WORDPRESS REST API

Reference

- Dokumentasi API : https://developer.wordpress.org/rest-api/reference/
- Online Demo : https://demo.wp-api.org/
- Akses: **https://demo.wp-api.org/wp-json/**wp/v2/posts
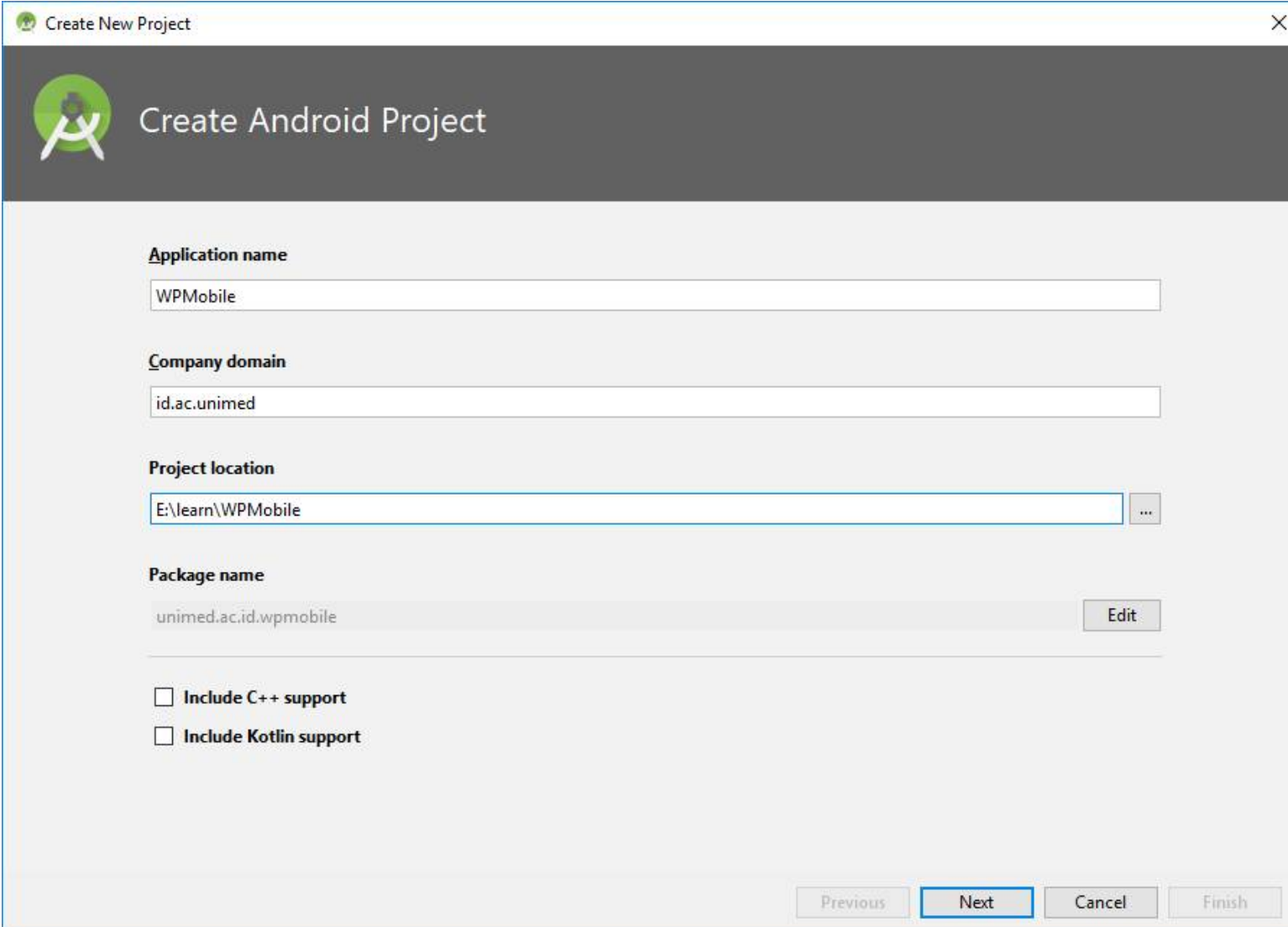- Coba dilihat di website anda

ANDROID CLIENT

Langkah-lagkah

- Buat project android
- Import library Retrofit
- Konversi JSON ke POJO
- Buat API Client menggunakan Retrofit
- Buat layout sesuai perancangan
  - Menampilkan posting
  - Menampilkan detail posting
- Coding
- Running

Android Project

Android Project

Android Project

Android Project

Import Library

```
 9              versionCode 1
10              versionName "1.0"
11              testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
12          }
13      buildTypes {
14          release {
15              minifyEnabled false
16              proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
17          }
18      }
19  }
20
21  dependencies {
22      implementation fileTree(dir: 'libs', include: ['*.jar'])
23      implementation 'com.android.support:appcompat-v7:27.1.1'
24      implementation 'com.android.support.constraint:constraint-layout:1.1.2'
25      testImplementation 'junit:junit:4.12'
26      androidTestImplementation 'com.android.support.test:runner:1.0.2'
27      androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
28
29      implementation 'com.google.code.gson:gson:2.8.5'
30      implementation 'com.squareup.retrofit2:retrofit:2.4.0'
31      implementation 'com.squareup.retrofit2:converter-gson:latest.version'
```

```
implementation 'com.google.code.gson:gson:2.8.5'
implementation 'com.squareup.retrofit2:retrofit:2.4.0'
implementation 'com.squareup.retrofit2:converter-gson:2.4.0'
```

Permission

```
activity_main.xml ×    C MainActivity.java ×    ● app ×    AndroidManifest.xml ×

1      <?xml version="1.0" encoding="utf-8"?>
2      <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3          package="unimed.ac.id.wpmobile">
4          <uses-permission android:name="android.permission.INTERNET" />
5
```

Convert JSON to POJO

http://www.jsonschema2pojo.org/

Package `unimed.ac.id.wpmobile`

Class name `PostResult`

Target language:

◉ Java   ○ Scala

Source type:

○ JSON Schema   ◉ JSON

○ YAML Schema   ○ YAML

Annotation style:

○ Jackson 2.x   ○ Jackson 1.x

◉ Gson   ○ Moshi   ○ None

Android Project

```
1  {
2  "id": 1,
3  "date": "2017-05-23T06:25:50",
4  "date_gmt": "2017-05-23T06:25:50",
5  "guid": {
6  "rendered": "http://demo.wp-api.org/?p=1"
7  },
8  "modified": "2017-05-23T06:25:50",
9  "modified_gmt": "2017-05-23T06:25:50",
10 "slug": "hello-world",
11 "status": "publish",
12 "type": "post",
13 "link": "https://demo.wp-api.org/2017/05/23/hello-world/",
14 "title": {
15 "rendered": "Hello world!"
16 },
17 "content": {
18 "rendered": "<p>Welcome to <a href=\"http://wp-api.org/\">WP API
19 "protected": false
20 },
21 "excerpt": {
22 "rendered": "<p>Welcome to WP API Demo Sites. This is your first
23 "protected": false
24 },
25 "author": 1,
26 "featured_media": 0,
27 "comment_status": "open",
28 "ping_status": "open",
29 "sticky": false,
30 "template": "",
31 "format": "standard",
32 "meta": [],
33 "categories": [
34 1
35 ],
36 "tags": [],
37 "_links": {
38 "self": [
39 {
40 "href": "https://demo.wp-api.org/wp-json/wp/v2/posts/1"
41 }
42 ],
43 "collection": [
44 {
45 "href": "https://demo.wp-api.org/wp-json/wp/v2/posts"
46 }
47 ],
48 "about": [
```

Package unimed.ac.id.wpmobile

Class name PostResult

Target language:
⦿ Java   ◯ Scala

Source type:
◯ JSON Schema   ⦿ JSON
◯ YAML Schema   ◯ YAML

Annotation style:
◯ Jackson 2.x   ◯ Jackson 1.x
⦿ Gson   ◯ Moshi   ◯ None

☐ Generate builder methods
☐ Use primitive types
☐ Use long integers
☑ Use double numbers
☐ Use Joda dates
☐ Use Commons-Lang3
☑ Include getters and setters
☐ Include constructors
☐ Include hashCode and equals

