



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





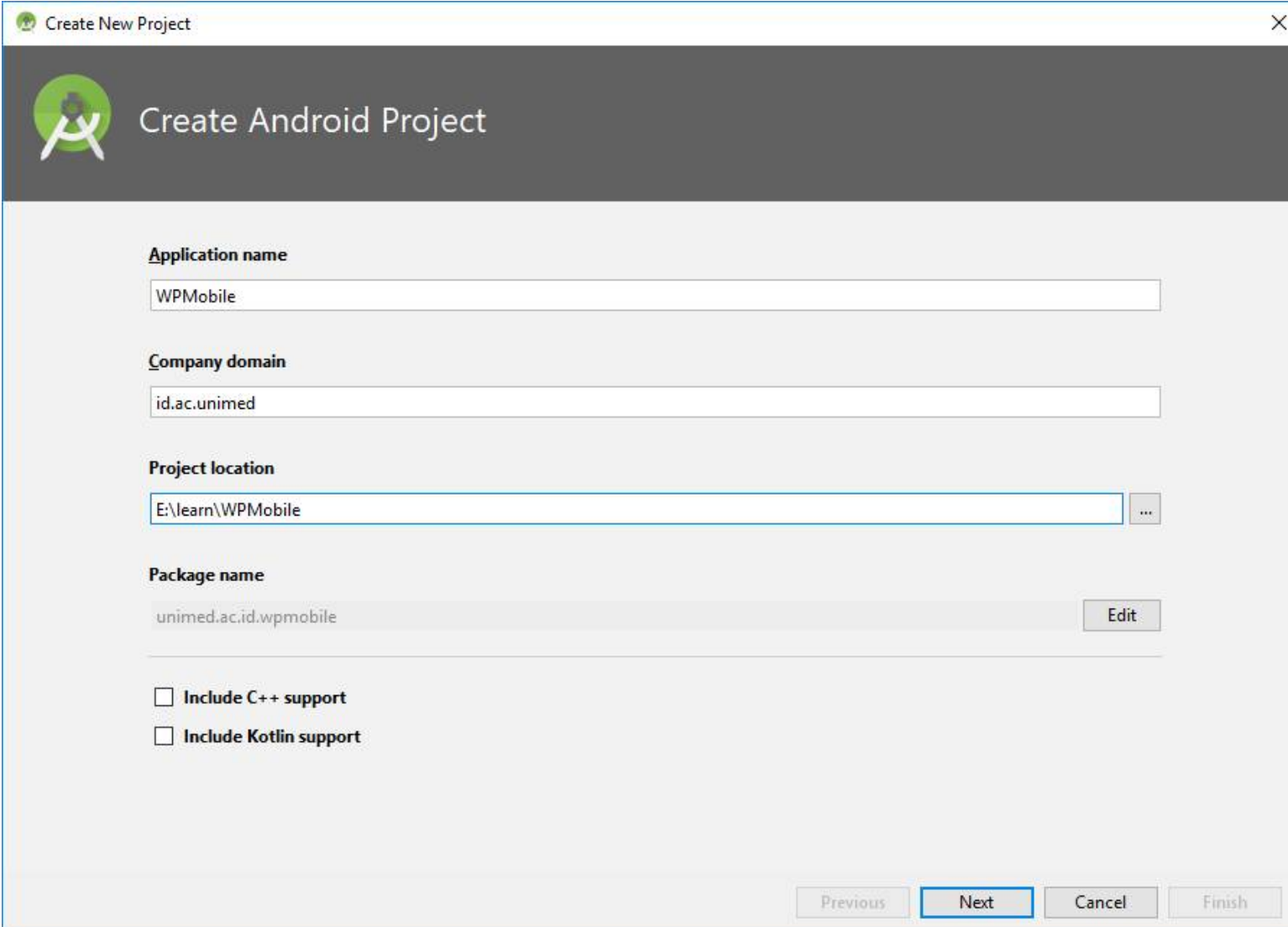
ANDROID CLIENT

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



Create New Project

Create Android Project

Application name
WPMobile

Company domain
id.ac.unimed

Project location
E:\learn\WPMobile


Package name
unimed.ac.id.wpmobile Edit


☐ Include C++ support

☐ Include Kotlin support

Previous Next Cancel Finish

Android Project

 Create New Project ✕

 Target Android Devices

Select the form factors and minimum SDK

Some devices require additional SDKs. Low API levels target more devices, but offer fewer API features.

☒ **Phone and Tablet**

API 15: Android 4.0.3 (IceCreamSandwich) ▾

By targeting **API 15 and later**, your app will run on approximately **100%** of devices. [Help me choose](#)

