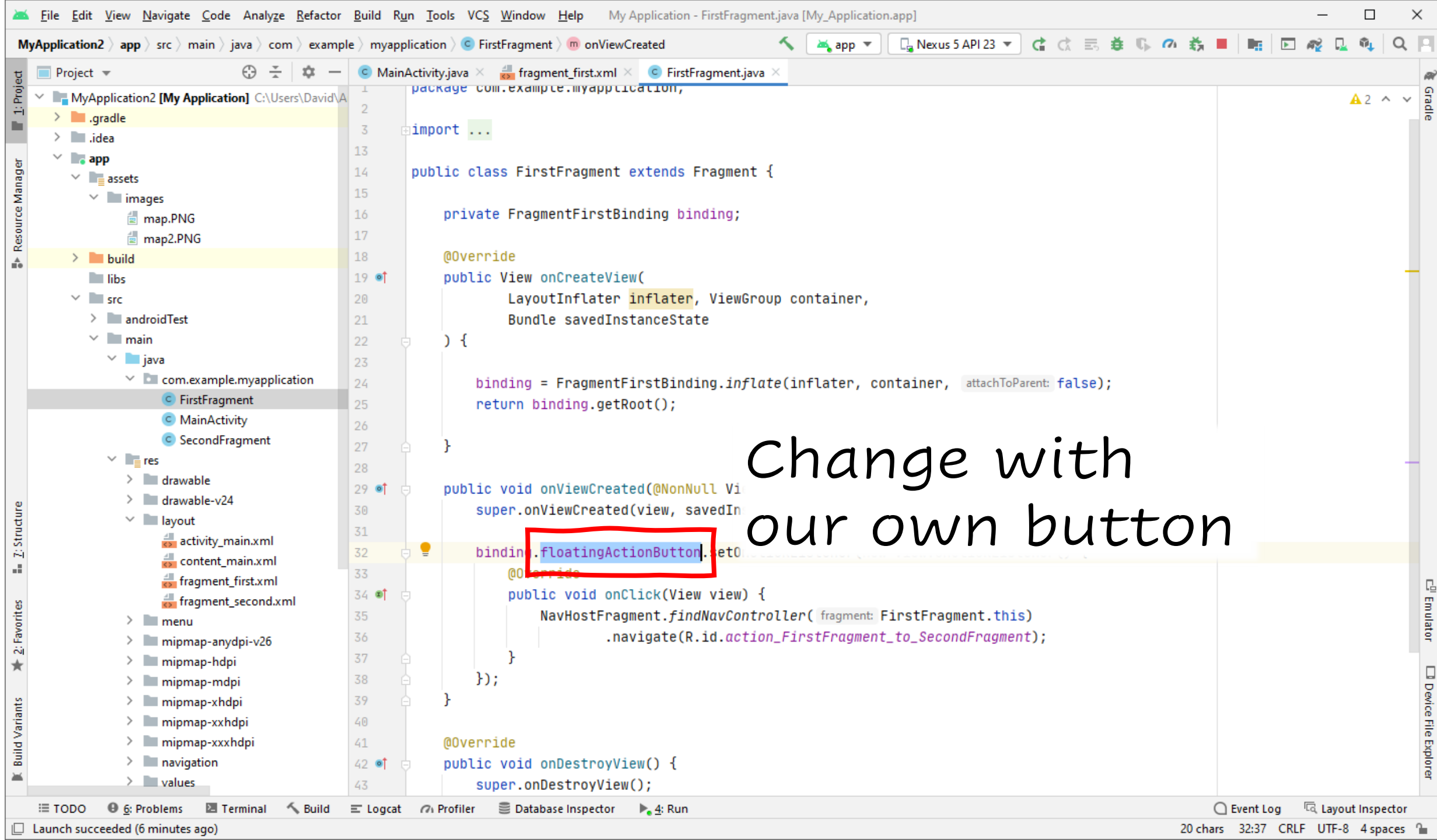


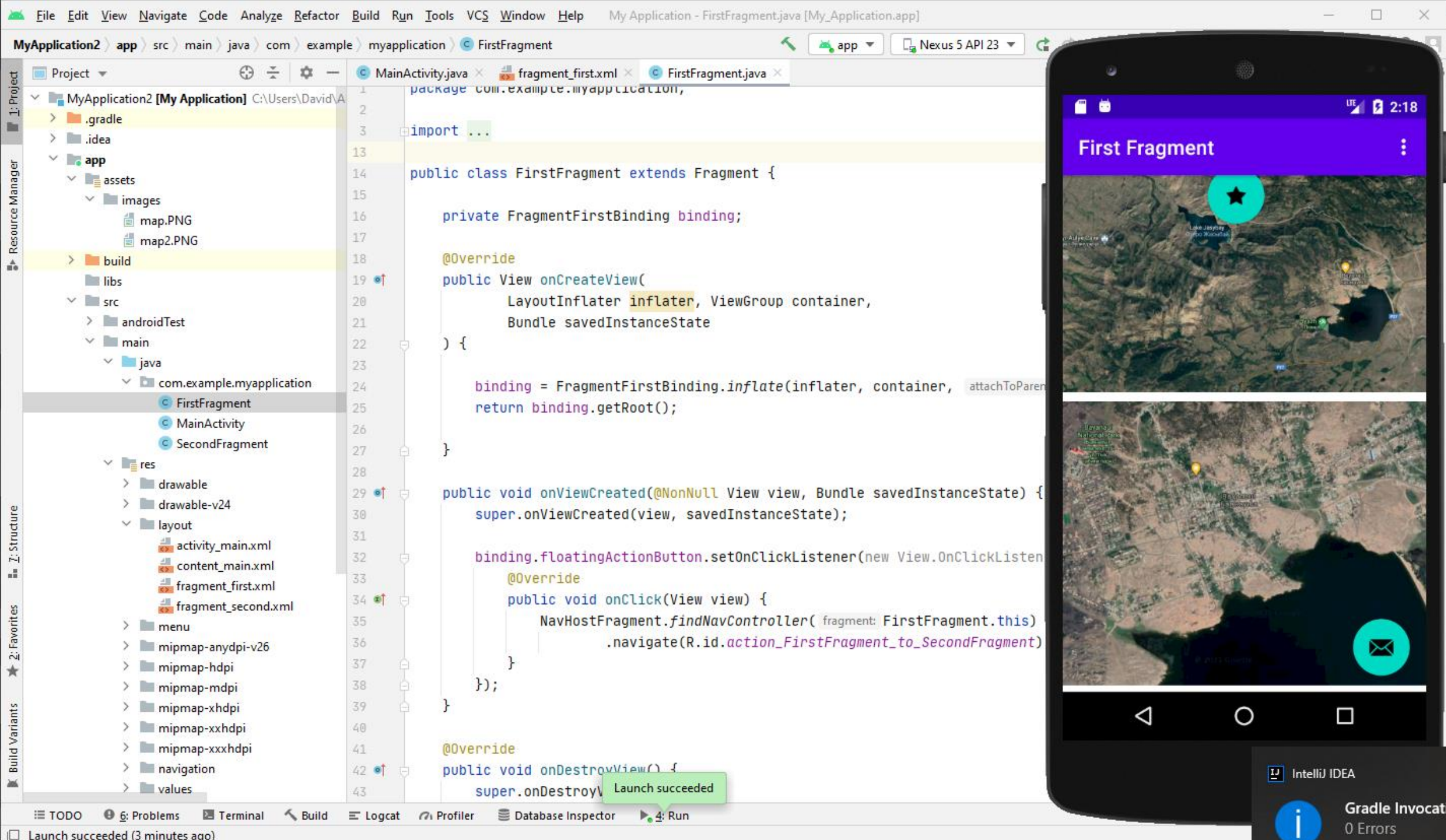
```

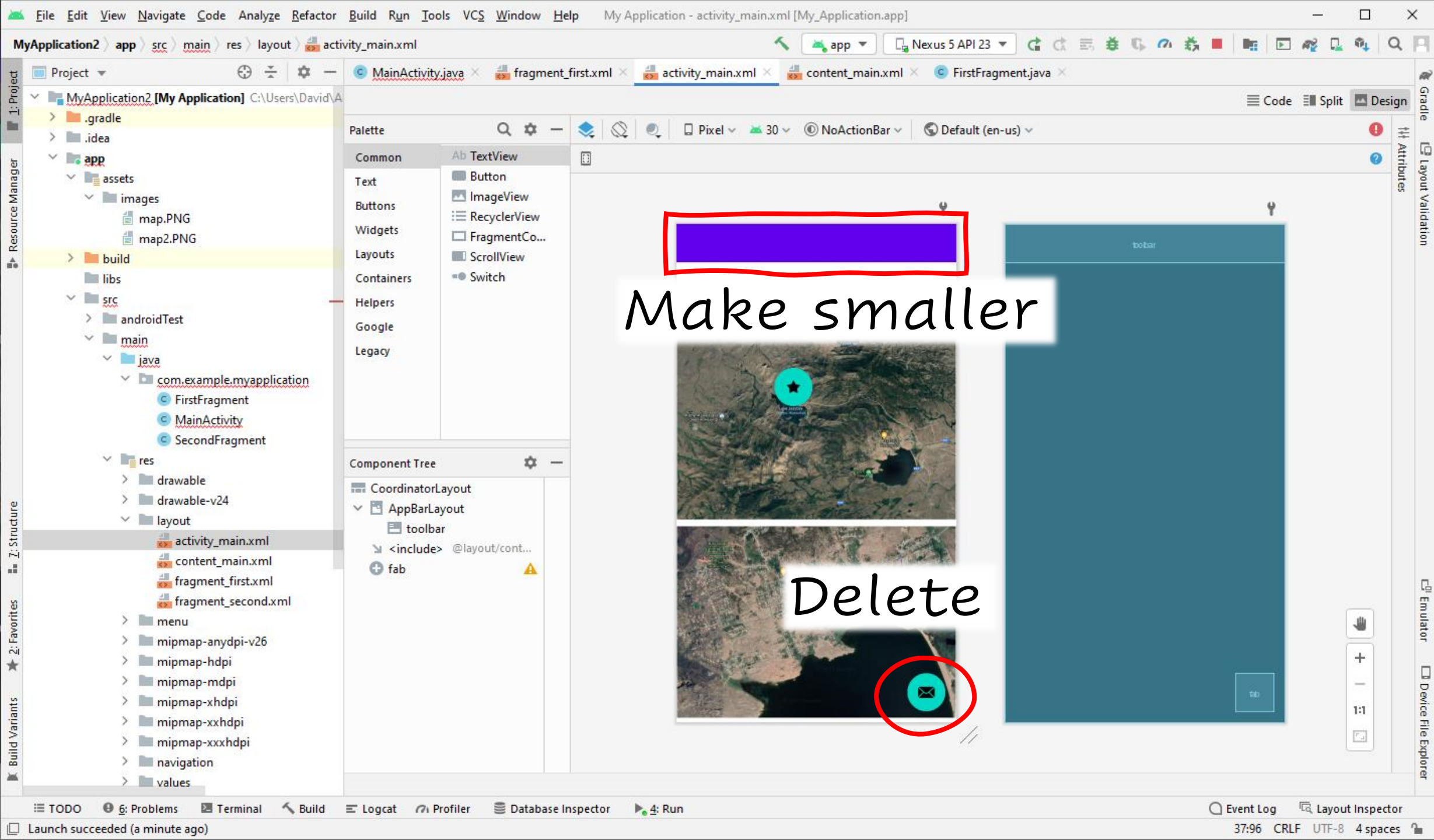
1 <?xml version="1.0" encoding="utf-8" ?>
2 <androidx.constraintlayout.widget.ConstraintLayout
3     xmlns:app="http://schemas.android.com/
4     xmlns:tools="http://schemas.android.com/
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".FirstFragment">
8
9     <ImageView
10         android:id="@+id/imageView"
11         android:layout_width="410dp"
12         android:layout_height="286dp"
13         android:src="@drawable/map"
14         app:layout_constraintBottom_toTopOf=
15         app:layout_constraintEnd_toEndOf=
16         app:layout_constraintStart_toStart
17
18     <ImageView
19         android:id="@+id/imageView2"
20         android:layout_width="410dp"
21         android:layout_height="294dp"
22         android:src="@drawable/map2"
23         app:layout_constraintBottom_toBott
24         app:layout_constraintEnd_toEndOf=
25         app:layout_constraintStart_toStart
26
27     <com.google.android.material.floatinga
28         android:id="@+id/floatingActionBut
29         android:layout_width="wrap_content