Convert JSON to POJO

Preview

Copy to Clipboard

```java
    this.wpTerm = wpTerm;
    }

    public List<Cury> getCuries() {
    return curies;
    }

    public void setCuries(List<Cury> curies) {
    this.curies = curies;
    }

    }
--------------------------------unimed.ac.id.wpmobile.PostResult.java-----------------------------------

package unimed.ac.id.wpmobile;

import java.util.List;
import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class PostResult {

@SerializedName("id")
@Expose
private Integer id;
@SerializedName("date")
@Expose
private String date;
@SerializedName("date_gmt")
@Expose
private String dateGmt;
@SerializedName("guid")
@Expose
private Guid guid;
@SerializedName("modified")
@Expose
private String modified;
@SerializedName("modified_gmt")
@Expose
private String modifiedGmt;
@SerializedName("slug")
@Expose
private String slug;
```
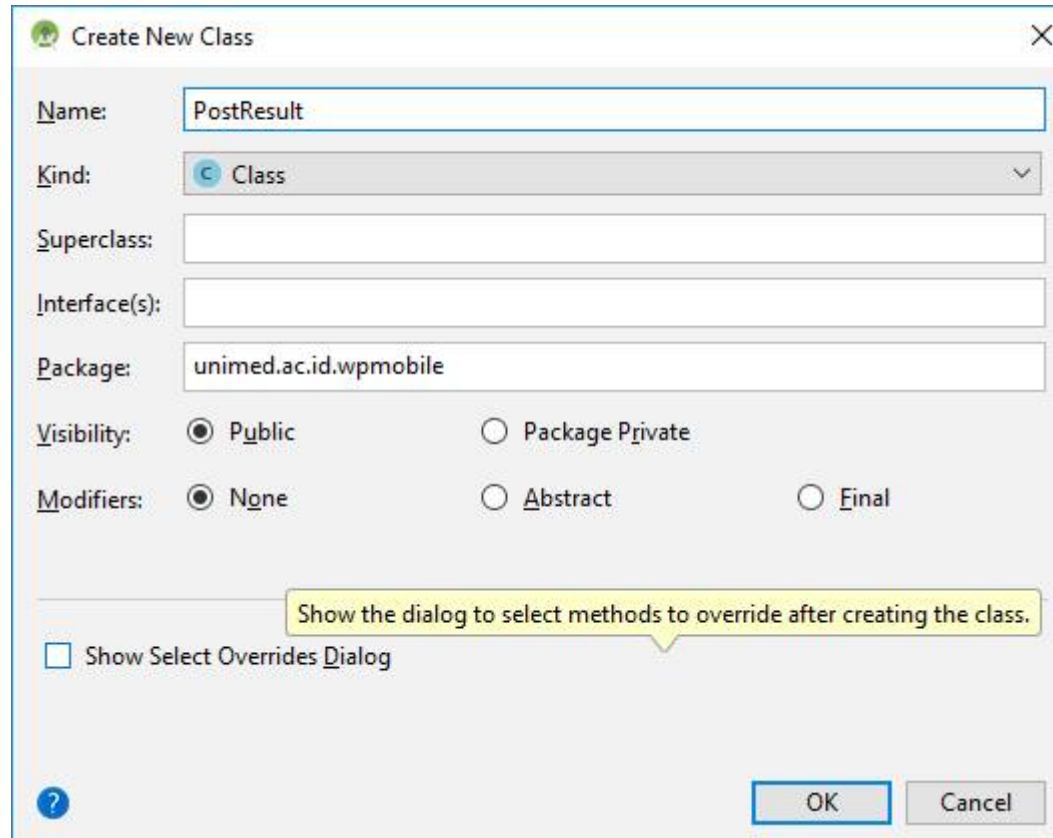
Buat class

Layout : membuat listview
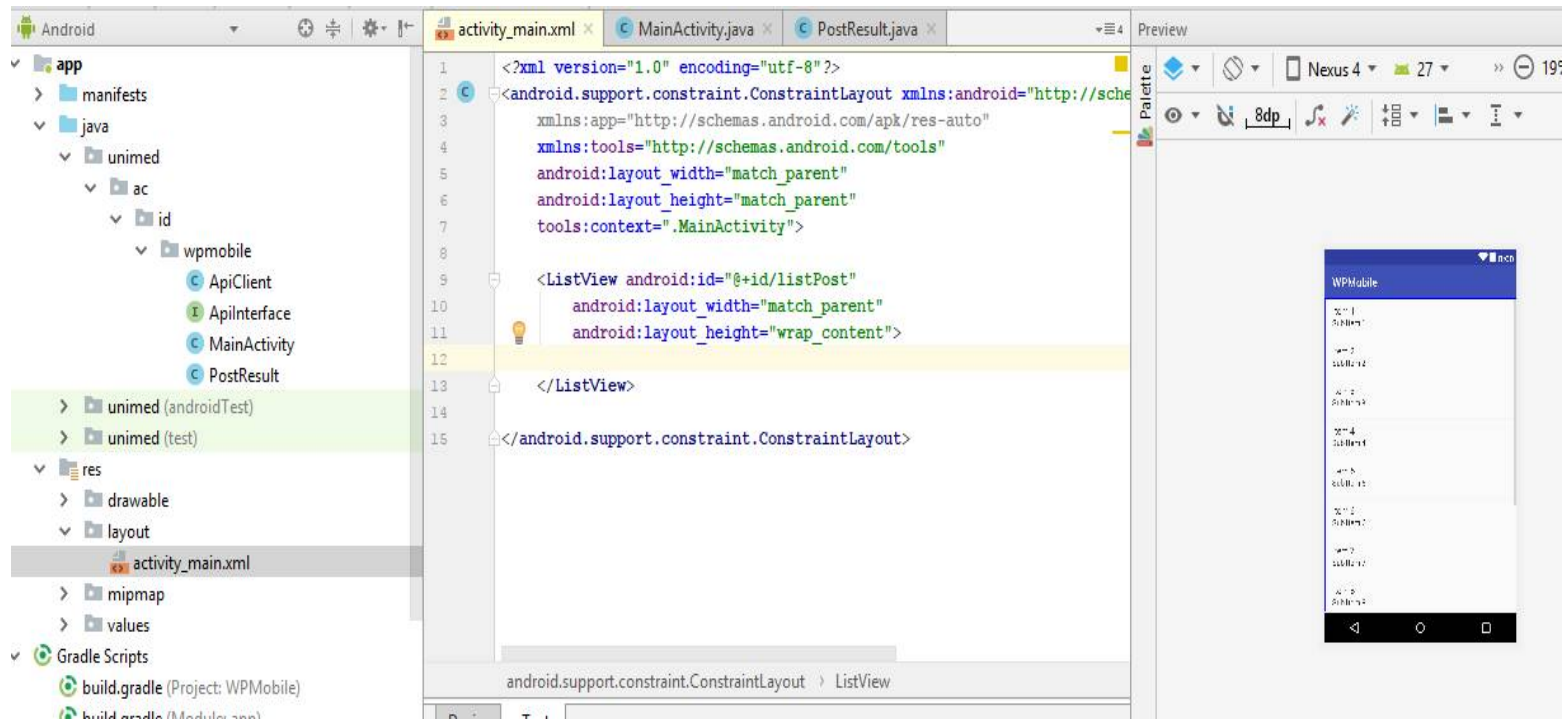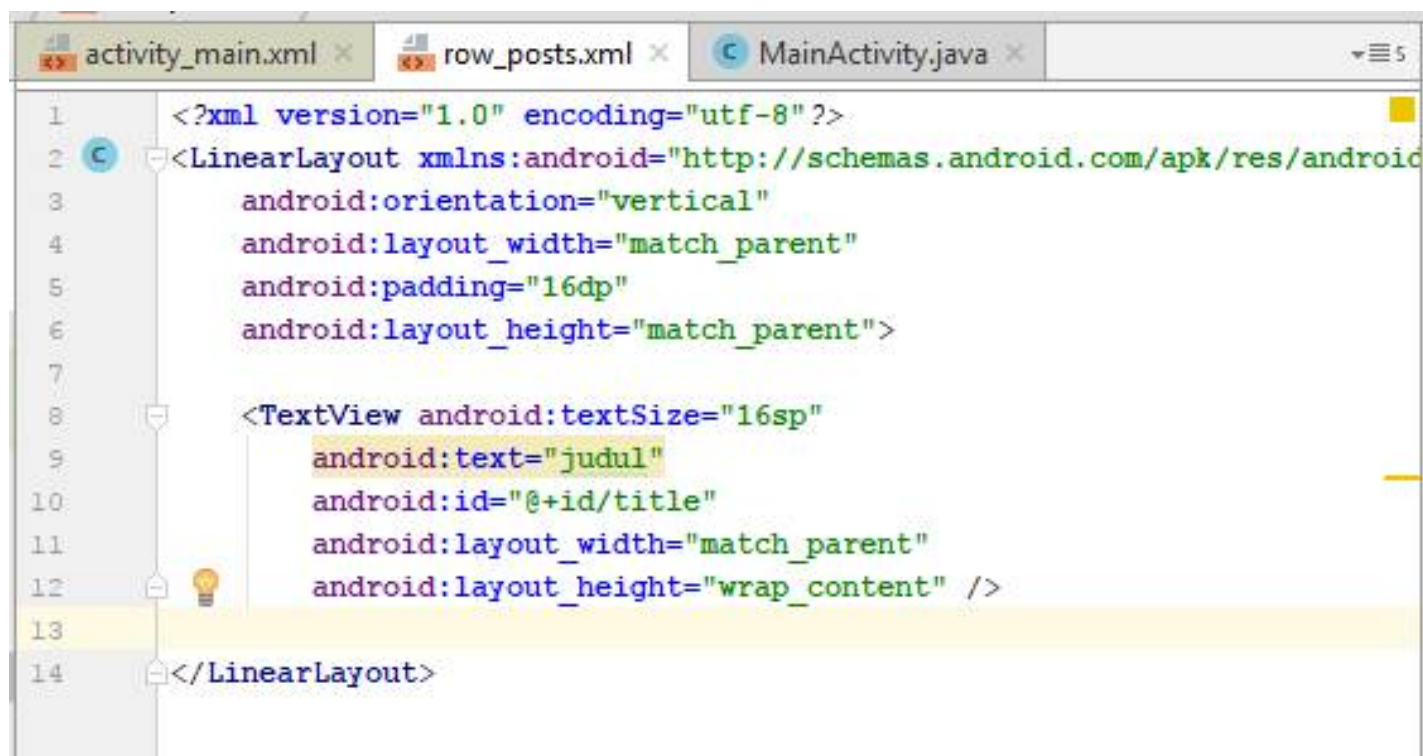
Layout : row_posts
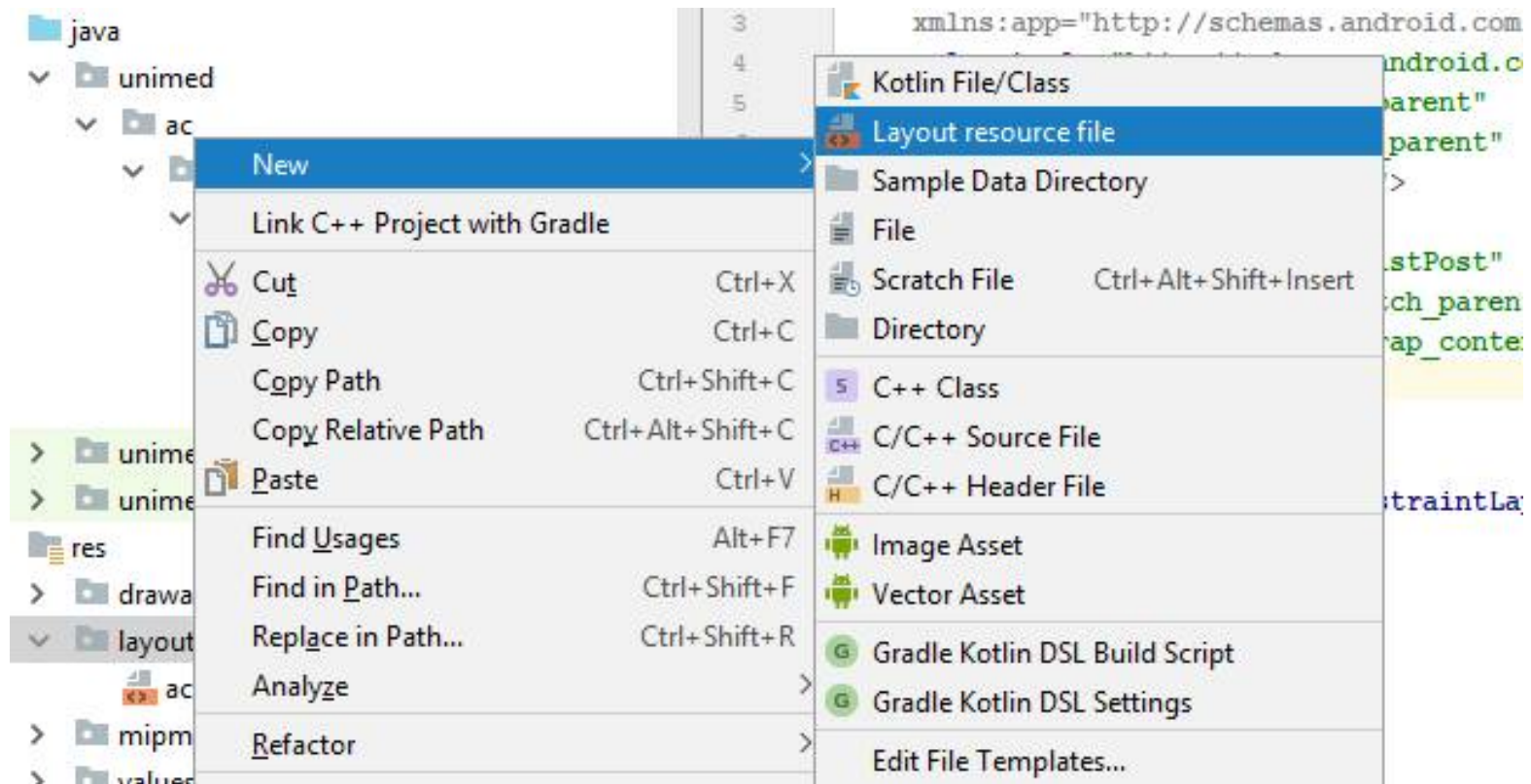
Layout : row_posts
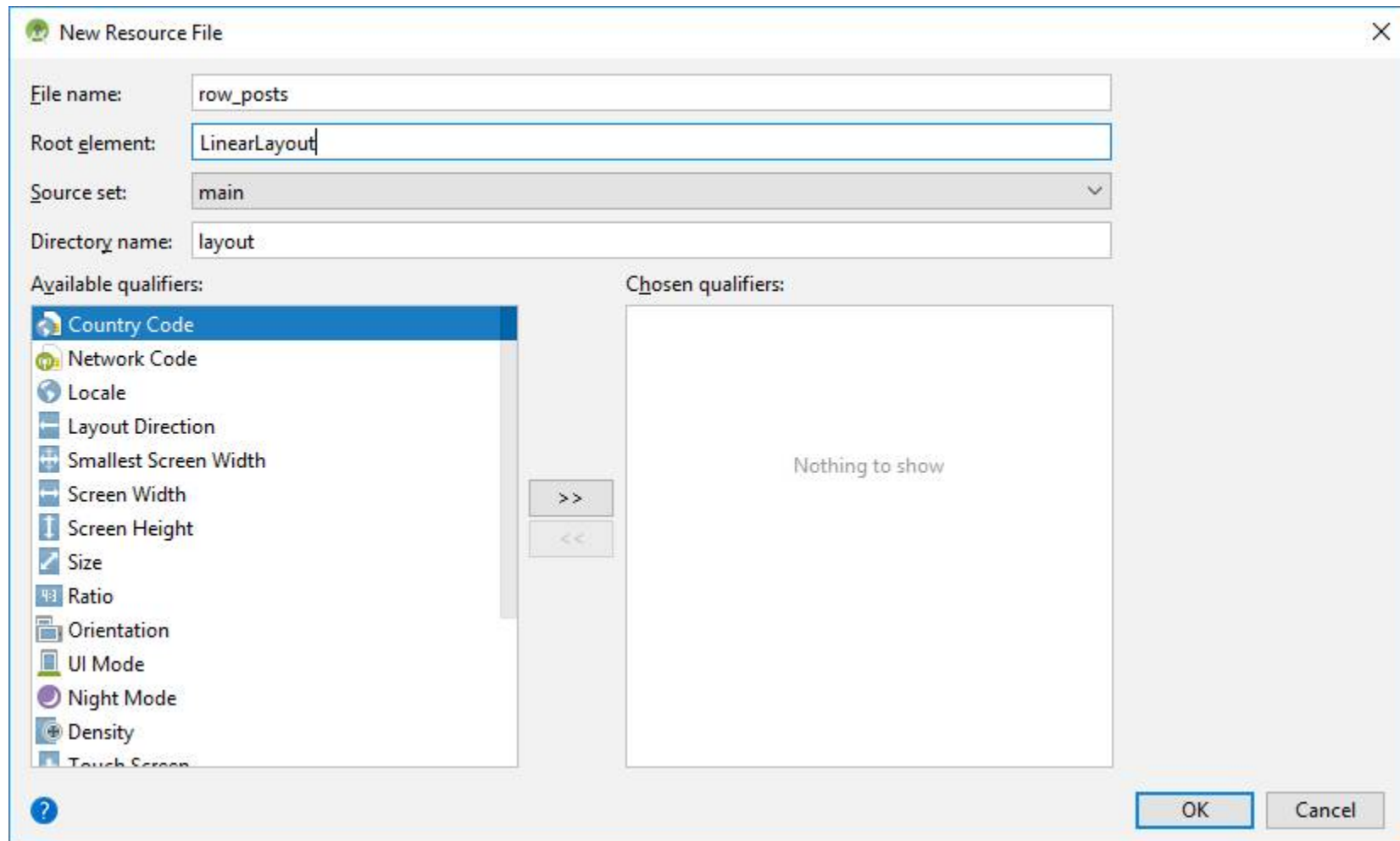
Android Project


```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:padding="16dp"
    android:layout_height="match_parent">

    <TextView android:textSize="16sp"
        android:text="judul"
        android:id="@+id/title"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

</LinearLayout>
```