☐ Include Android Instant App support

☐ **Wear**

API 21: Android 5.0 (Lollipop) ▾

☐ **TV**

API 21: Android 5.0 (Lollipop) ▾

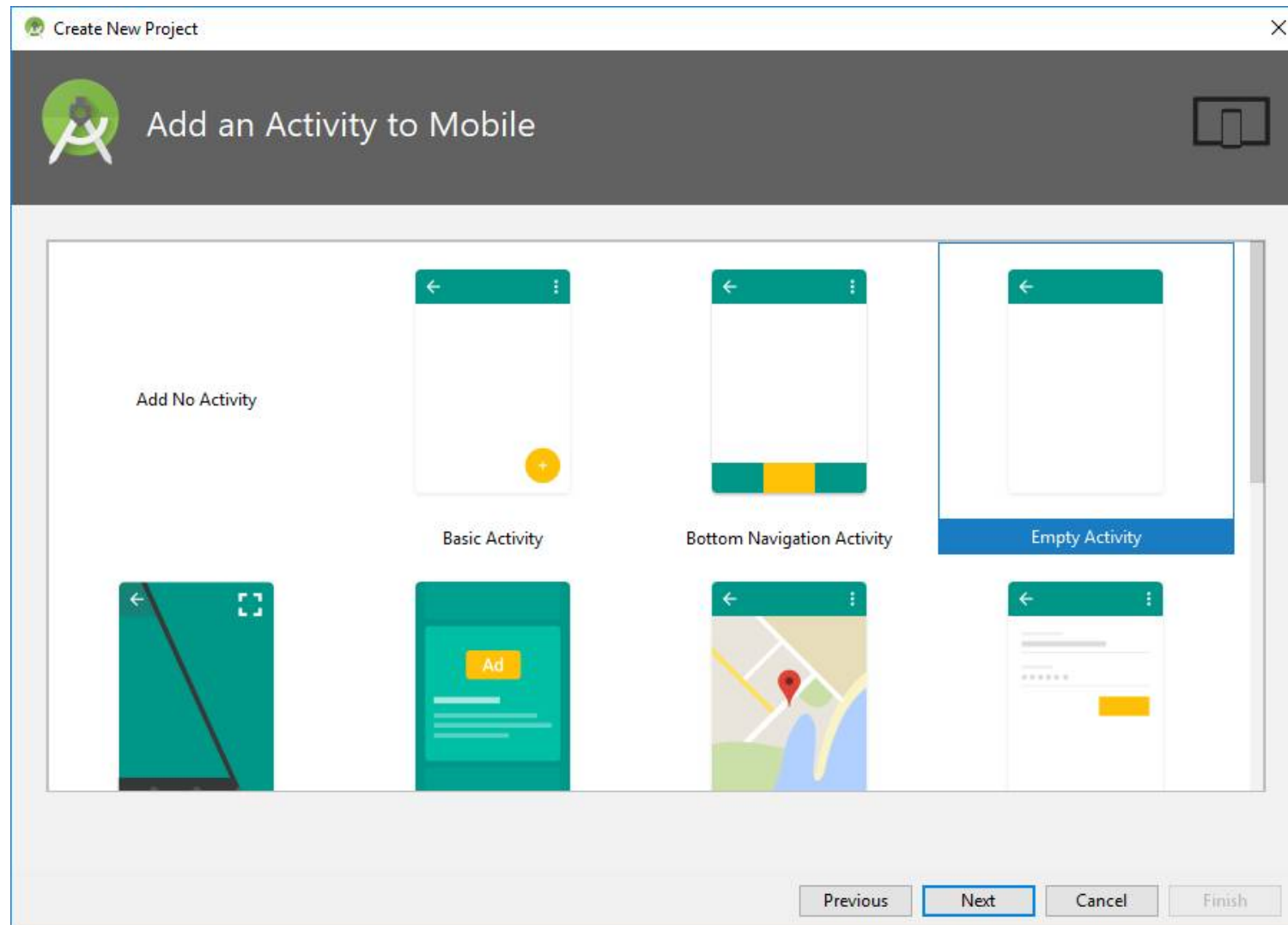
☐ **Android Auto**

☐ **Android Things**

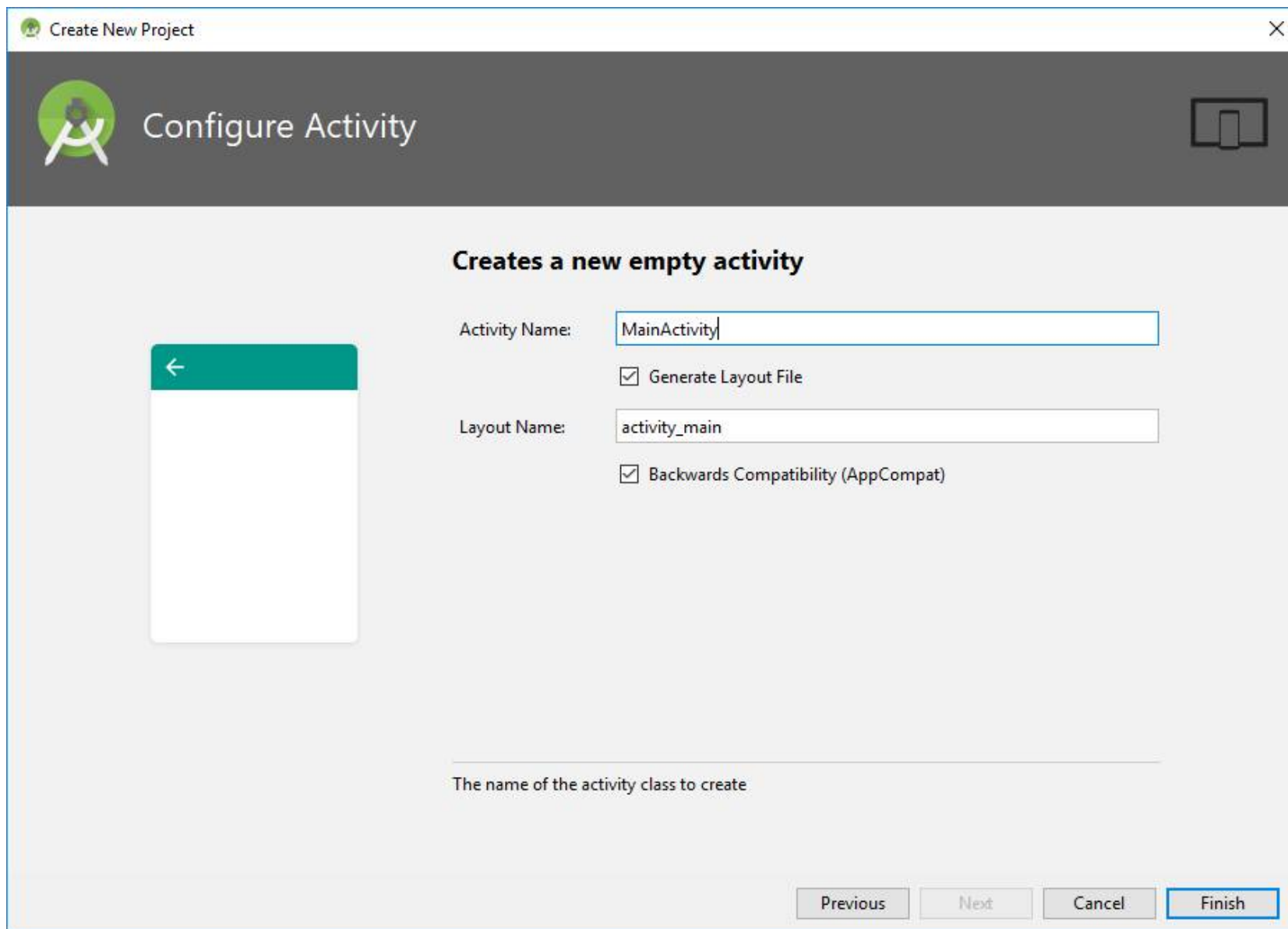
API 24: Android 7.0 (Nougat) ▾

Previous Next Cancel Finish

Android Project



Android Project



Create New Project

Configure Activity

Creates a new empty activity

Activity Name: MainActivity

☒ Generate Layout File

Layout Name: activity_main

☒ Backwards Compatibility (AppCompat)

The name of the activity class to create

Previous Next Cancel Finish

Import Library

Gradle files have changed since last project sync. A project sync may be necessary for the IDE to work properly.

[Sync Now](#)

```
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



The screenshot shows an IDE window with four tabs: activity_main.xml, MainActivity.java, app, and AndroidManifest.xml. The AndroidManifest.xml tab is active, displaying the following XML code:

```
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
```

A lightbulb icon is visible next to line 3, and a blue selection bar is under the closing tag on line 4.



Convert JSON to POJO

<http://www.jsonschema2pojo.org/>

Package

Class name

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

Class name

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 



```
this.wpTerm = wpTerm;
}

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

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

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

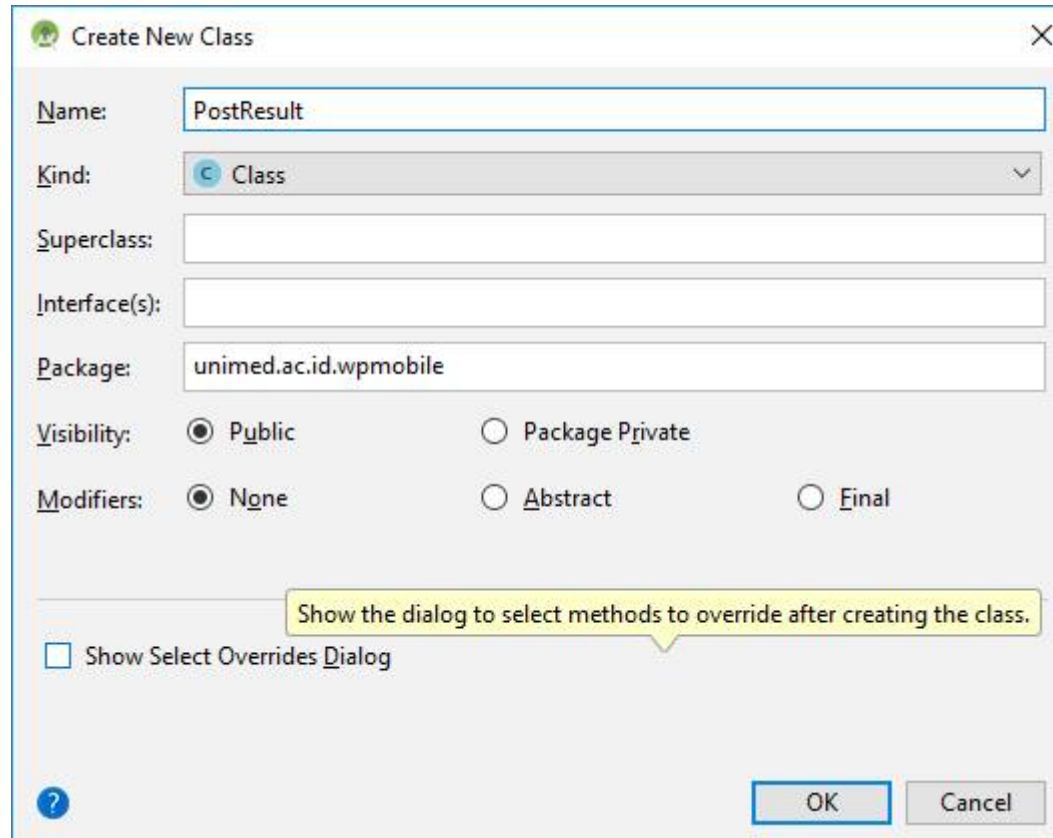
package unimed.ac.id.wpmobile;

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



Create New Class

Name:

Kind: ☒ Class

Superclass:

Interface(s):

Package:

Visibility: ☒ Public ☐ Package Private

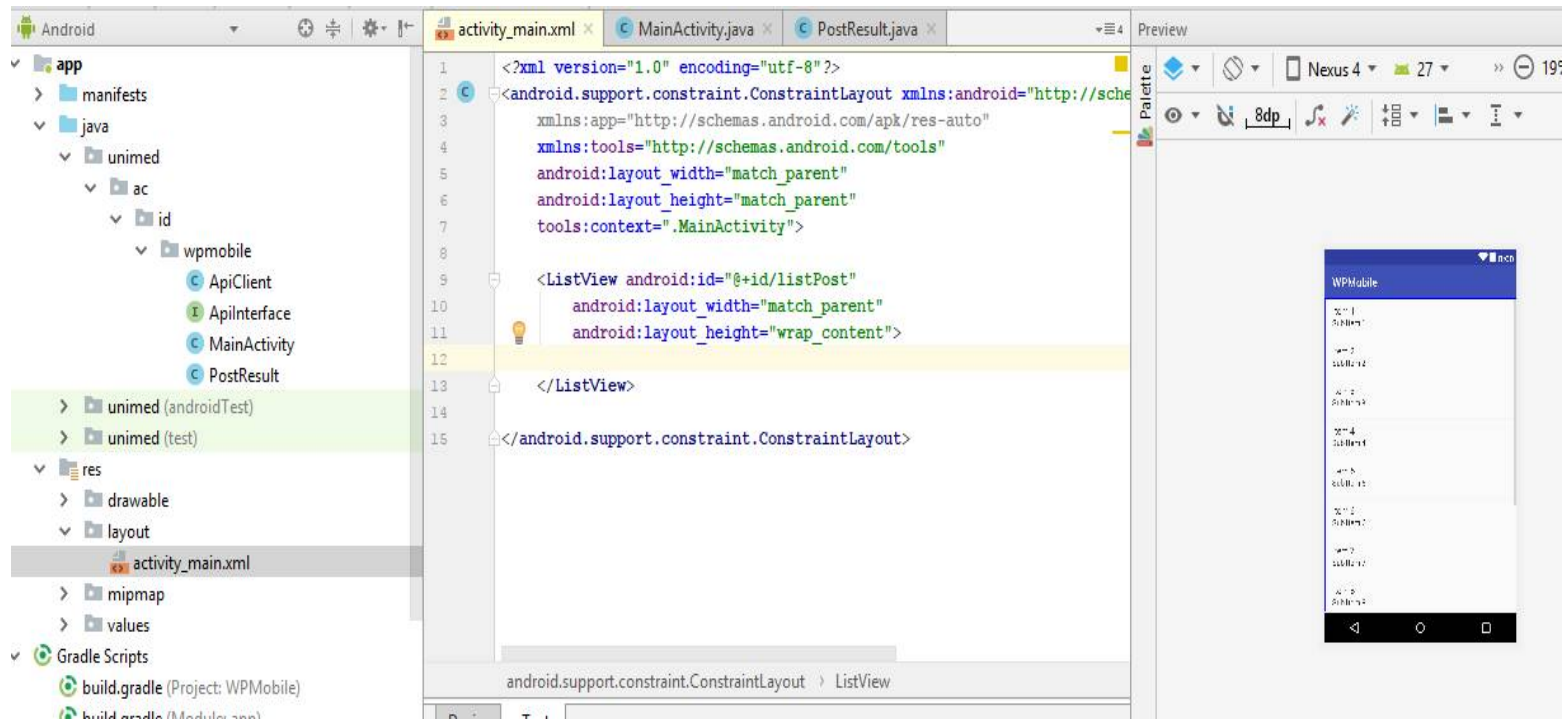
Modifiers: ☒ None ☐ Abstract ☐ Final

☐ Show Select Overrides Dialog

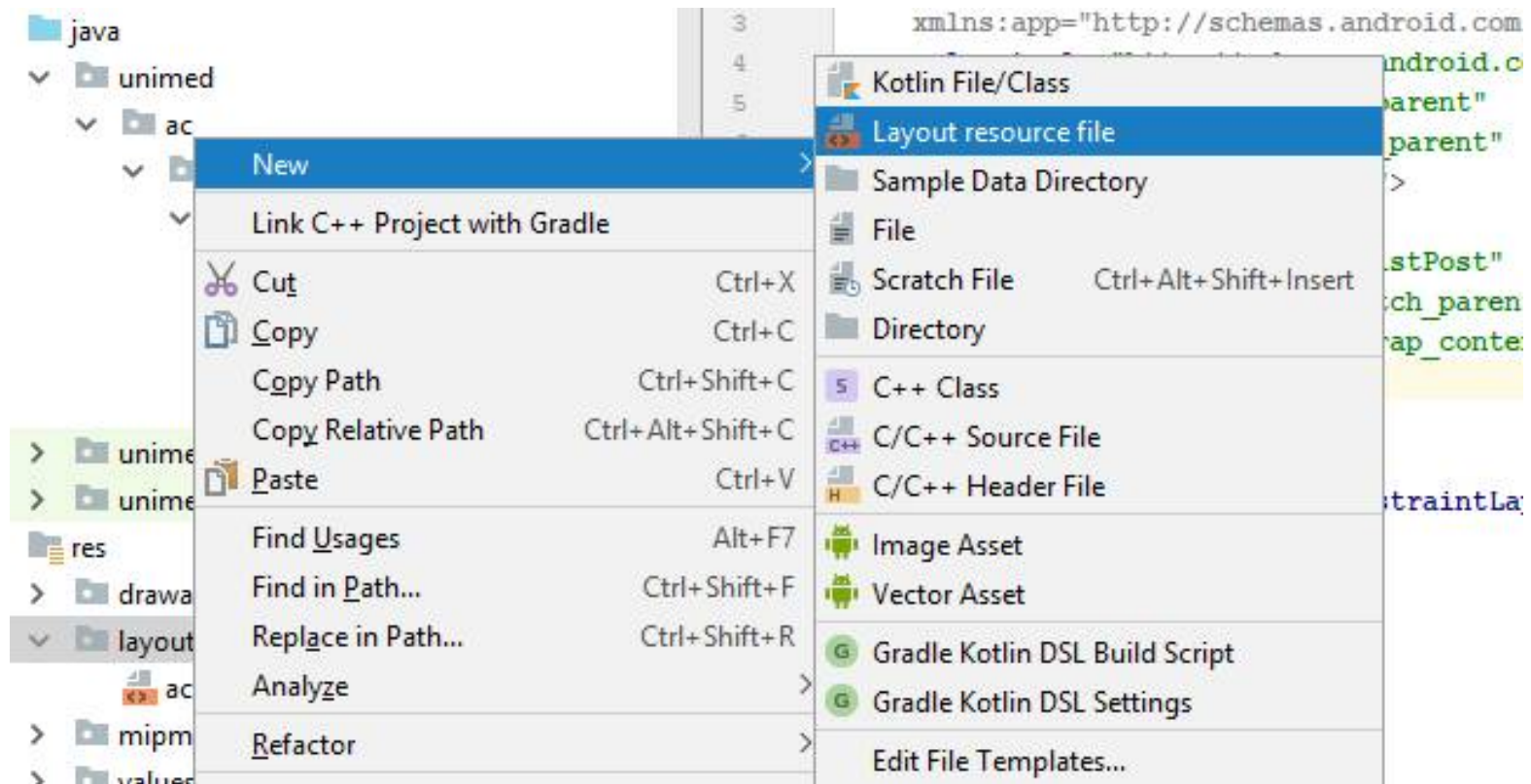
Show the dialog to select methods to override after creating the class.