30         android:layout_height="wrap_conten
31         android:layout_marginStart="144dp"

```









File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - activity_main.xml [My_Application.app]

MyApplication2 > app > src > main > res > layout > activity_main.xml

Project

- MyApplication2 [My Application] C:\Users\DavidA
 - .gradle
 - .idea
 - app
 - assets
 - images
 - map.PNG
 - map2.PNG
 - build
 - libs
 - src
 - androidTest
 - main
 - java
 - com.example.myapplication
 - FirstFragment
 - MainActivity
 - SecondFragment
 - res
 - drawable
 - drawable-v24
 - layout
 - activity_main.xml
 - content_main.xml
 - fragment_first.xml
 - fragment_second.xml
 - menu
 - mipmap-anydpi-v26
 - mipmap-hdpi
 - mipmap-mdpi
 - mipmap-xhdpi
 - mipmap-xxhdpi
 - mipmap-xxxhdpi
 - navigation
 - values

Resource Manager

Structure

Build Variants

2: Favorites

Palette

Common

- TextView
- Button
- ImageView
- RecyclerView
- FragmentCo...
- ScrollView
- Switch

Text

Buttons

Widgets

Layouts

Containers

Helpers

Google

Legacy

Component Tree

- CoordinatorLayout
- AppBarLayout
 - toolbar
 - <include> @layout/cont...