Coding

```java
18  public class MainActivity extends AppCompatActivity {
19
20          private ListView listPost;
21          private ApiInterface api;
22          private ProgressDialog mProgressDialog;
23
24          @Override
25          protected void onCreate(Bundle savedInstanceState) {
26              super.onCreate(savedInstanceState);
27              setContentView(R.layout.activity_main);
28              listPost = (ListView) findViewById(R.id.listPost);
29              api = ApiClient.getClient().create(ApiInterface.class);
30              getData();
31          }
32
33          private void getData(){
34              Call<List<PostResult>> call = api.getPosts();
35              mProgressDialog = new ProgressDialog( context: MainActivity.this);
36              mProgressDialog.setIndeterminate(true);
37              mProgressDialog.setMessage("loading...");
38              mProgressDialog.show();
39              call.enqueue(new Callback<List<PostResult>>() {
40                  @Override
41                  public void onResponse(Call<List<PostResult>> call, Response<List<PostResult>>
42                          response) {
43                      if (mProgressDialog.isShowing()) {
44                          mProgressDialog.dismiss();
```

Android Project
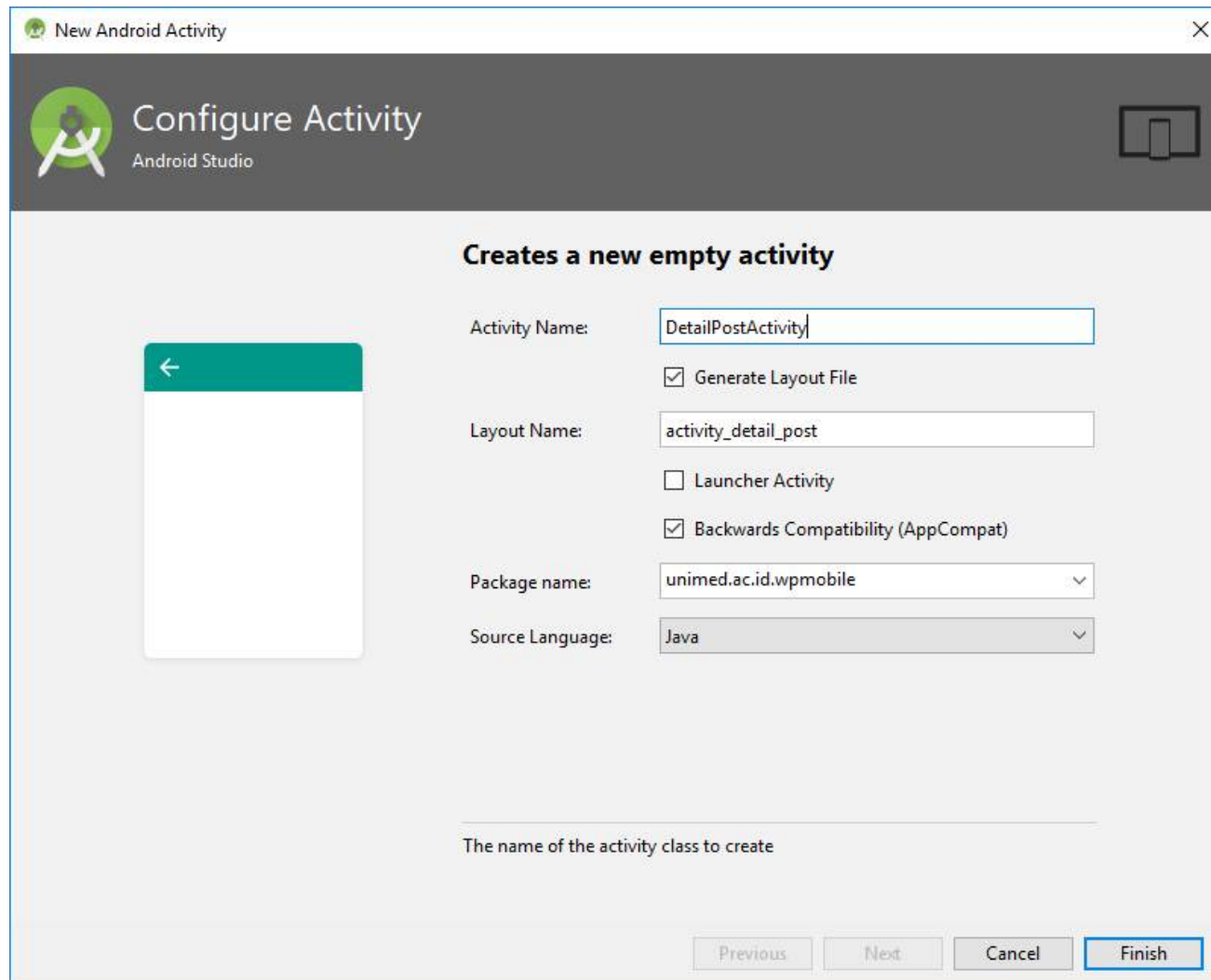
Buat Activity baru

Buat Activity baru
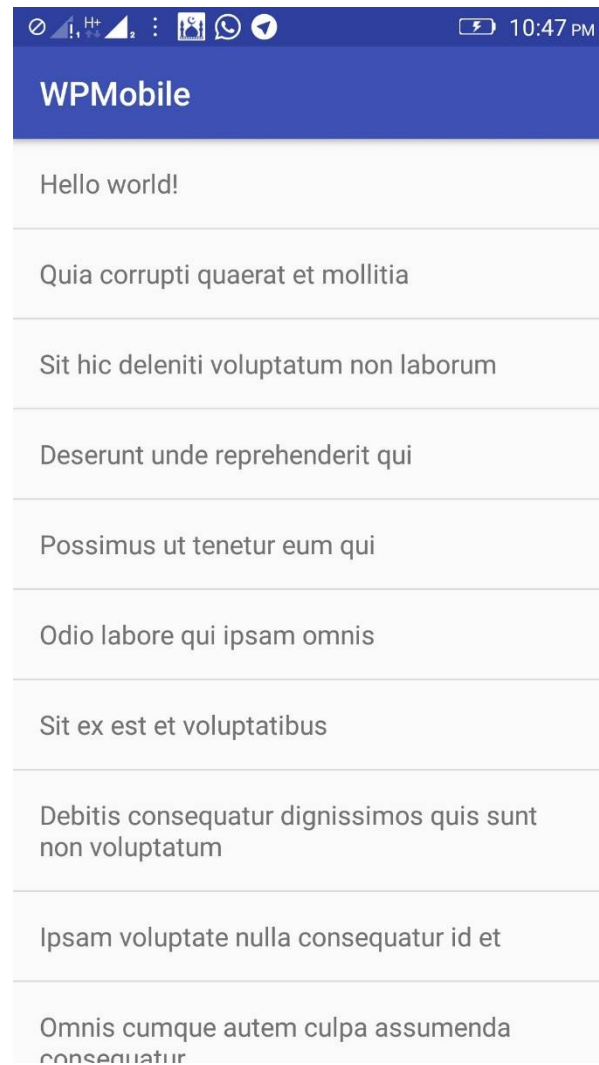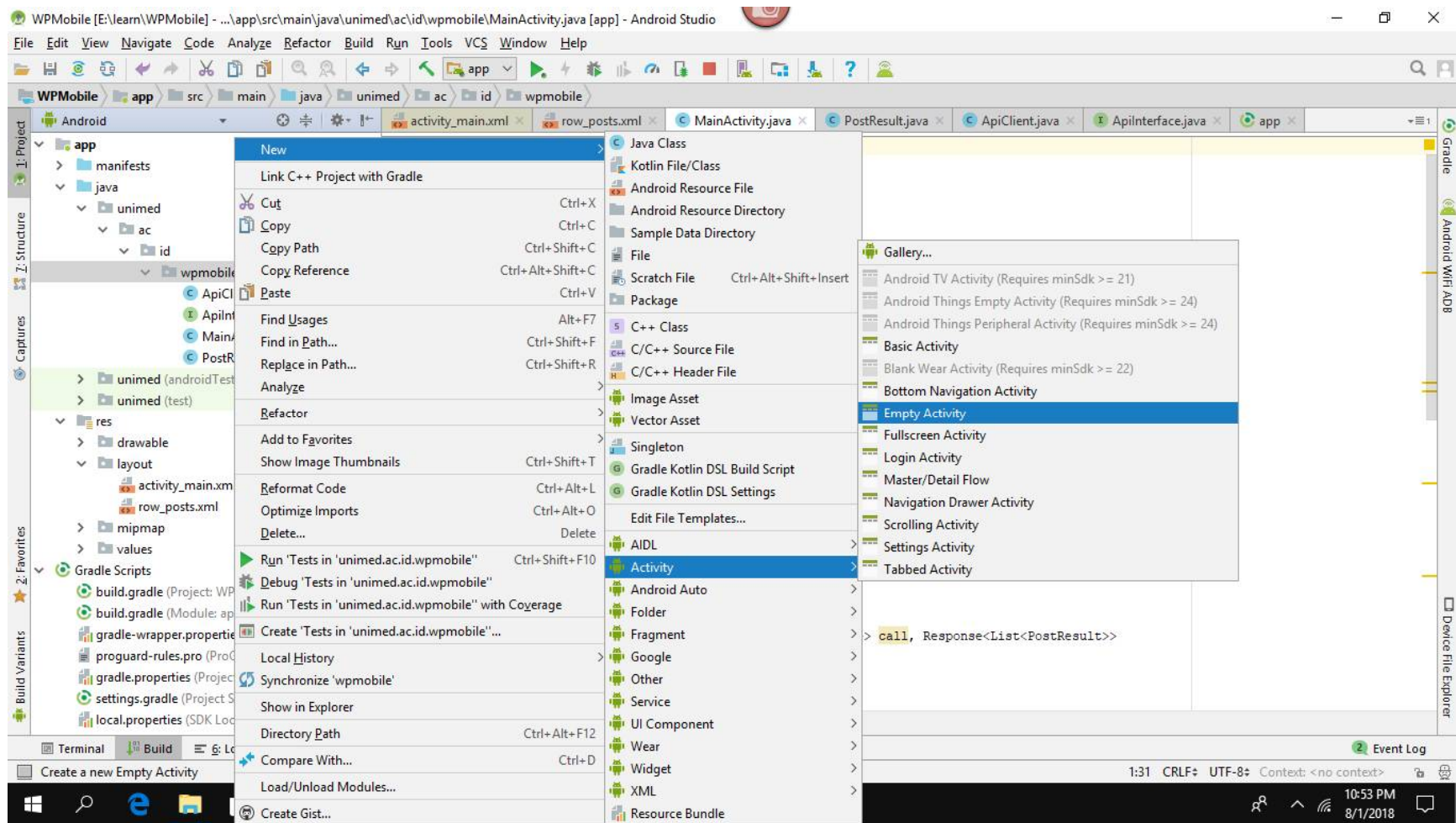
Layout

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:orientation="vertical"
    android:padding="16dp"
    android:layout_height="match_parent"
    tools:context=".DetailPostActivity">

    <TextView
        android:text="Judul"
        android:textSize="16sp"
        android:layout_marginBottom="8dp"
        android:id="@+id/judul"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <WebView
        android:id="@+id/webview"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

</LinearLayout>
```

DetailPostsActivity

```java
public class DetailPostActivity extends AppCompatActivity {

    private WebView webView;
    private TextView judul;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_detail_post);

        Intent intent = getIntent();

        String content = intent.getStringExtra( name: "content");
        String title = intent.getStringExtra( name: "title");

        webView = (WebView) findViewById(R.id.webview);
        judul = (TextView) findViewById(R.id.judul);
        judul.setText(title);
        webView.getSettings().setLoadsImagesAutomatically(true);
        webView.getSettings().setJavaScriptEnabled(true);
        webView.getSettings().setDomStorageEnabled(true);

        // Tiga baris di bawah ini agar laman yang dimuat dapat
        // melakukan zoom.
        webView.getSettings().setSupportZoom(true);
        webView.getSettings().setBuiltInZoomControls(true);
        webView.getSettings().setDisplayZoomControls(false);
        // Baris di bawah untuk menambahkan scrollbar di dalam WebView-nya
        webView.setScrollBarStyle(View.SCROLLBARS_INSIDE_OVERLAY);
```

MainActivity : Click Item Listview