OK Cancel

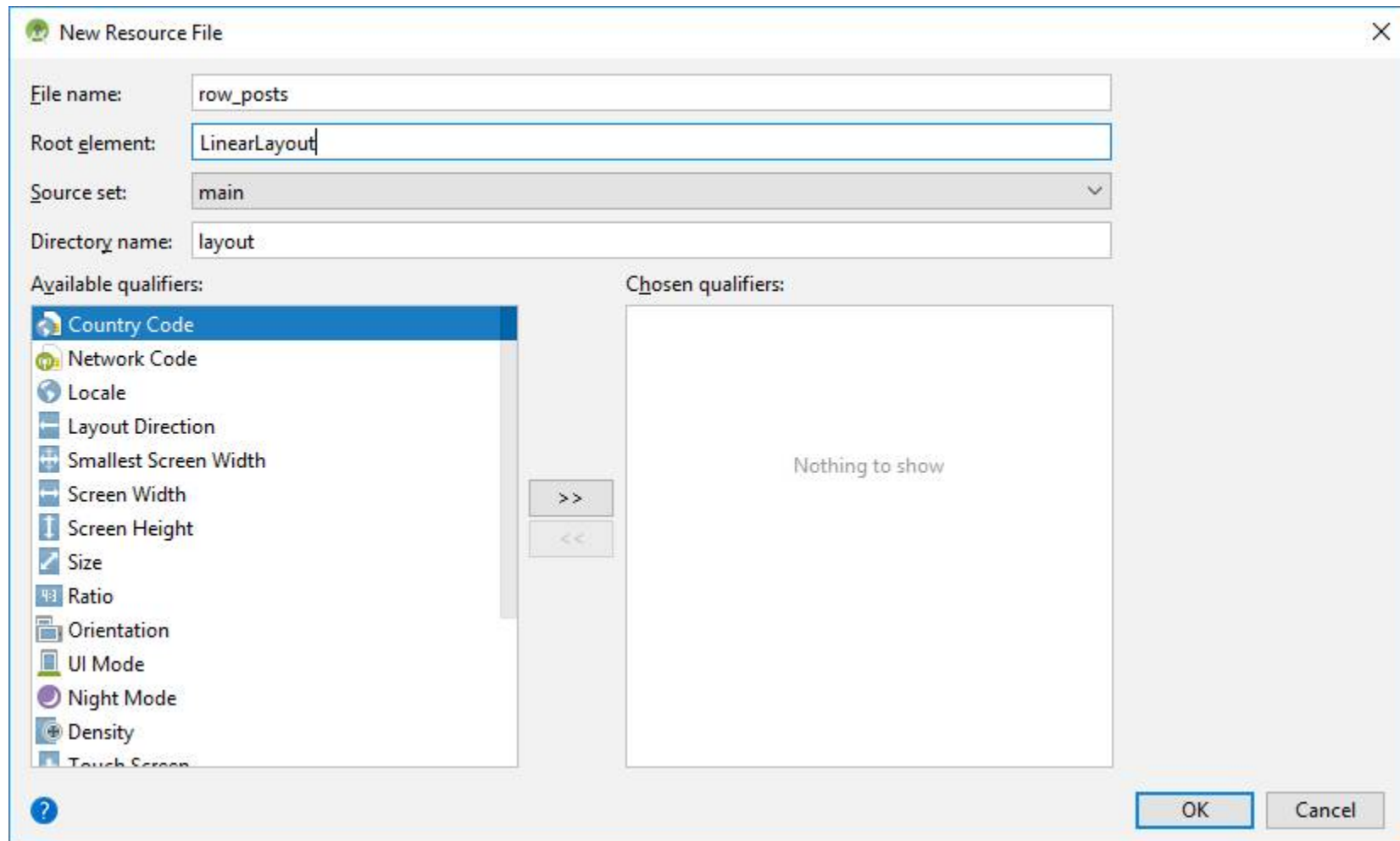
Layout : membuat listview



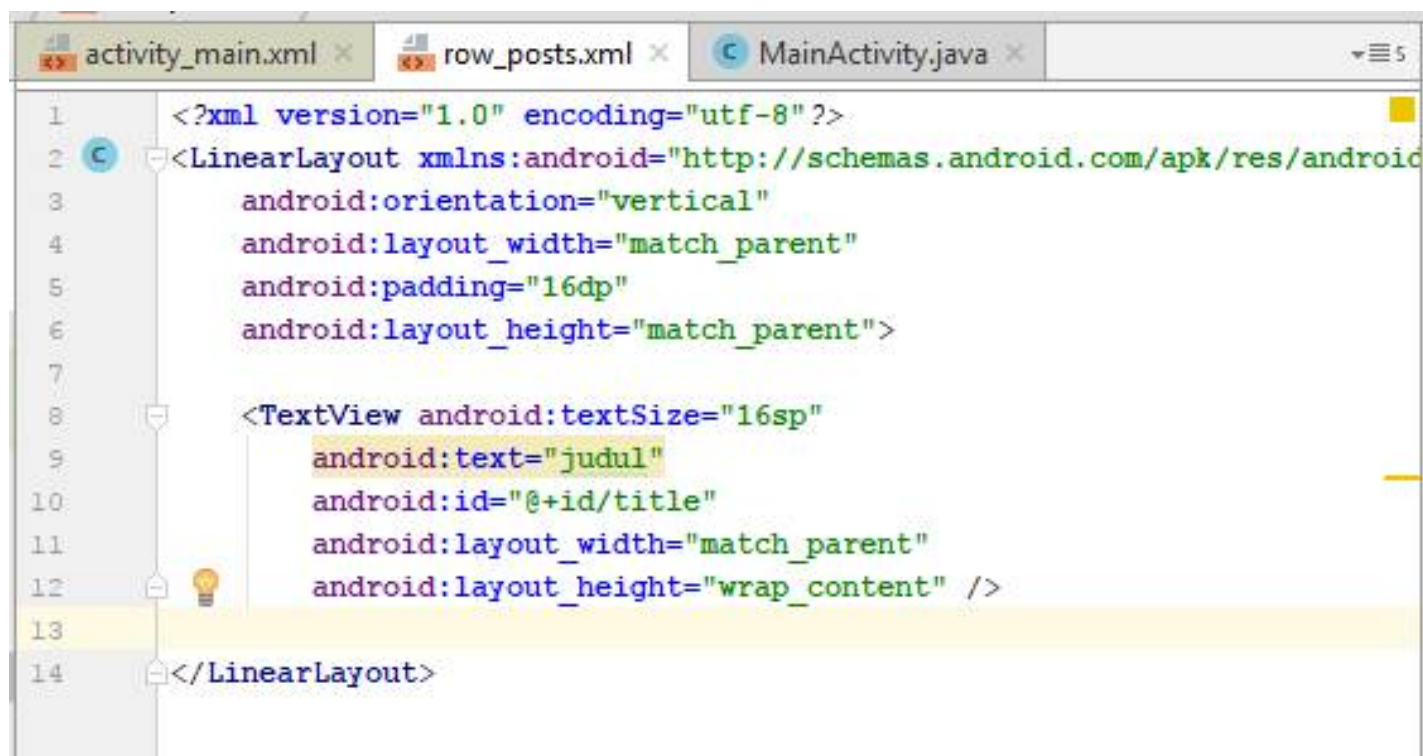
Layout : row_posts



Layout : row_posts



Android Project



```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:orientation="vertical"
4      android:layout_width="match_parent"
5      android:padding="16dp"
6      android:layout_height="match_parent">
7
8      <TextView android:textSize="16sp"
9          android:text="judul"
10         android:id="@+id/title"
11         android:layout_width="match_parent"
12         android:layout_height="wrap_content" />
13
14  </LinearLayout>
```

Coding

```
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

RECENT POSTS

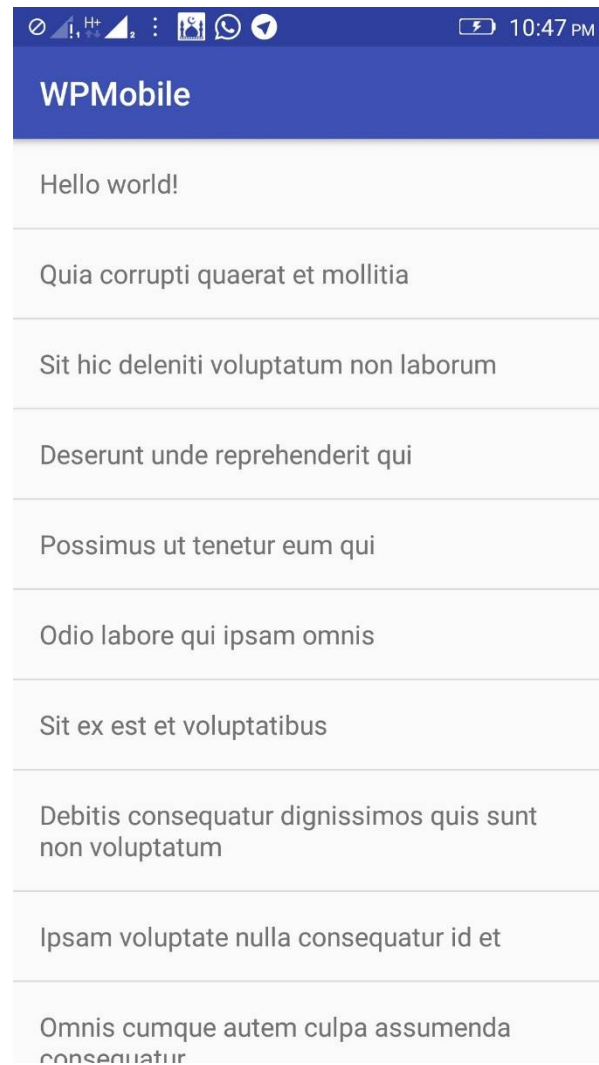
Hello world!

Quia corrupti quaerat et mollitia

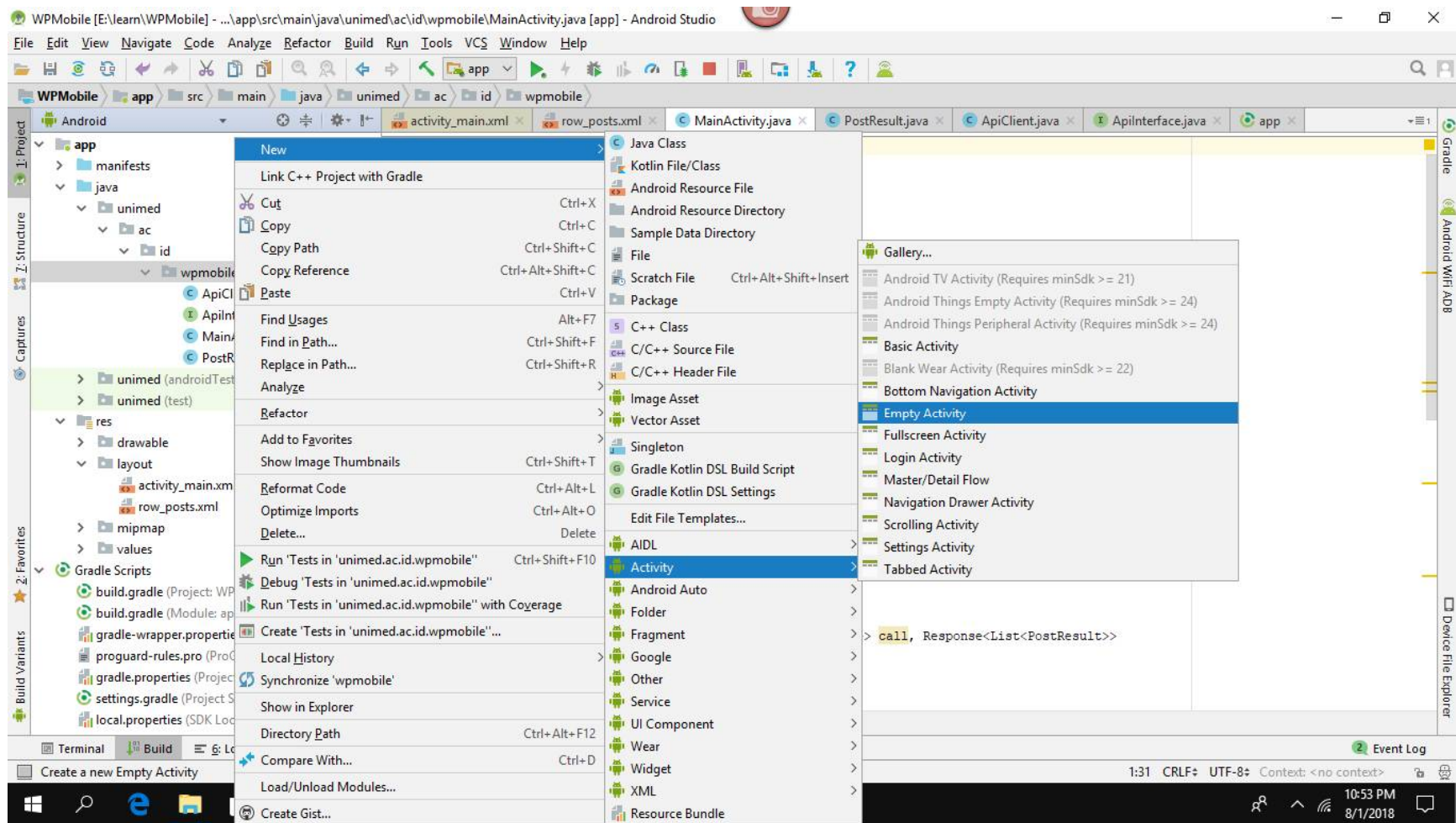
Sit hic deleniti voluptatum non laborum

Deserunt unde reprehenderit qui

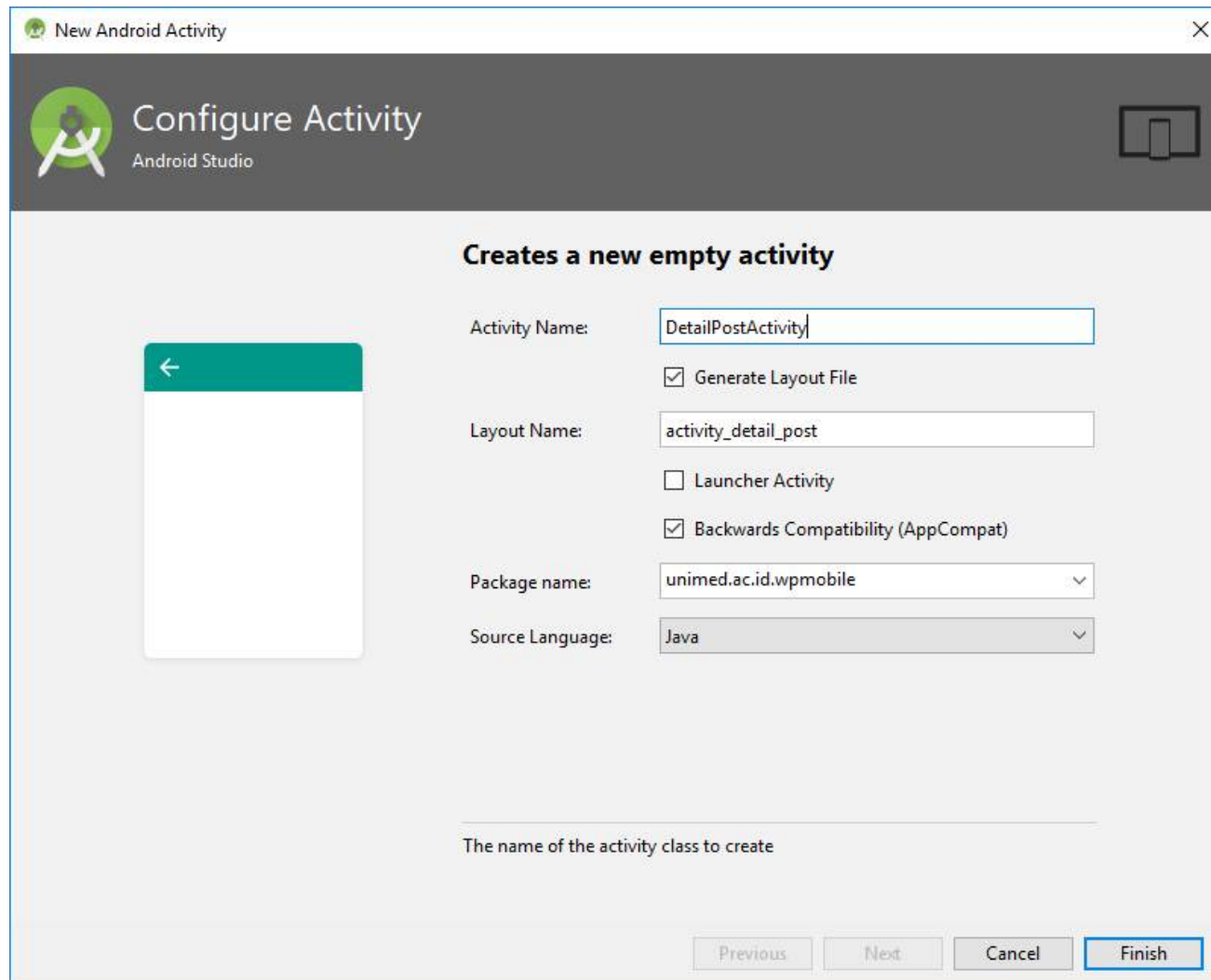
Possimus ut tenetur eum qui



Buat Activity baru



Buat Activity baru



New Android Activity

Configure Activity
Android Studio

Creates a new empty activity

Activity Name:

☒ Generate Layout File

Layout Name:

☐ Launcher Activity

☒ Backwards Compatibility (AppCompat)

Package name:

Source Language:

The name of the activity class to create

Previous Next Cancel Finish

Layout