Code Split Design

Attributes

Emulator Device File Explorer

Launch succeeded (a minute ago)

Event Log Layout Inspector

37:96 CRLF UTF-8 4 spaces

Delete

```
package com.example.myapplication;

import ...

public class MainActivity extends AppCompatActivity {

    private AppBarConfiguration appBarConfiguration;
    private ActivityMainBinding binding;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        binding = ActivityMainBinding.inflate(getLayoutInflater());
        setContentView(binding.getRoot());

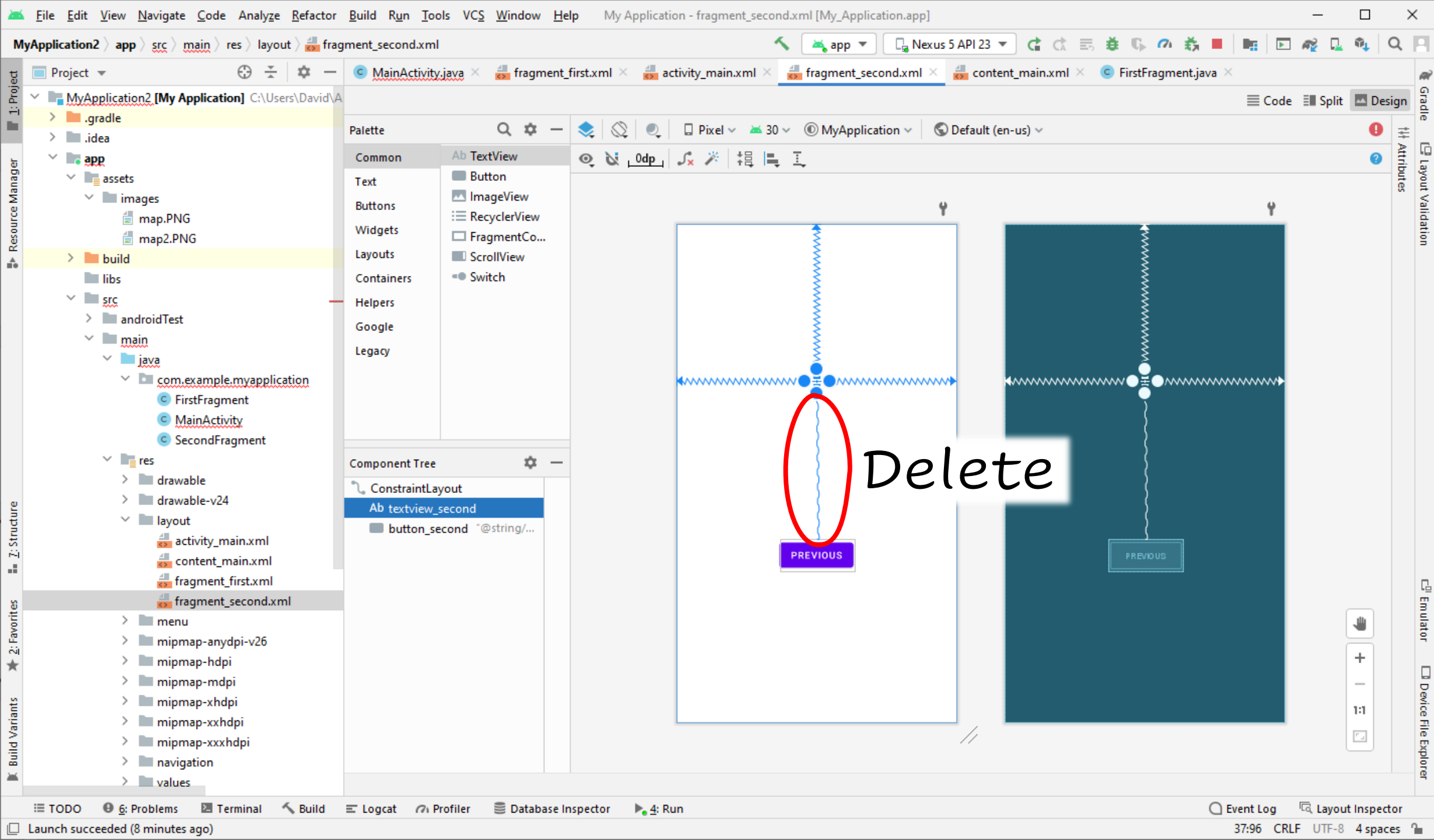
        setSupportActionBar(binding.toolbar);

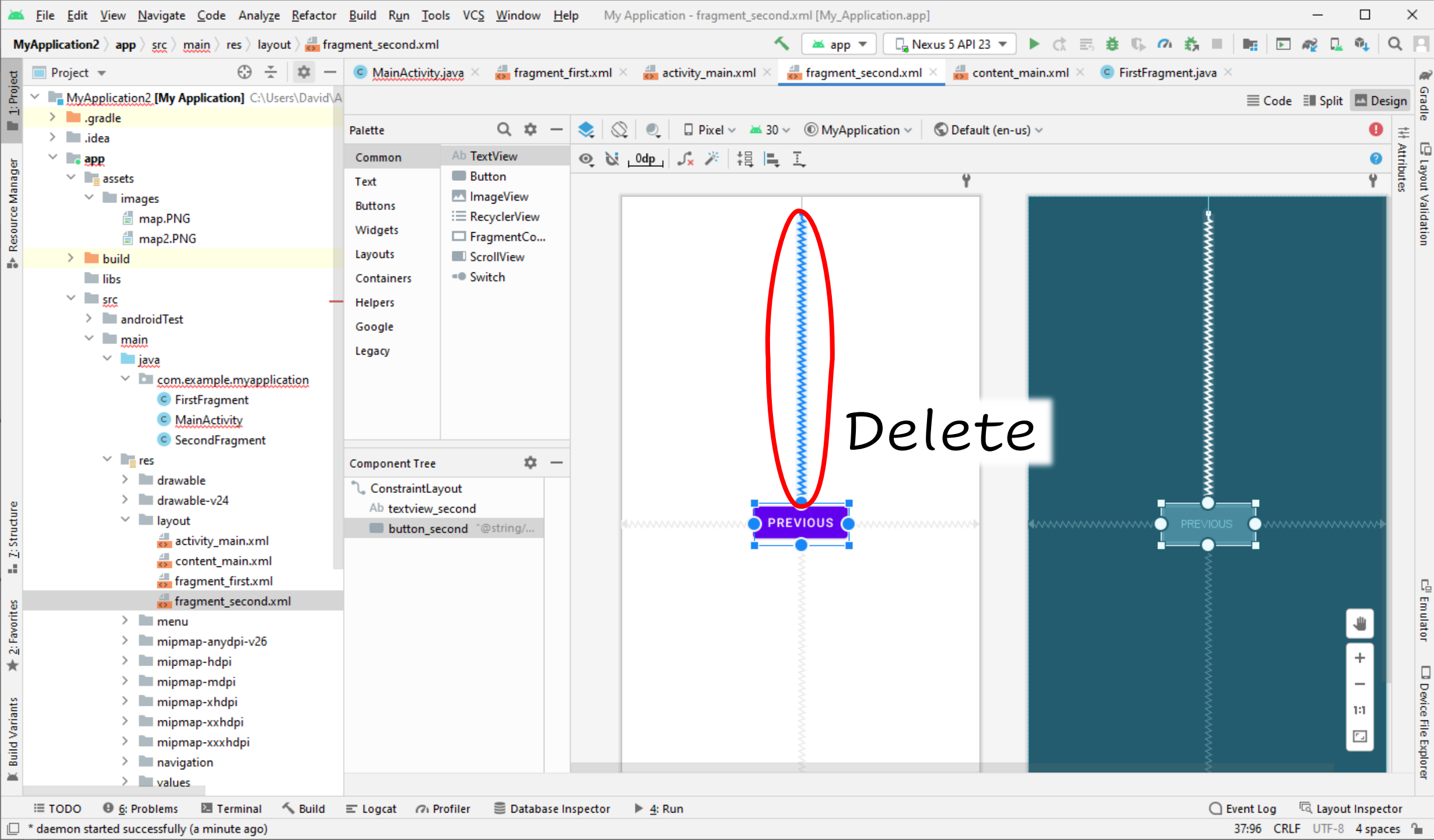
        NavController navController = Navigation.findNavController( activity: this, R.id.nav_host_fragment_content_main);
        Configuration = new AppBarConfiguration.Builder(navController.getGraph()).build();
       ionUI.setupActionBarWithNavController( activity: this, navController, appBarConfiguration);

        binding.fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Snackbar.make(view, text: "Replace with your own action", Snackbar.LENGTH_LONG)
                    .setAction( text: "Action", listener: null).show();
            }
        });

    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu: this adds items to the action bar if it is present
    }
}
```