```java
listPost.setAdapter(adapter);
listPost.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int position, long id) {
        PostResult object = result.get(position);
        String title = object.getTitle().getRendered();
        String content = object.getContent().getRendered();
        Intent intent = new Intent( packageContext: MainActivity.this, DetailPostActivity.class);
        intent.putExtra( name: "title", title);
        intent.putExtra( name: "content", content);
        startActivity(intent);
    }
});
```
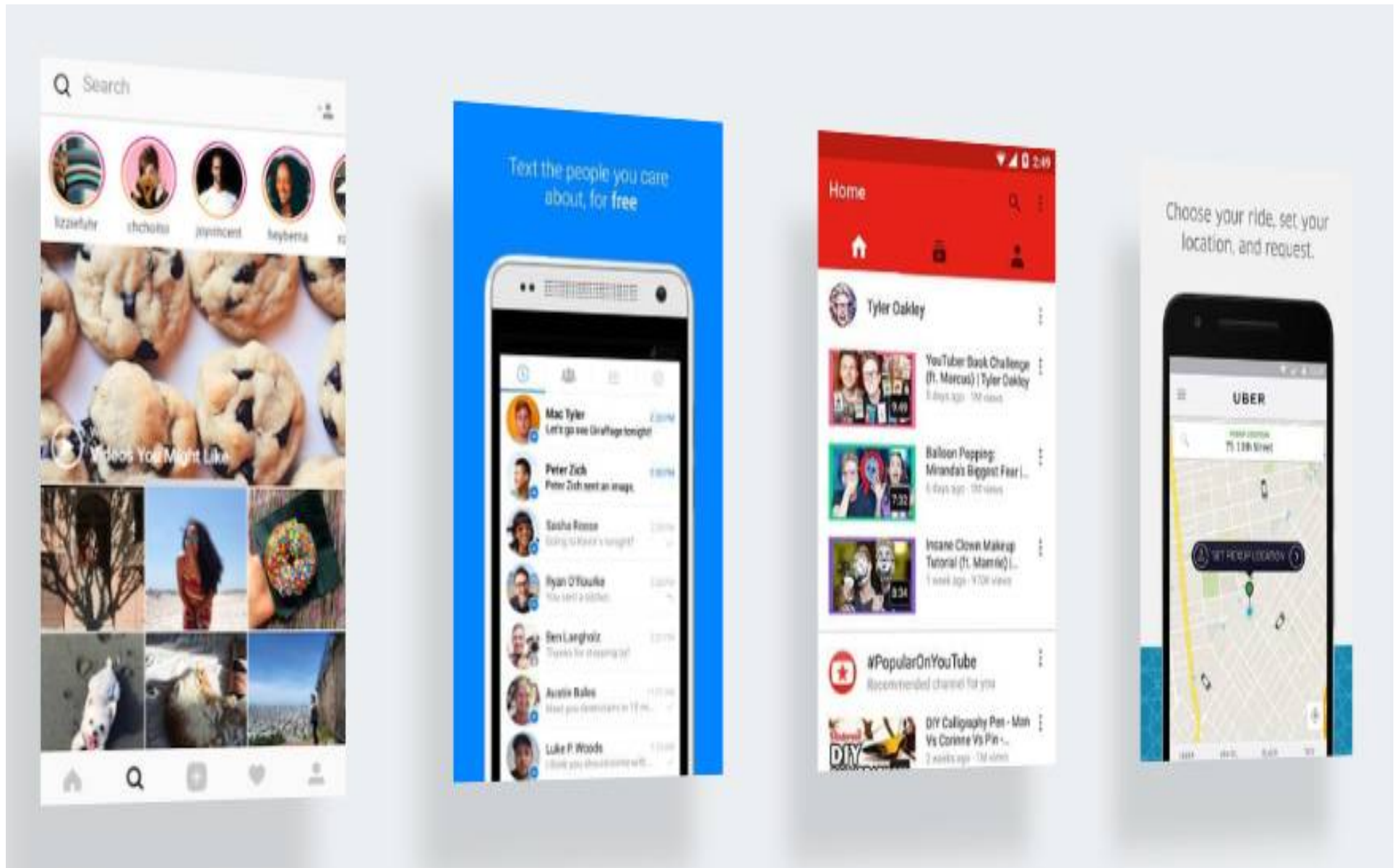
Detail content
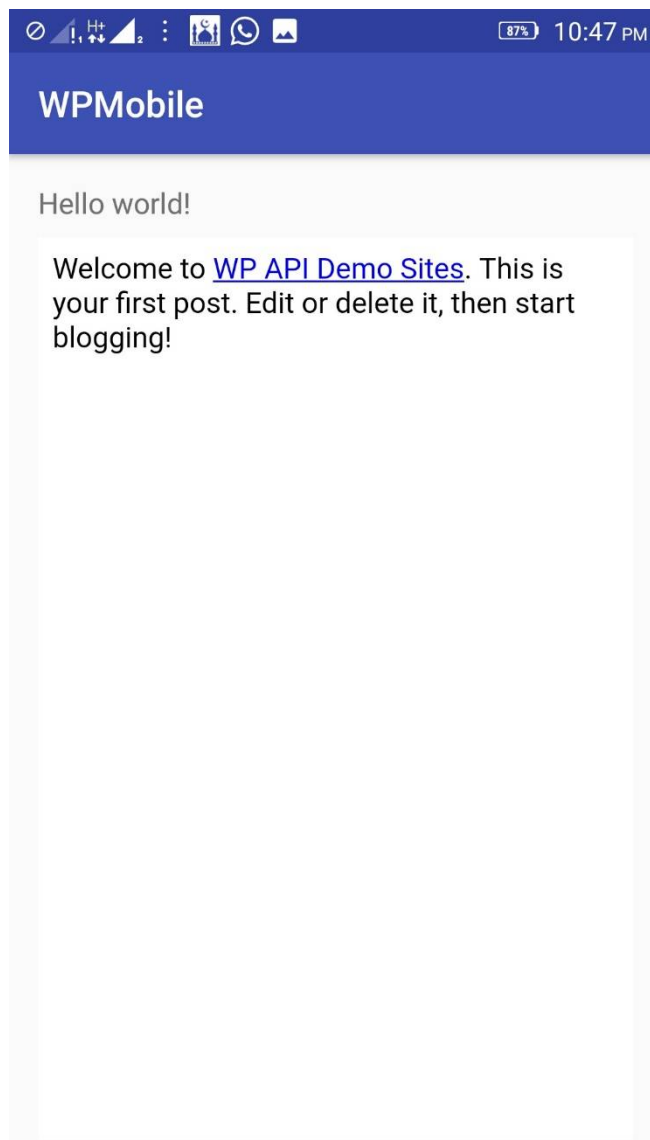
Back Button di DetailPostActivity

```java
ActionBar actionBar = getSupportActionBar();
if (actionBar != null) {
    //actionBar.setDisplayShowTitleEnabled(false);
    actionBar.setDisplayHomeAsUpEnabled(true);
}