```
<?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

```
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);

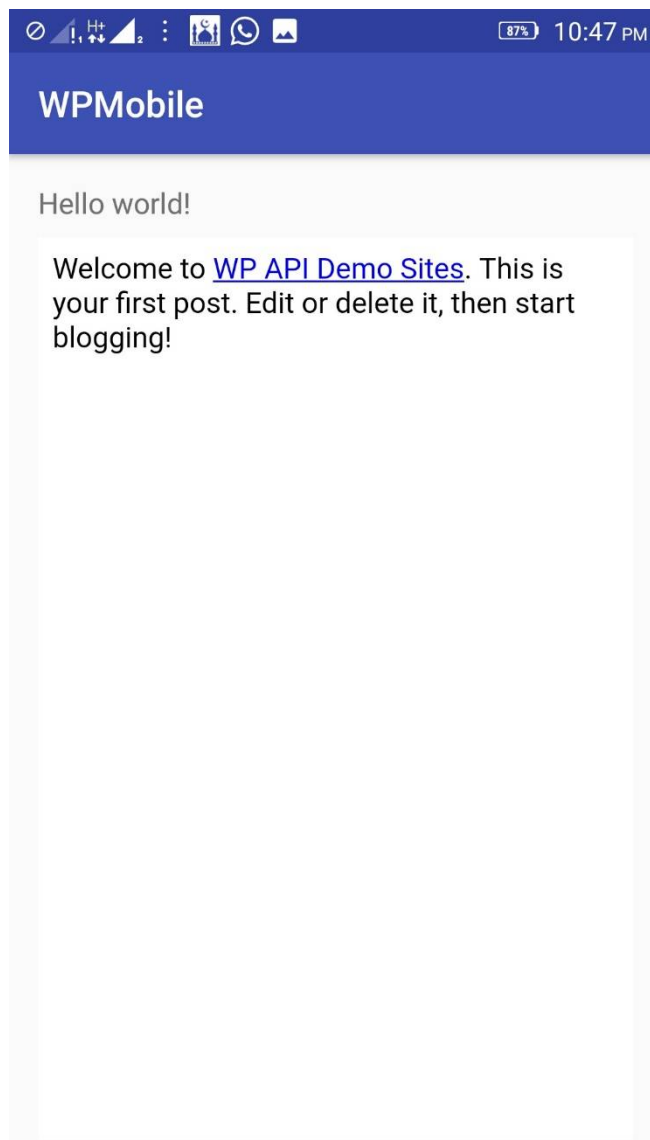
        // Tiga baris di bawah ini agar laman yang dimuat dapat
        // melakukan zoom.
        webView.getSettings().setSupportZoom(true);
        webView.getSettings().setBuiltInZoomControls(true);
        webView.getSettings().setDisplayZoomControls(false);
        // Baris di bawah untuk menambahkan scrollbar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

MainActivity : Click Item Listview