File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - MainActivity.java [My_Application.app]

MyApplication2 > app > src > main > java > com > example > myapplication > MainActivity > onCreate

Project > MyApplication2 [My Application] C:\Users\David\A

- > .gradle
- > .idea
- > app
 - > assets
 - > images
 - map.PNG
 - map2.PNG
 - > build
 - > libs
 - > src
 - > androidTest
 - > main
 - > java
 - > com.example.myapplication
 - FirstFragment
 - MainActivity
 - SecondFragment
 - > res
 - > drawable
 - > drawable-v24
 - > layout

activity_main.xml

```
28 super.onCreate(savedInstanceState);
29
30 binding = ActivityMainBinding.inflate(getLayoutInflater());
31 setContentView(binding.getRoot());
32
33 setSupportActionBar(binding.toolbar);
34
35 NavController navController = Navigation.findNavController( activity: th
36 appBarConfiguration = new AppBarConfiguration.Builder(navController.
37 NavigationUI.setupActionBarWithNavController( activity: this, navContro
38
39 }
40
41 @Override
42 public boolean onCreateOptionsMenu(Menu menu) {
43     // Inflate the menu; this adds items to the action bar if it is prese
44     getMenuInflater().inflate(R.menu.menu_main, menu);
45     return true;
46 }
47
48 @Override
49 public boolean onOptionsItemSelected(MenuItem item) {
```

Build: Sync x Build Output x Build Analyzer x

Build: finished at 12/06/2021 02:43 with 1 warning 2 s 893 ms

- Please remove usages of 'jcenter()' Maven repository from your build scri

Task :app:validateSigningDebug UP-TO-DATE

Task :app:writeDebugAppMetadata UP-TO-DATE

Task :app:writeDebugSigningConfigVersions UP-TO-DATE

Task :app:packageDebug

Task :app:assembleDebug

BUILD SUCCESSFUL in 2s

31 actionable tasks: 4 executed, 27 up-to-date

Build Anal Launch succeeded

Launch succeeded (moments ago)

Launch succeeded

Click

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - MainActivity.java [My_Application.app]

MyApplication2 > app > src > main > java > com > example > myapplication > MainActivity > onCreate

Project > MyApplication2 [My Application] C:\Users\David\A

- > .gradle
- > .idea
- > app
 - > assets
 - > images
 - map.PNG
 - map2.PNG
 - > build
 - > libs
 - > src
 - > androidTest
 - > main
 - > java
 - > com.example.myapplication
 - FirstFragment
 - MainActivity
 - SecondFragment
 - > res
 - > drawable
 - > drawable-v24
 - > layout

Build: Sync x Build Output x Build Analyzer x

Build: finished at 12/06/2021 02:43 with 1 warning 2 s 893 ms

- Please remove usages of 'jcenter()' Maven repository from your build scri

Task :app:validateSigningDebug UP-TO-DATE

> Task :app:writeDebugAppMetadata UP-TO-DATE

> Task :app:writeDebugSigningConfigVersions UP-TO-DATE

> Task :app:packageDebug

> Task :app:assembleDebug

BUILD SUCCESSFUL in 2s

31 actionable tasks: 4 executed, 27 up-to-date

Build Anal... ilable

Launch succeeded

Launch succeeded (a minute ago)