@Override
public boolean onSupportNavigateUp() {
    onBackPressed();
    return true;
}
```
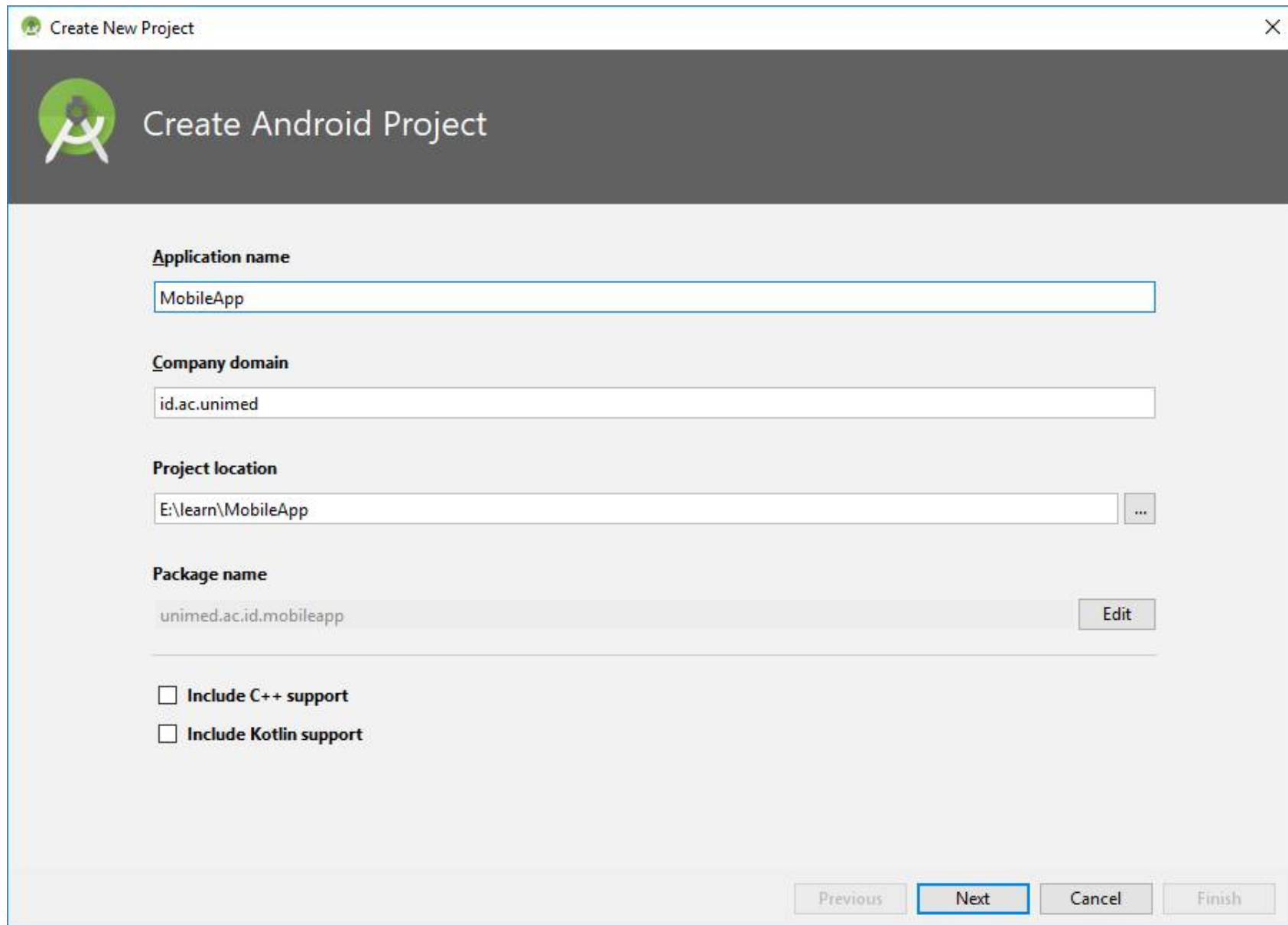
Drawer And Fragment

Project Baru

Project Baru
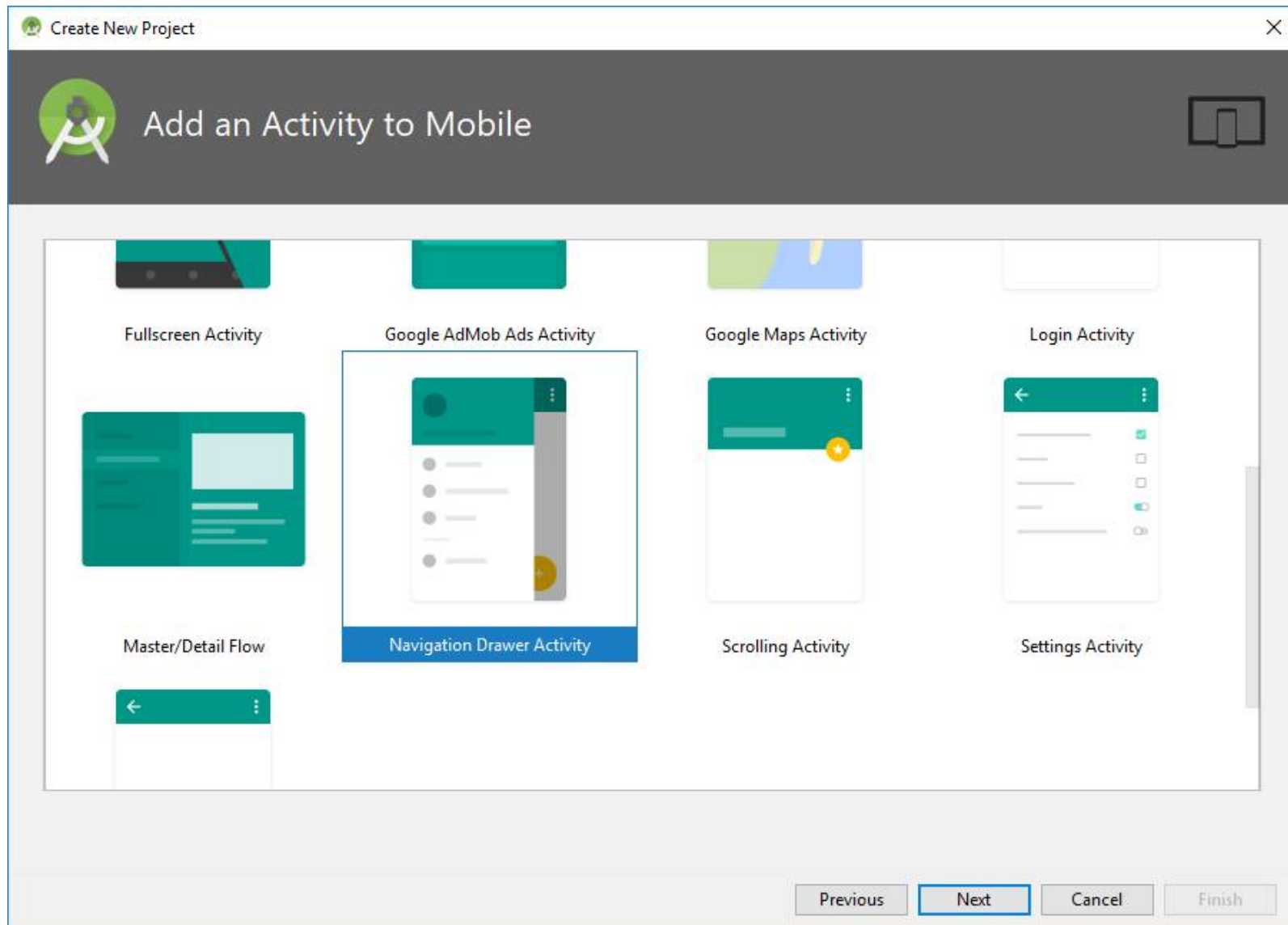
Mengatur tempat untuk fragment


```
10      android:layout_width="match_parent"
11      android:layout_height="wrap_content"
12      android:theme="@style/AppTheme.AppBarOverlay">
13
14      <android.support.v7.widget.Toolbar
15          android:id="@+id/toolbar"
16          android:layout_width="match_parent"
17          android:layout_height="?attr/actionBarSize"
18          android:background="?attr/colorPrimary"
19          app:popupTheme="@style/AppTheme.PopupOverlay" />
20
21      </android.support.design.widget.AppBarLayout>
22
23      <include layout="@layout/content_main" />
24
25      <android.support.design.widget.FloatingActionButton
26          android:id="@+id/fab"
27          android:layout_width="wrap_content"
28          android:layout_height="wrap_content"
29          android:layout_gravity="bottom|end"
30          android:layout_margin="16dp"
31          app:srcCompat="@android:drawable/ic_dialog_email" />
32
33  </android.support.design.widget.CoordinatorLayout>
```

```
5       android:layout_width="match_parent"
6       android:layout_height="match_parent"
7       tools:context=".MainActivity">
8
9       <android.support.design.widget.AppBarLayout
10          android:layout_width="match_parent"
11          android:layout_height="wrap_content"
12          android:theme="@style/AppTheme.AppBarOverlay">
13
14          <android.support.v7.widget.Toolbar
15              android:id="@+id/toolbar"
16              android:layout_width="match_parent"
17              android:layout_height="?attr/actionBarSize"
18              android:background="?attr/colorPrimary"
19              app:popupTheme="@style/AppTheme.PopupOverlay" />
20
21      </android.support.design.widget.AppBarLayout>
22
23      <FrameLayout
24          android:id="@+id/flContent"
25          app:layout_behavior="@string/appbar_scrolling_view_behavior"
26          android:layout_width="match_parent"
27          android:layout_height="match_parent" />
28
29  </android.support.design.widget.CoordinatorLayout>
```

Delete float button di MainActivity.java