```
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

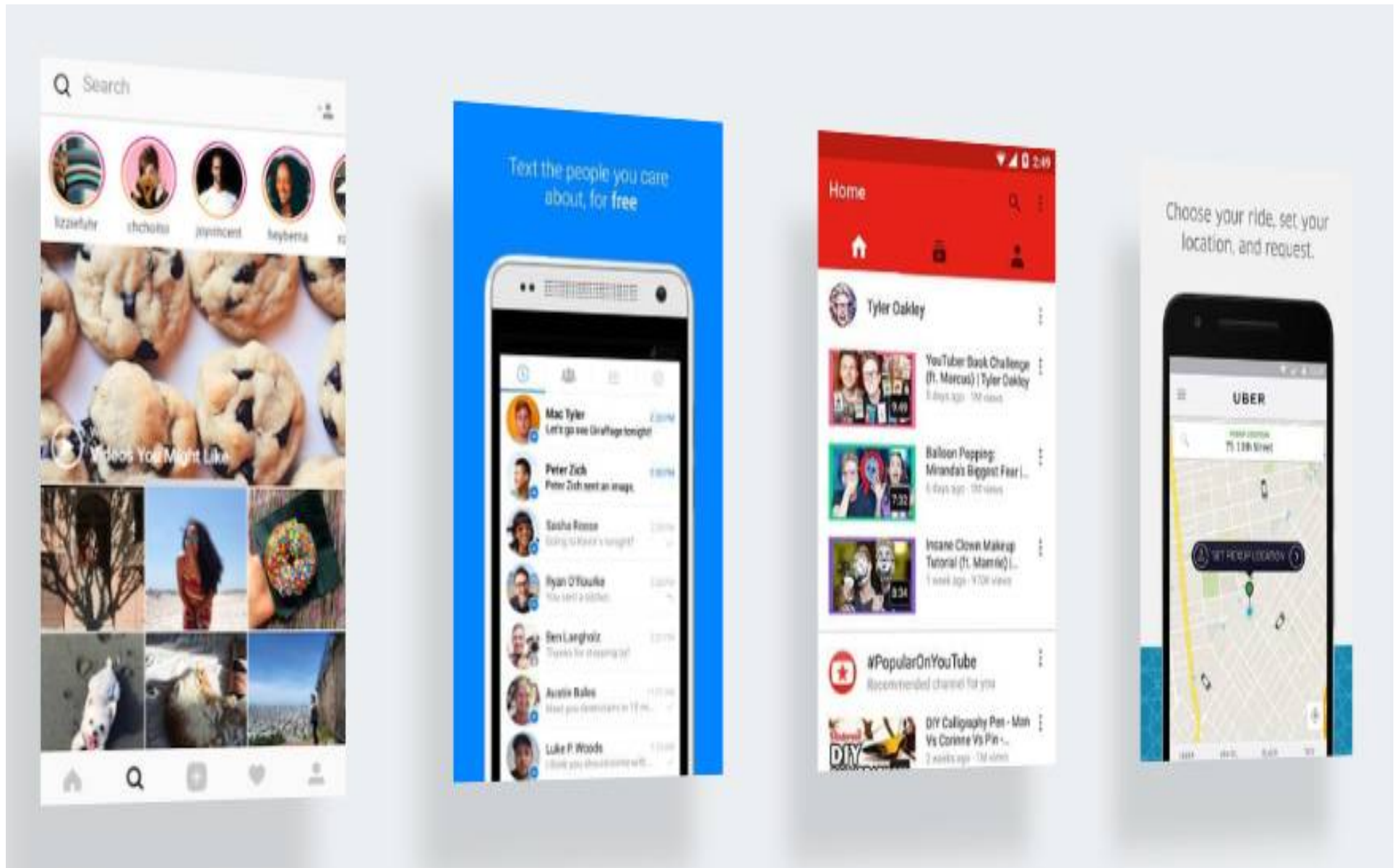


Back Button di DetailPostActivity

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

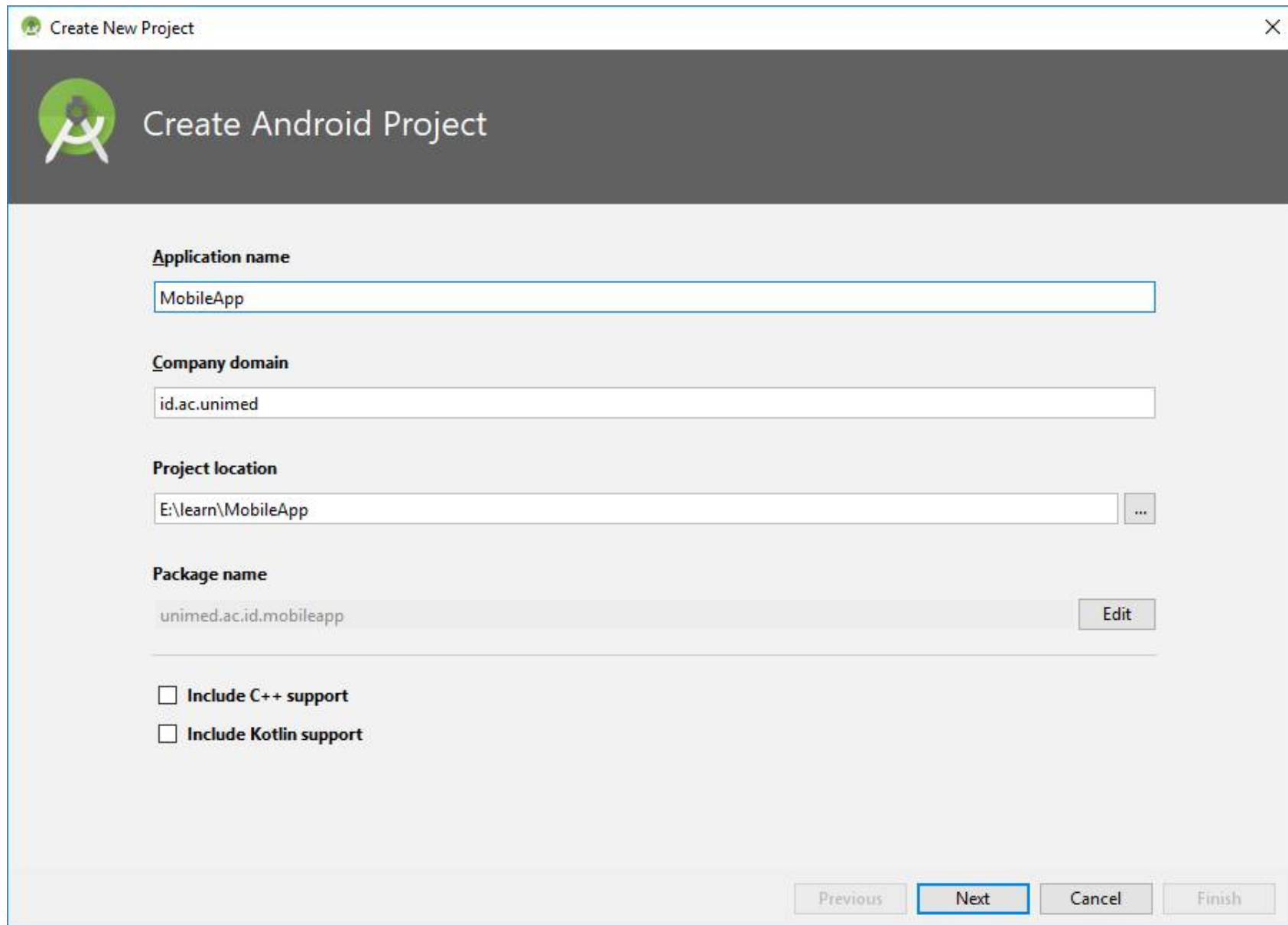
@Override
public boolean onSupportNavigateUp() {
    onBackPressed();
    return true;
}
```





Drawer And Fragment

Project Baru



Create New Project

Create Android Project

Application name
MobileApp

Company domain
id.ac.unimed

Project location
E:\learn\MobileApp

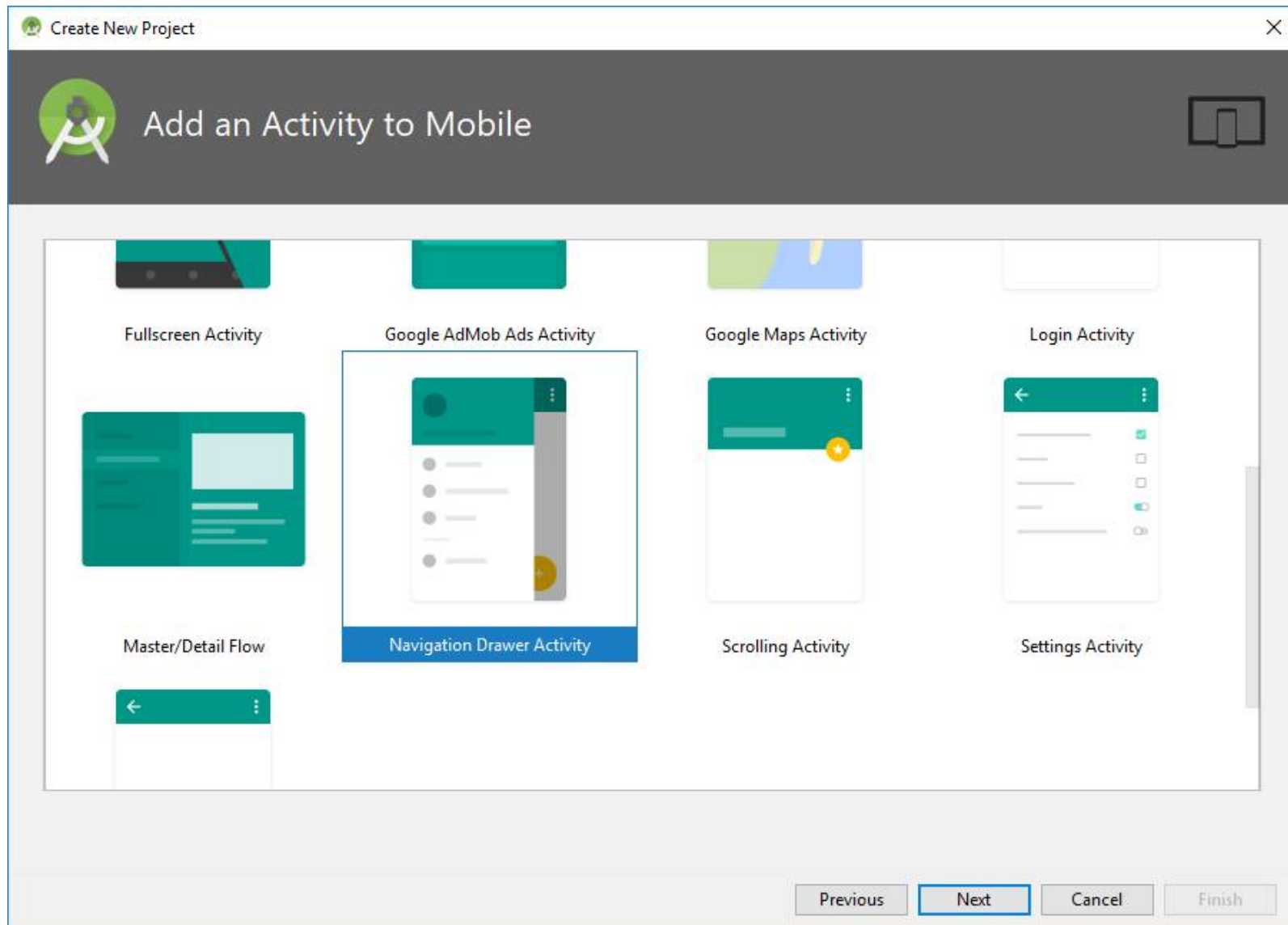
Package name
unimed.ac.id.mobileapp Edit

☐ Include C++ support

☐ Include Kotlin support

Previous Next Cancel Finish

Project Baru



Mengatur tempat untuk fragment