MainActivity.java

```
28 super.onCreate(savedInstanceState);
29
30 binding = ActivityMainBinding.inflate(getLayoutInflater());
31 setContentView(binding.getRoot());
32
33 setSupportActionBar(binding.toolbar);
34
35 NavController navController = Navigation.findNavController(activity: this);
36 appBarConfiguration = new AppBarConfiguration.Builder(navController.
37 NavigationUI.setupActionBarWithNavController(activity: this, navControl
38
39 }
40
41 @Override
42 public boolean onCreateOptionsMenu(Menu menu) {
43     // Inflate the menu; this adds items to the action bar if it is prese
44     getMenuInflater().inflate(R.menu.menu_main, menu);
45     return true;
46 }
47
48 @Override
49 public boolean onOptionsItemSelected(MenuItem item) {
```

fragment_first.xml

activity_main.xml

fragment_second.xml

content_ma

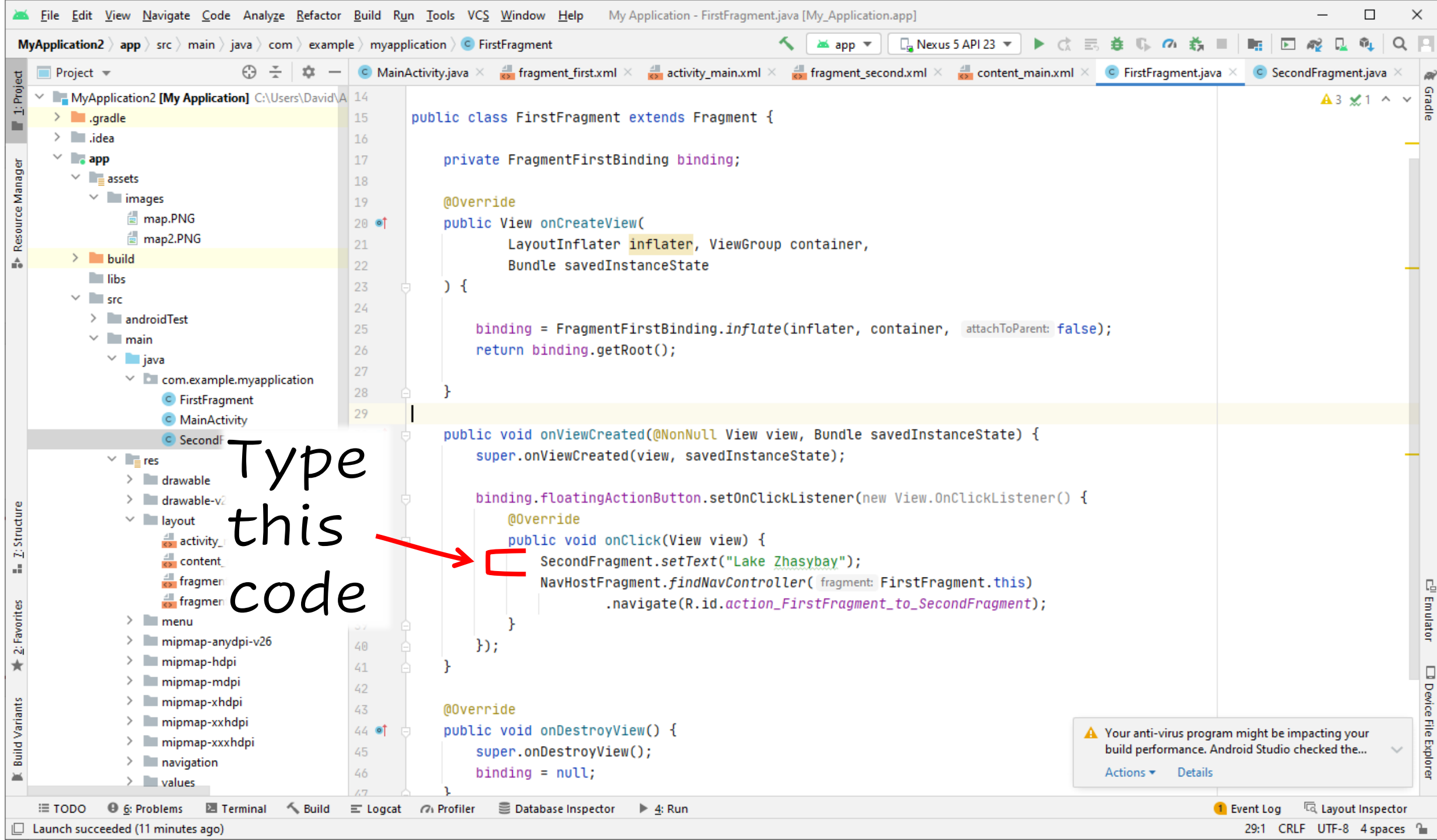
Second Fragment

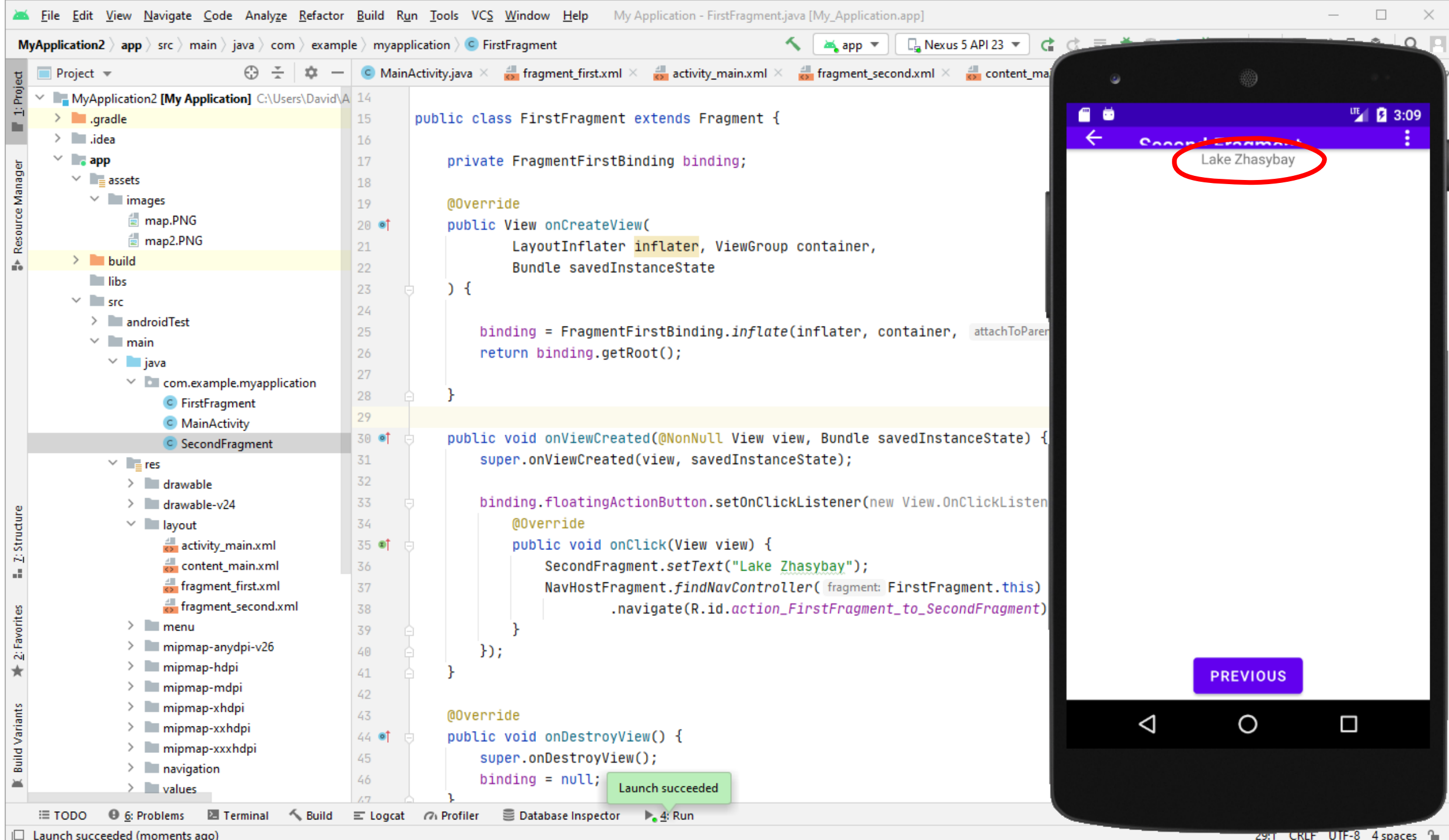
PREVIOUS

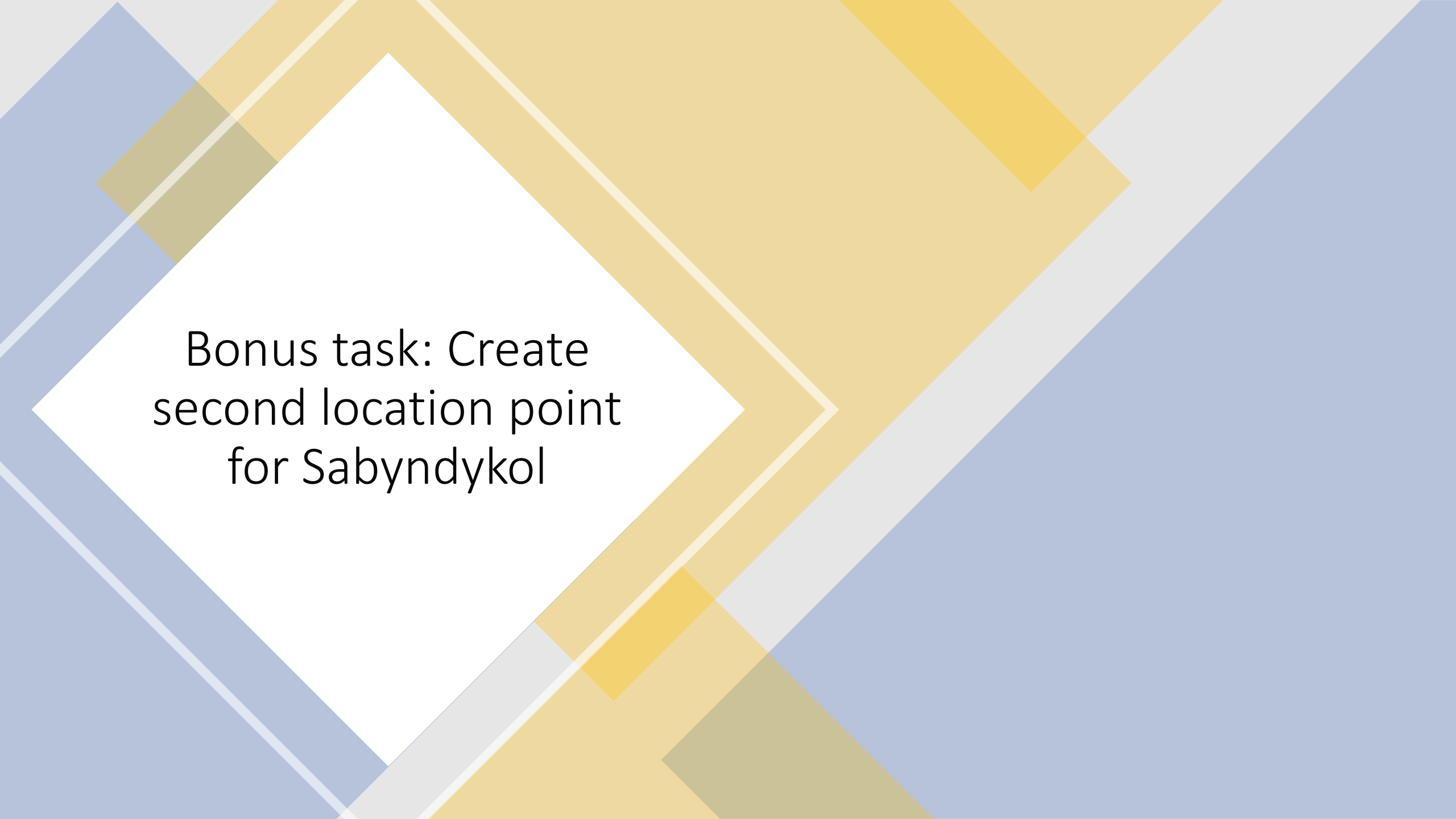
Type
this
code

```
public class SecondFragment extends Fragment {  
  
    private FragmentSecondBinding binding;  
  
    private static String text;  
    public static void setText(String s){  
        text = s;  
    }  
  
    @Override  
    public View onCreateView(  
        LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState  
    ) {  
  
        binding = FragmentSecondBinding.inflate(inflater, container, attachToParent: false);  
        return binding.getRoot();  
    }  
  
    public void onViewCreated(@NonNull View view, Bundle savedInstanceState) {  
        super.onViewCreated(view, savedInstanceState);  
  
        binding.textviewSecond.setText(text);  
  
        binding.buttonSecond.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View view) {  
                NavHostFragment.findNavController( fragment: SecondFragment.this)  
                    .navigate(R.id.action_SecondFragment_to_FirstFragment);  
            }  
        });  
    }  
};
```

⚠ Your anti-virus program might be impacting your build performance. Android Studio checked the...
[Actions](#) [Details](#)







Bonus task: Create
second location point
for Sabyndykol

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help My Application - fragment_first.xml [My_Application.app]