```java
FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
fab.setOnClickListener((view) -> {
        Snackbar.make(view, text: "Replace with your own action", Snackbar.LENGTH_LONG)
                .setAction(text: "Action", listener: null).show();
});
```

Buat Fragment
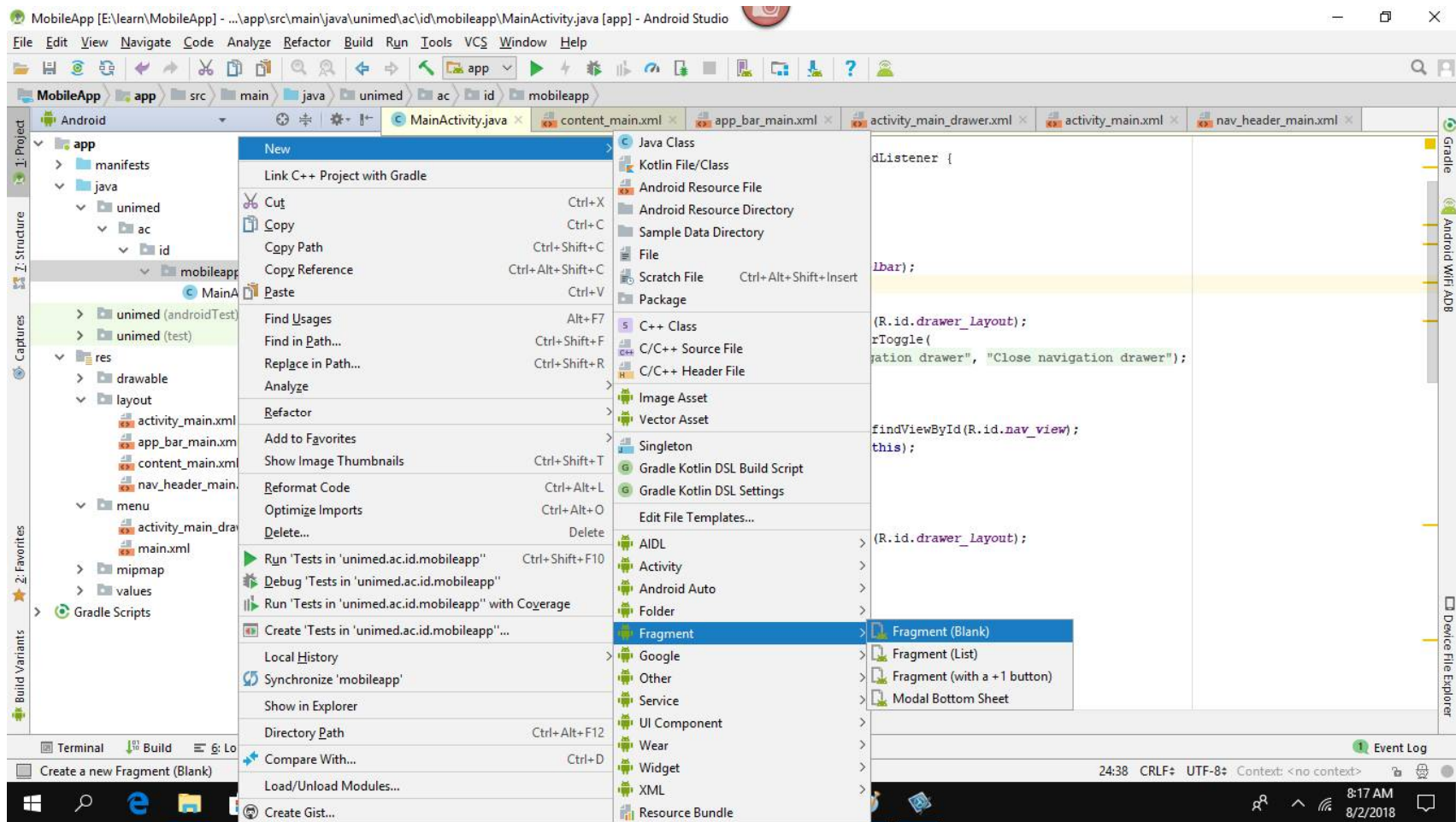
Buat Fragment
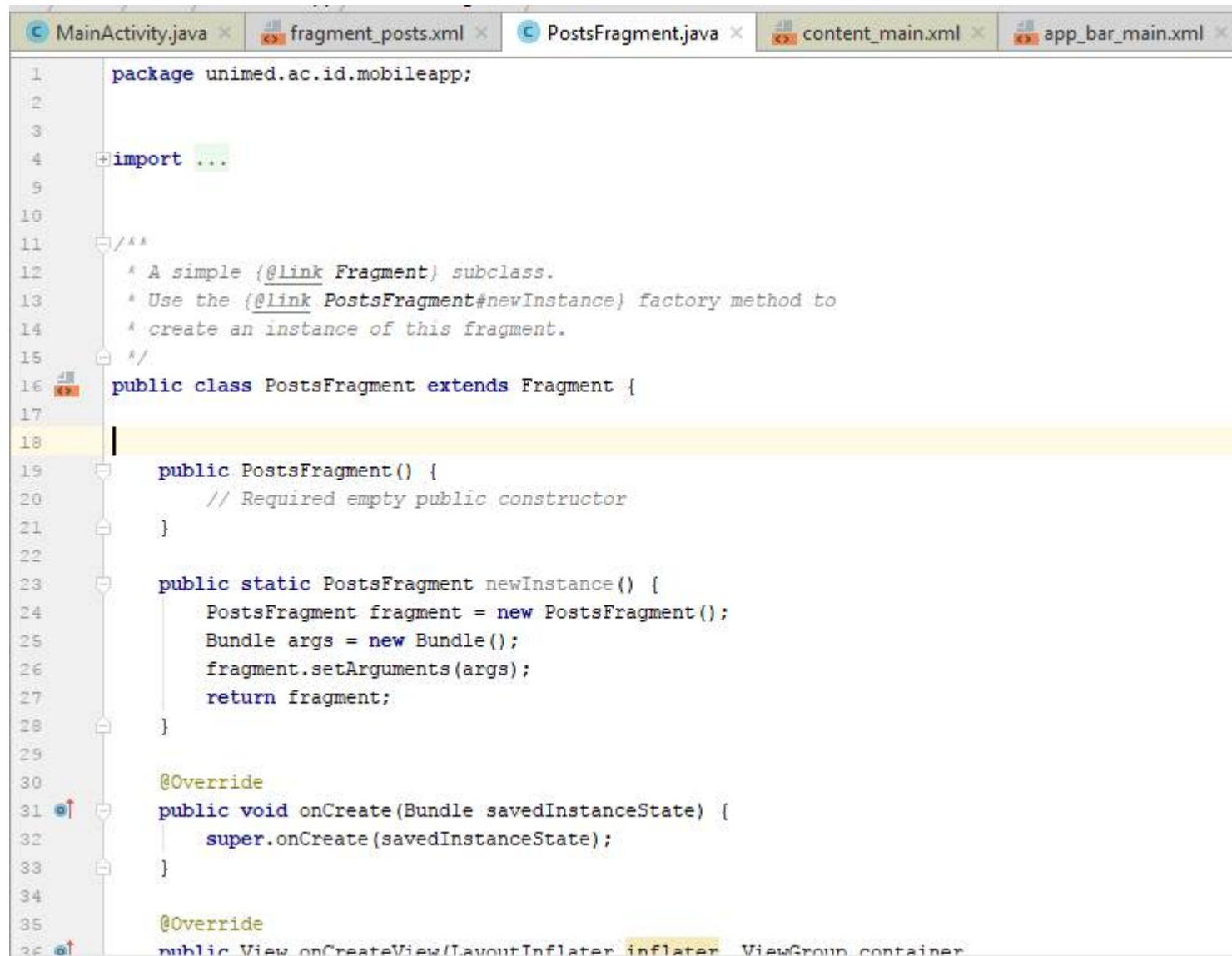
Edit kode fragment

```java
package unimed.ac.id.mobileapp;

import ...

/**
 * A simple {@link Fragment} subclass.
 * Use the {@link PostsFragment#newInstance} factory method to
 * create an instance of this fragment.
 */
public class PostsFragment extends Fragment {


    public PostsFragment() {
        // Required empty public constructor
    }

    public static PostsFragment newInstance() {
        PostsFragment fragment = new PostsFragment();
        Bundle args = new Bundle();
        fragment.setArguments(args);
        return fragment;
    }

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

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container
```
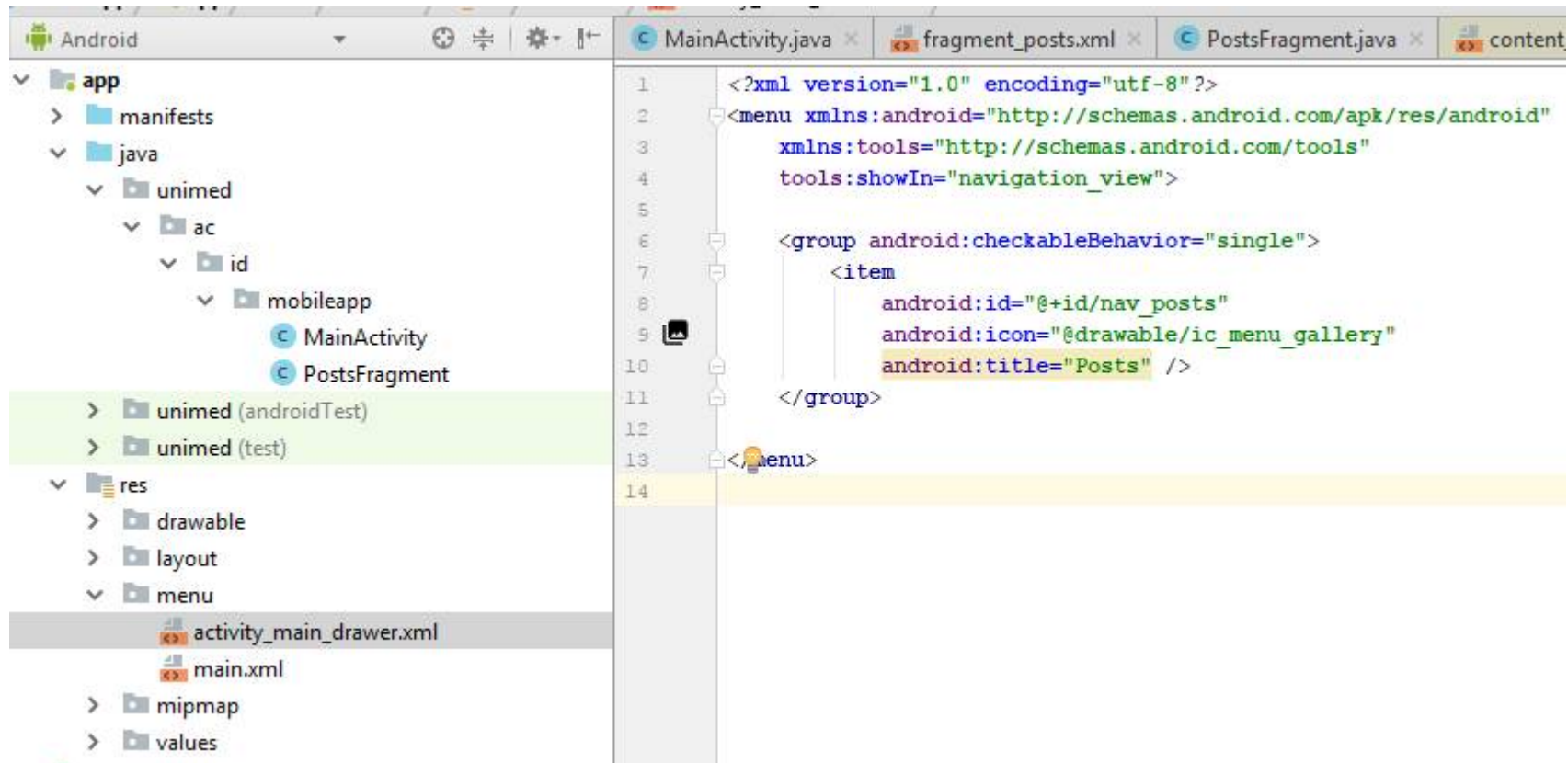
Tabs: MainActivity.java | fragment_posts.xml | PostsFragment.java | content_main.xml | app_bar_main.xml

Edit MainActivity


```java
                return super.onOptionsItemSelected(item);
        }

        @SuppressWarnings("StatementWithEmptyBody")
        @Override
        public boolean onNavigationItemSelected(MenuItem item) {
                // Handle navigation view item clicks here.
                int id = item.getItemId();
                Fragment fragment = null;

                if (id == R.id.nav_camera) {
                    fragment = PostsFragment.newInstance();
                } else if (id == R.id.nav_gallery) {