```
MainActivity.java x content_main.xml x app_bar_main.xml x
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>
```

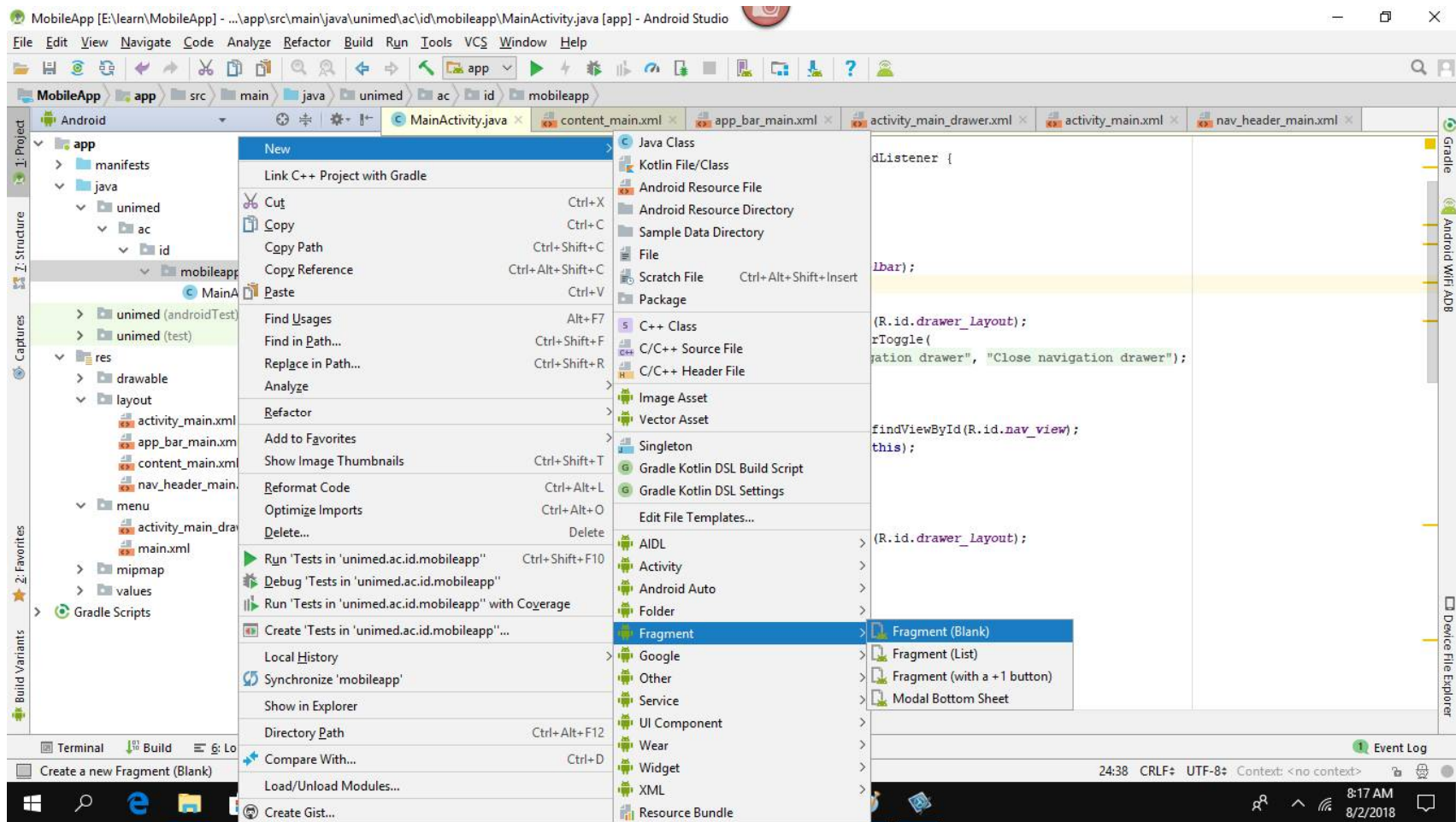
```
MainActivity.java x content_main.xml x app_bar_main.xml x
5 android:layout_width="match_parent"
6 android:layout_height="match_parent"
7 tools:context=".MainActivity">
8
9 <android.support.design.widget.AppBarLayout
10     android:layout_width="match_parent"
11     android:layout_height="wrap_content"
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

```
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

New Android Component

 **Configure Component**
Android Studio

Creates a blank fragment that is compatible back to API level 4.



Fragment Name:

☒ Create layout XML?

Fragment Layout Name:

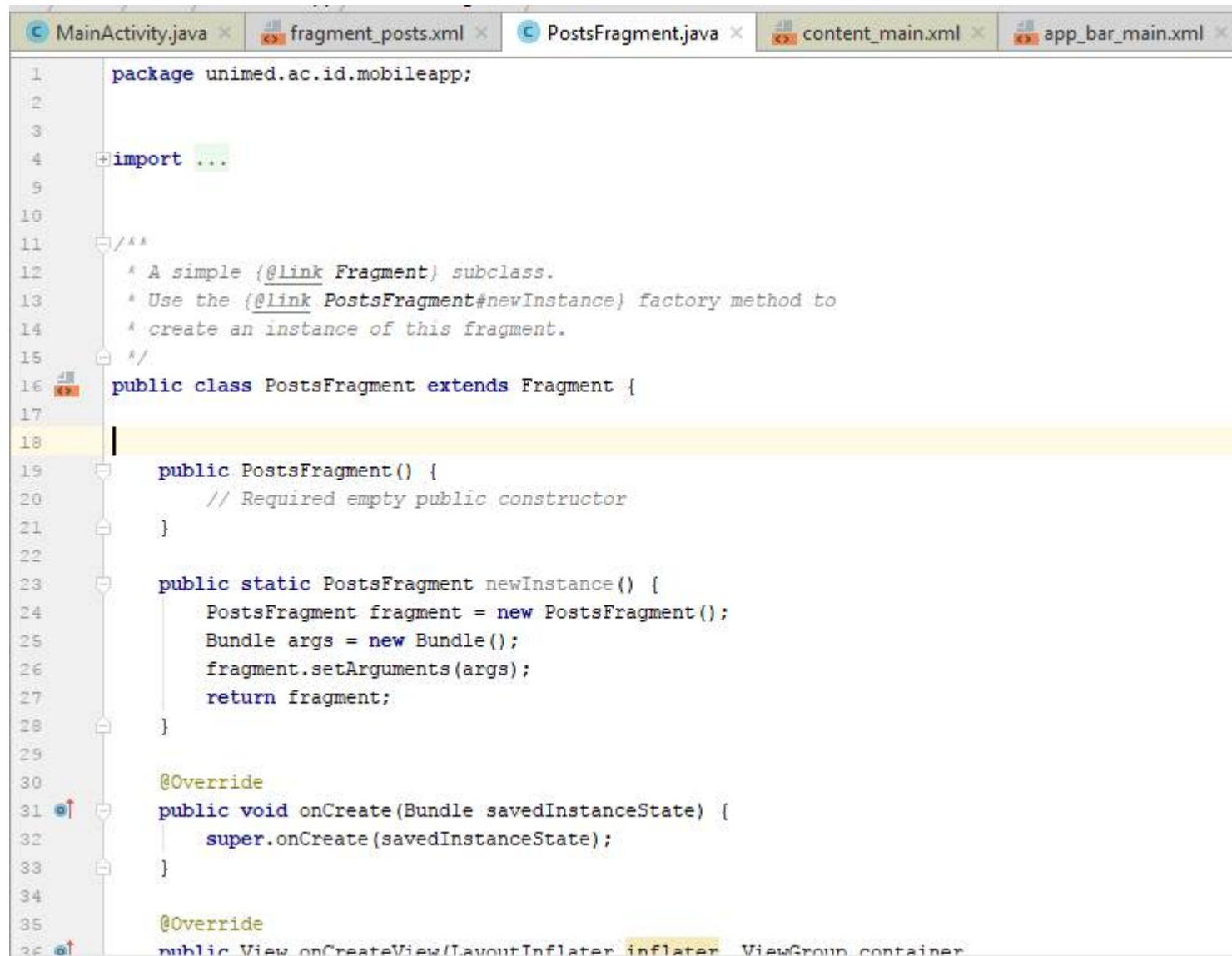
☒ Include fragment factory methods?

☐ Include interface callbacks?

Source Language:

The name of the fragment class to create

Edit kode fragment



```
1 package unimed.ac.id.mobileapp;
2
3
4 import ...
5
6
7
8
9
10
11 /**
12  * A simple {@link Fragment} subclass.
13  * Use the {@link PostsFragment#newInstance} factory method to
14  * create an instance of this fragment.
15  */
16 public class PostsFragment extends Fragment {
17
18
19     public PostsFragment() {
20         // Required empty public constructor
21     }
22
23     public static PostsFragment newInstance() {
24         PostsFragment fragment = new PostsFragment();
25         Bundle args = new Bundle();
26         fragment.setArguments(args);
27         return fragment;
28     }
29
30     @Override
31     public void onCreate(Bundle savedInstanceState) {
32         super.onCreate(savedInstanceState);
33     }
34
35     @Override
36     public View onCreateView(LayoutInflater inflater, ViewGroup container,
```

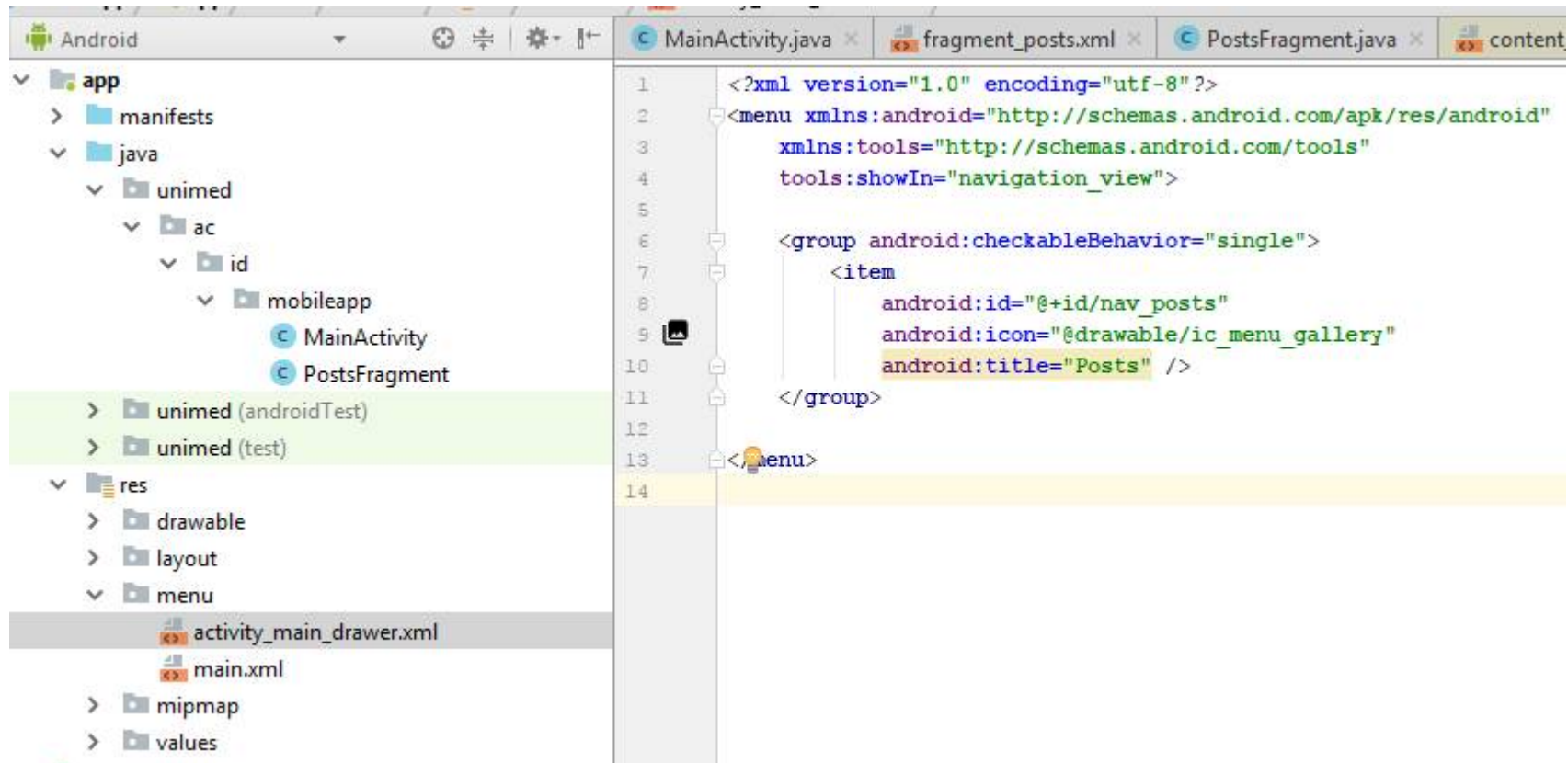
Edit MainActivity