MyApplication2 > app > src > main > res > layout > fragment_first.xml

Project > MyApplication2 [My Application] C:\Users\David\A

- .gradle
- .idea
- app
 - assets
 - images
 - map.PNG
 - map2.PNG
 - build
 - libs
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 - activity_main.xml
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 - fragment_first.xml
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 - mipmap-anydpi-v26
 - mipmap-hdpi
 - mipmap-mdpi
 - mipmap-xhdpi
 - mipmap-xxhdpi
 - mipmap-xxxhdpi
 - navigation
 - values

Palette

- Common
 - Button
 - ImageButton
 - ChipGroup
 - Chip
 - CheckBox
 - RadioGroup
 - RadioButton
 - ToggleButton
 - Switch
 - FloatingAction...
- Text
- Buttons
- Widgets
- Layouts
- Containers
- Helpers
- Google
- Legacy

Component Tree

- ConstraintLayout
 - imageView
 - imageView2
 - floatingActionButton
 - floatingActionButton2

0dp 30 MyApplication Default (en-us)

ImageView

ImageView

androidx.constraintlayout.widget.ConstraintLayout > com.google.android.material.floatingactionbutton.FloatingActionButton

Launch succeeded (7 minutes ago)

6: Problems Terminal Build Logcat Profiler Database Inspector 4: Run

Event Log Layout Inspector

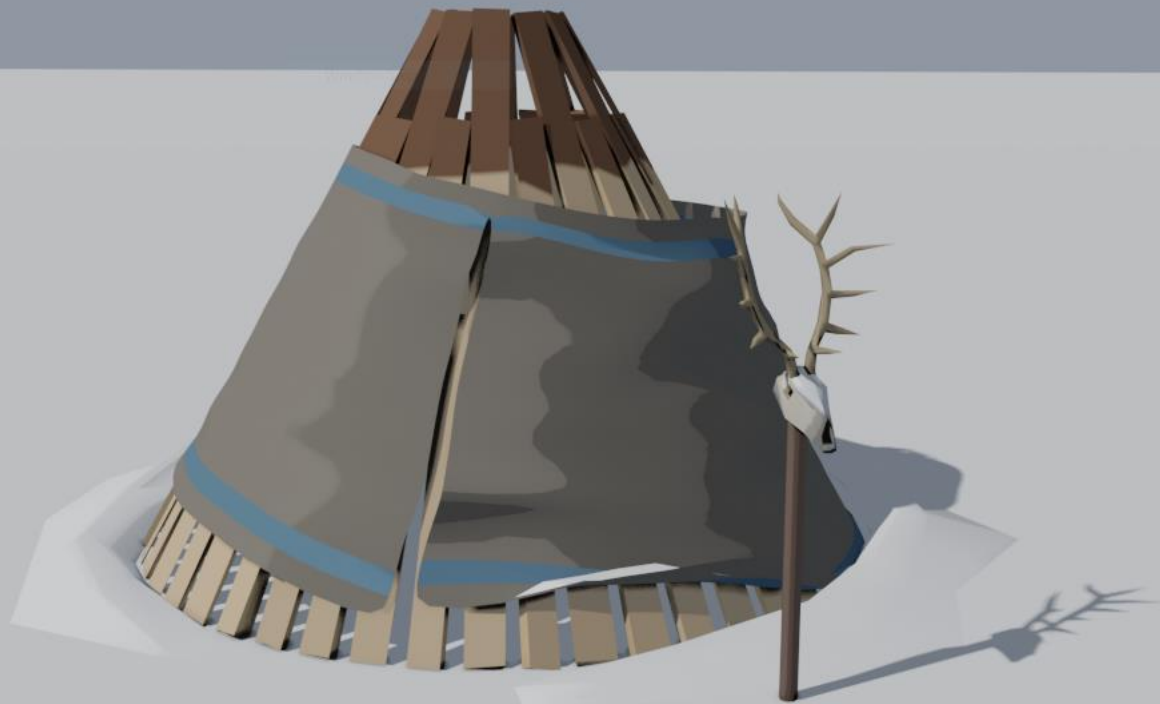
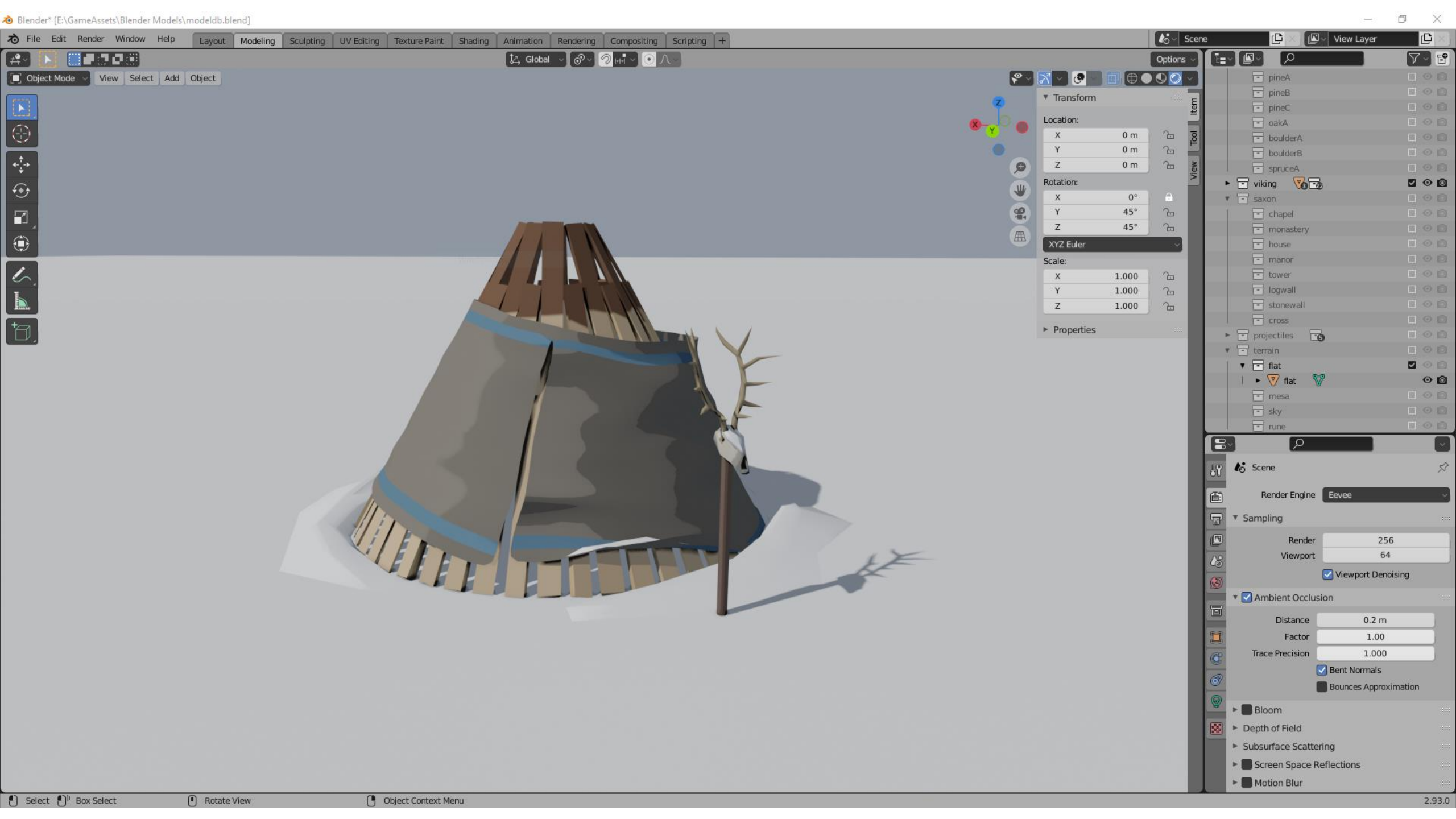
36:54 CRLF UTF-8 4 spaces