                } else if (id == R.id.nav_slideshow) {

                } else if (id == R.id.nav_manage) {

                } else if (id == R.id.nav_share) {

                } else if (id == R.id.nav_send) {

                }

                // Insert the fragment by replacing any existing fragment
                FragmentManager fragmentManager = getSupportFragmentManager();
                fragmentManager.beginTransaction().replace(R.id.flContent, fragment).commit();

                DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
                drawer.closeDrawer(GravityCompat.START);
                return true;
```

Edit Menu

Edit MainActivity

```java
64              return true;
65          }
66
67          return super.onOptionsItemSelected(item);
68      }
69      |
70      @SuppressWarnings("StatementWithEmptyBody")
71      @Override
72      public boolean onNavigationItemSelected(MenuItem item) {
73          // Handle navigation view item clicks here.
74          int id = item.getItemId();
75          Fragment fragment = null;
76
77          if (id == R.id.nav_posts) {
78              fragment = PostsFragment.newInstance();
79          }
80
81          // Insert the fragment by replacing any existing fragment
82          FragmentManager fragmentManager = getSupportFragmentManager();
83          fragmentManager.beginTransaction().replace(R.id.flContent, fragment).commit();
84
85          DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
86          drawer.closeDrawer(GravityCompat.START);
87          return true;
88      }
89  }
90
```

Menambah Fragment
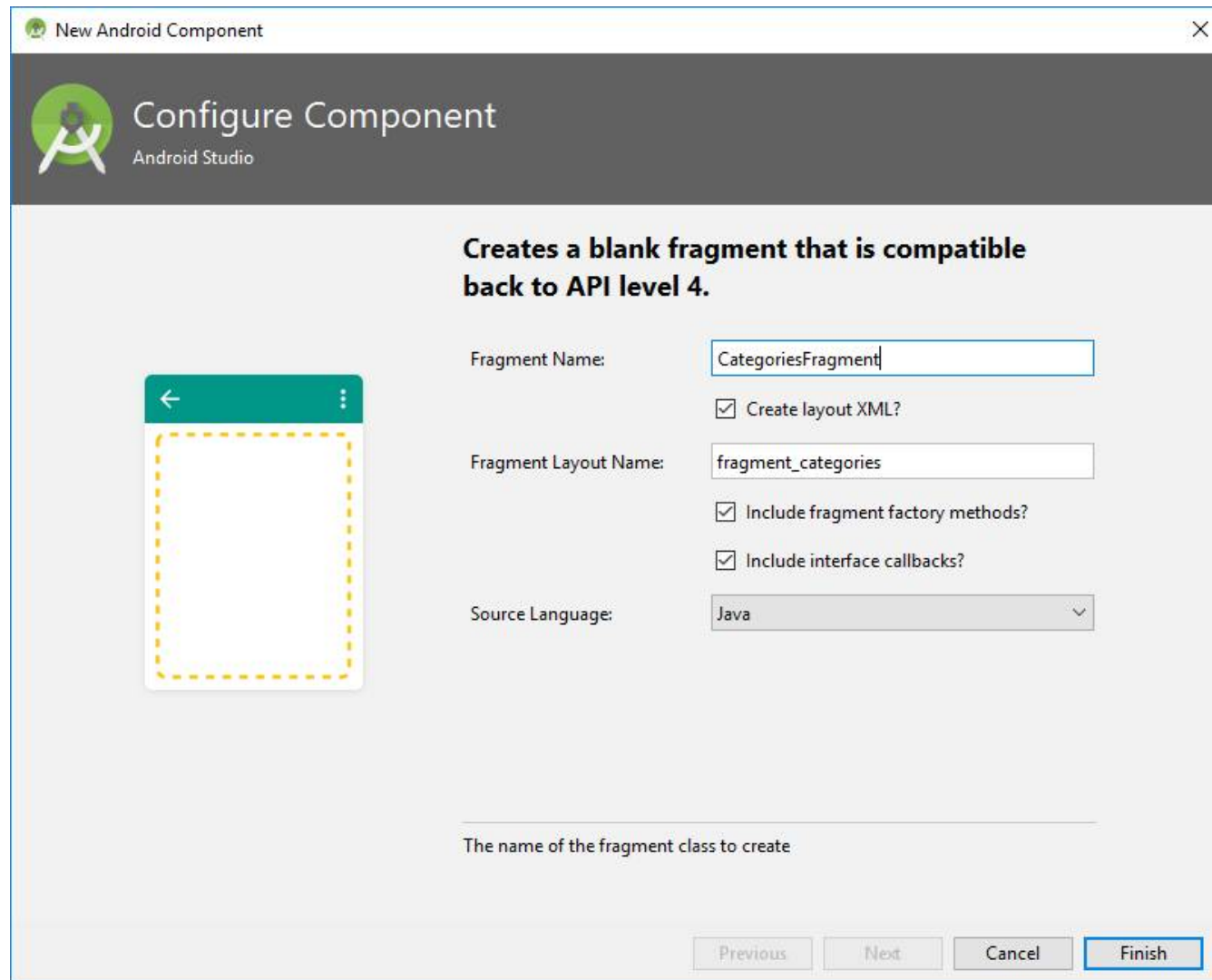
Edit CategoriesFragment.java

```java
public class CategoriesFragment extends Fragment {


    private OnFragmentInteractionListener mListener;

    public CategoriesFragment() {
        // Required empty public constructor
    }


    // TODO: Rename and change types and number of parameters
    public static CategoriesFragment newInstance() {
        CategoriesFragment fragment = new CategoriesFragment();
        Bundle args = new Bundle();


        fragment.setArguments(args);
        return fragment;
    }


    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
```
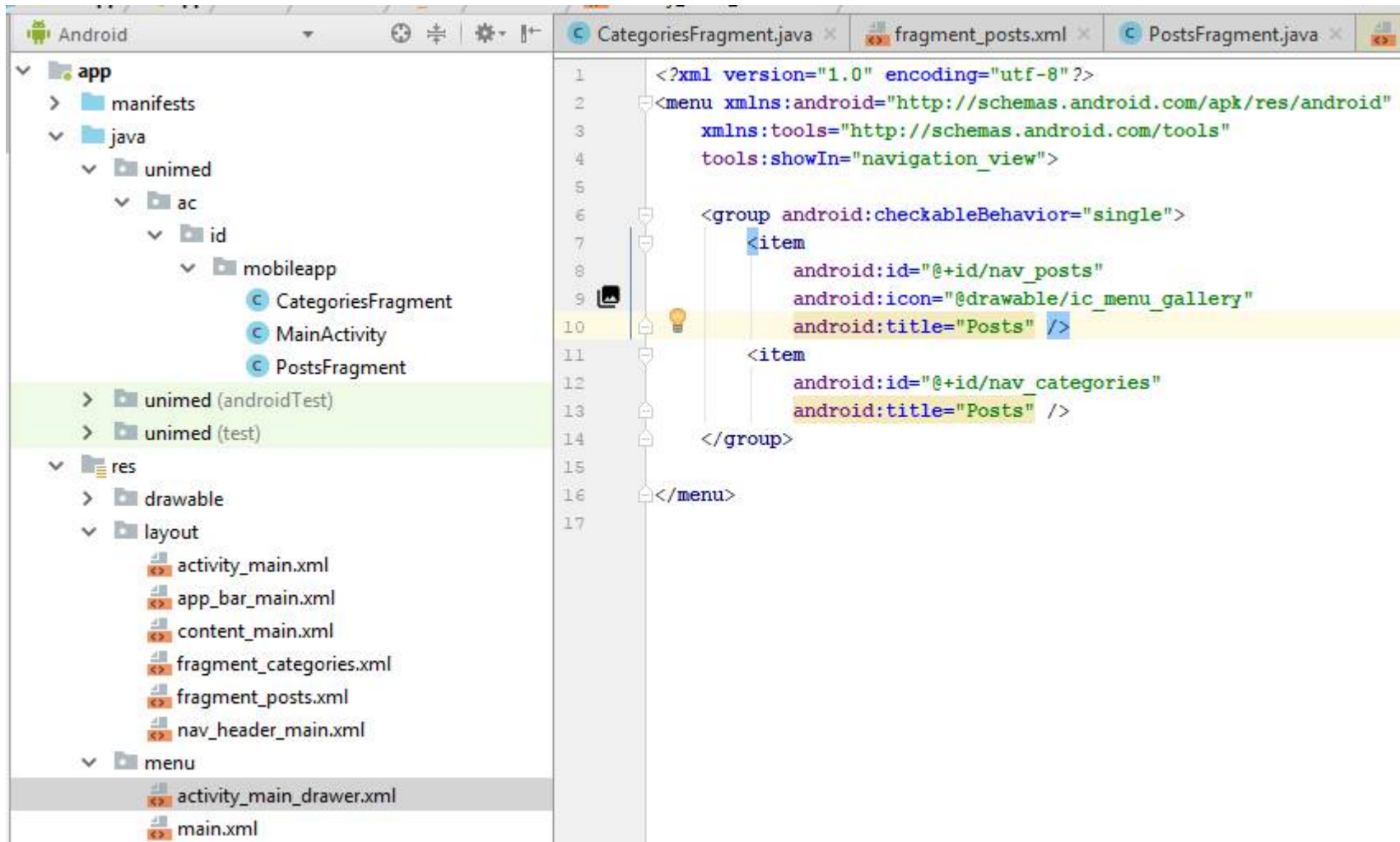
Edit Menu

Edit MainActivity

```java
@SuppressWarnings("StatementWithEmptyBody")
@Override
public boolean onNavigationItemSelected(MenuItem item) {
    // Handle navigation view item clicks here.
    int id = item.getItemId();
    Fragment fragment = null;

    if (id == R.id.nav_posts) {
        fragment = PostsFragment.newInstance();
    }else if (id == R.id.nav_categories) {
        fragment = CategoriesFragment.newInstance();

    }
```