```
MainActivity.java x fragment_posts.xml x PostsFragment.java x content_main.xml x app_bar_ma
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_camera) {
78         fragment = PostsFragment.newInstance();
79     } else if (id == R.id.nav_gallery) {
80
81     } else if (id == R.id.nav_slideshow) {
82
83     } else if (id == R.id.nav_manage) {
84
85     } else if (id == R.id.nav_share) {
86
87     } else if (id == R.id.nav_send) {
88
89     }
90
91     // Insert the fragment by replacing any existing fragment
92     FragmentManager fragmentManager = getSupportFragmentManager();
93     fragmentManager.beginTransaction().replace(R.id.flContent, fragment).commit();
94
95     DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
96     drawer.closeDrawer(GravityCompat.START);
97     return true;

```



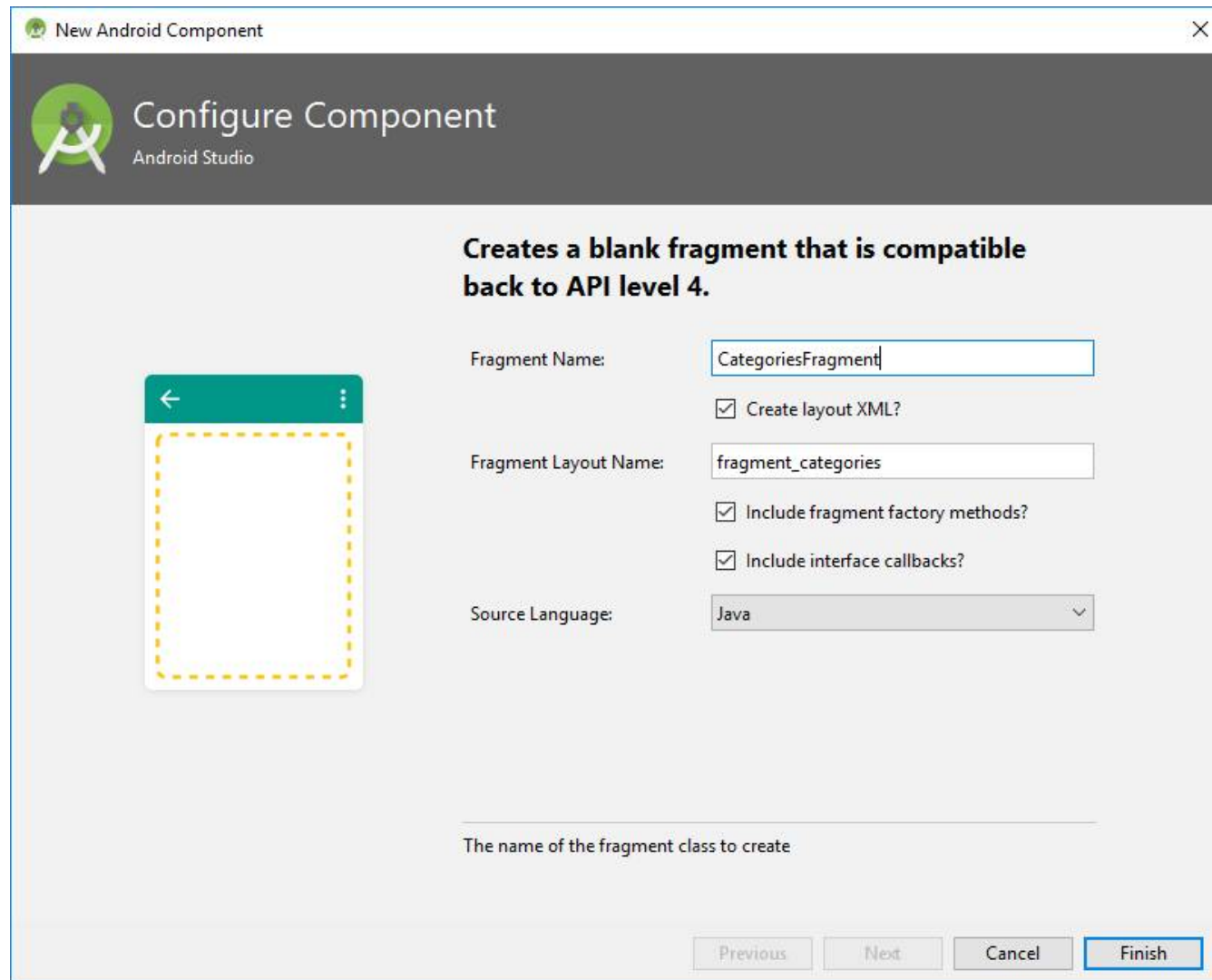
Edit Menu



Edit MainActivity

```
MainActivity.java x fragment_posts.xml x PostsFragment.java x content_main.xml x app_bar_ma
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 }
```

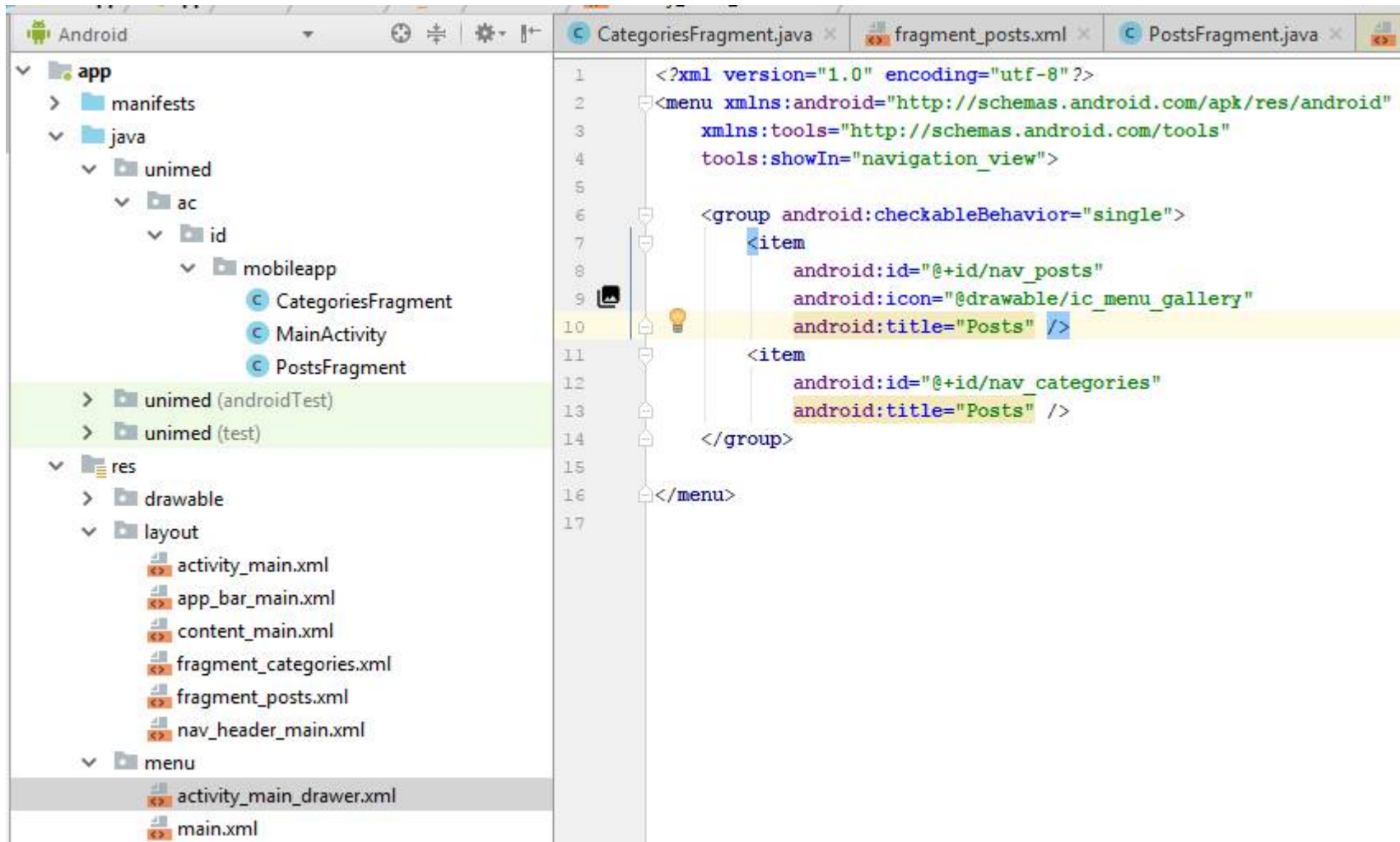
Menambah Fragment




Edit CategoriesFragment.java

```
20 public class CategoriesFragment extends Fragment {
21
22
23     private OnFragmentInteractionListener mListener;
24
25     public CategoriesFragment() {
26         // Required empty public constructor
27     }
28
29     // TODO: Rename and change types and number of parameters
30     public static CategoriesFragment newInstance() {
31         CategoriesFragment fragment = new CategoriesFragment();
32         Bundle args = new Bundle();
33
34         fragment.setArguments(args);
35         return fragment;
36     }
37
38     @Override
39     public void onCreate(Bundle savedInstanceState) {
40         super.onCreate(savedInstanceState);
41     }
```

Edit Menu



Edit MainActivity



```
@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();
    }
}
```