Video game design: 3D modelling







Options

Transform

Location:

X	0 m
Y	0 m
Z	0 m

Rotation:

X	0°
Y	45°
Z	45°

XYZ Euler

Scale:

X	1.000
Y	1.000
Z	1.000

Properties

Item

Tool

View

Scene

View Layer

- pineA
- pineB
- pineC
- oakA
- boulderA
- boulderB
- spruceA
- viking
- saxon
- chapel
- monastery
- house
- manor
- tower
- logwall
- stonewall
- cross
- projectiles
- terrain
- flat
- mesa
- sky
- rune

Scene

Render Engine: Eevee

Sampling

Render: 256

Viewport: 64

Viewport Denoising

Ambient Occlusion

Distance: 0.2 m

Factor: 1.00

Trace Precision: 1.000

Bent Normals

Bounces Approximation

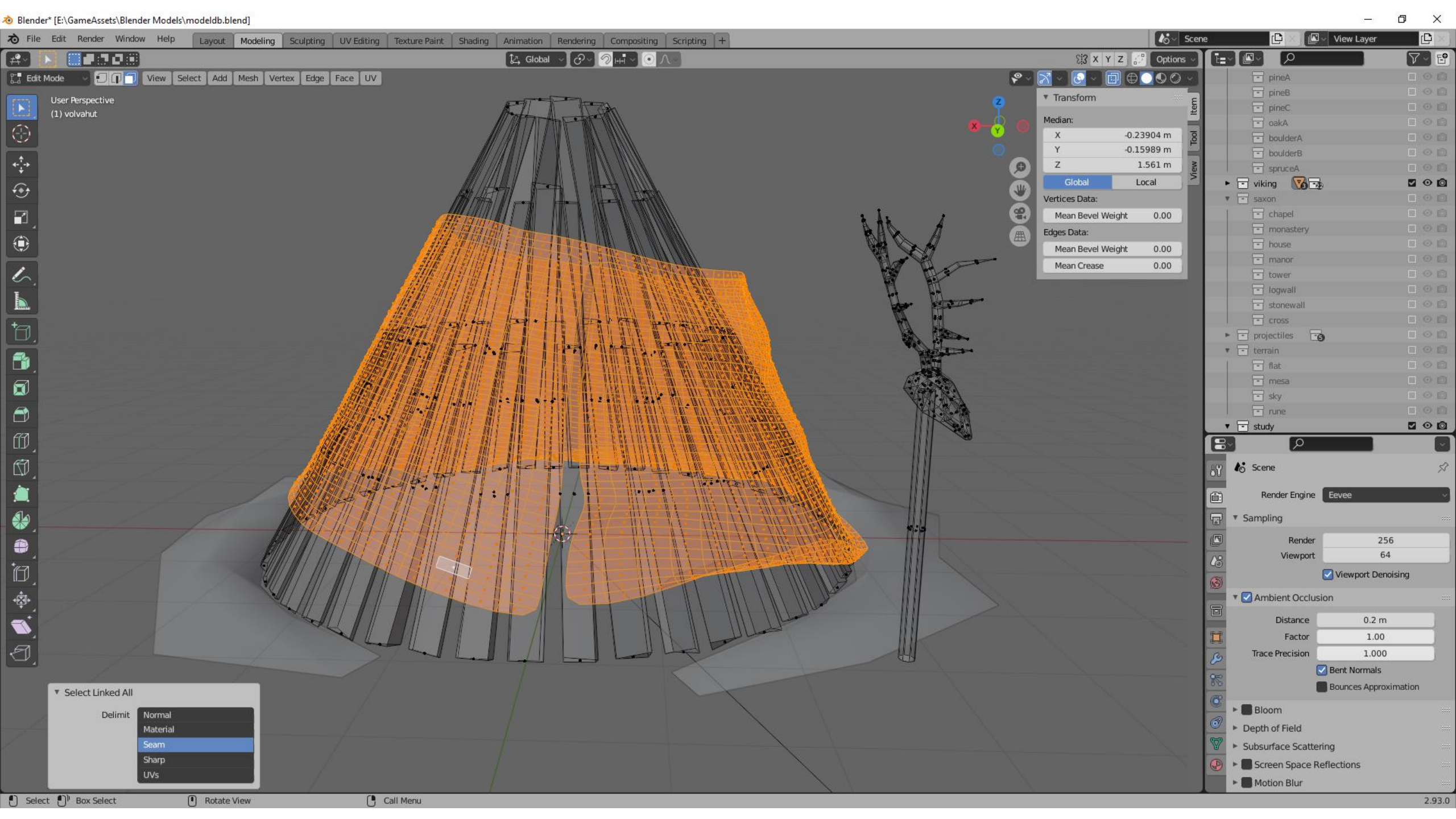
Bloom

Depth of Field

Subsurface Scattering

Screen Space Reflections

Motion Blur

User Perspective
(1) volvahut

Select Linked All

Delimit
Normal
Material
Seam
Sharp
UVs

Transform

Median:

X	-0.23904 m
Y	-0.15989 m
Z	1.561 m

Global Local

Vertices Data:

Mean Bevel Weight 0.00

Edges Data:

Mean Bevel Weight 0.00

Mean Crease 0.00

