**SmartIntern Long Term Virtual Internship**

An Internship Report submitted in partial fulfillment of the requirements for the award of degree of

**BACHELOR OF TECHNOLOGY**

## In

**MECH – MECHANICAL ENGINEERING**

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**Department Of Mechanical Engineering**

**SRI SIVANI COLLEGE OF ENGINEERING**

**Approved By AICTE & Affiliated to JNTUGV**

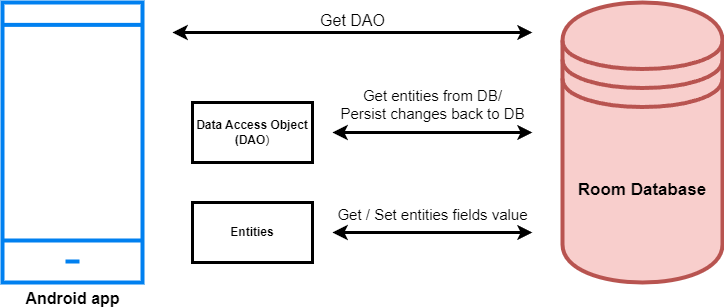
**Chilakapalem Jn., Srikakulam 532402**

### Owl-M: A Material Design Study App

**Project Description:**

A project that demonstrates the use of Android Jetpack Compose to build a UI for a Owl-M: a material design study  app. Owl-M app is a sample project built using the Android Compose UI toolkit. A Compose implementation of the Owl Material study.

**Architecture**



**Learning Outcomes :**

By end of this project:

* You’ll be able to work on Android studio and build an app.
* You’ll be able to integrate the database accordingly.

**Project Workflow:**

* Users register into the application.
* After registration , user logins into the application.
* User enters into the main page
* User can view the subject themes on selecting theme he can read about it.

**Note:**

To complete the project you need to finish up the tasks listed below:

**Tasks:**

1.Required initial steps

2.Creating a new project.

3.Adding required dependencies.

4.Creating the database classes.

5.Building application UI and connecting to database.

6.Using AndroidManifest.xml

7.Running the application.

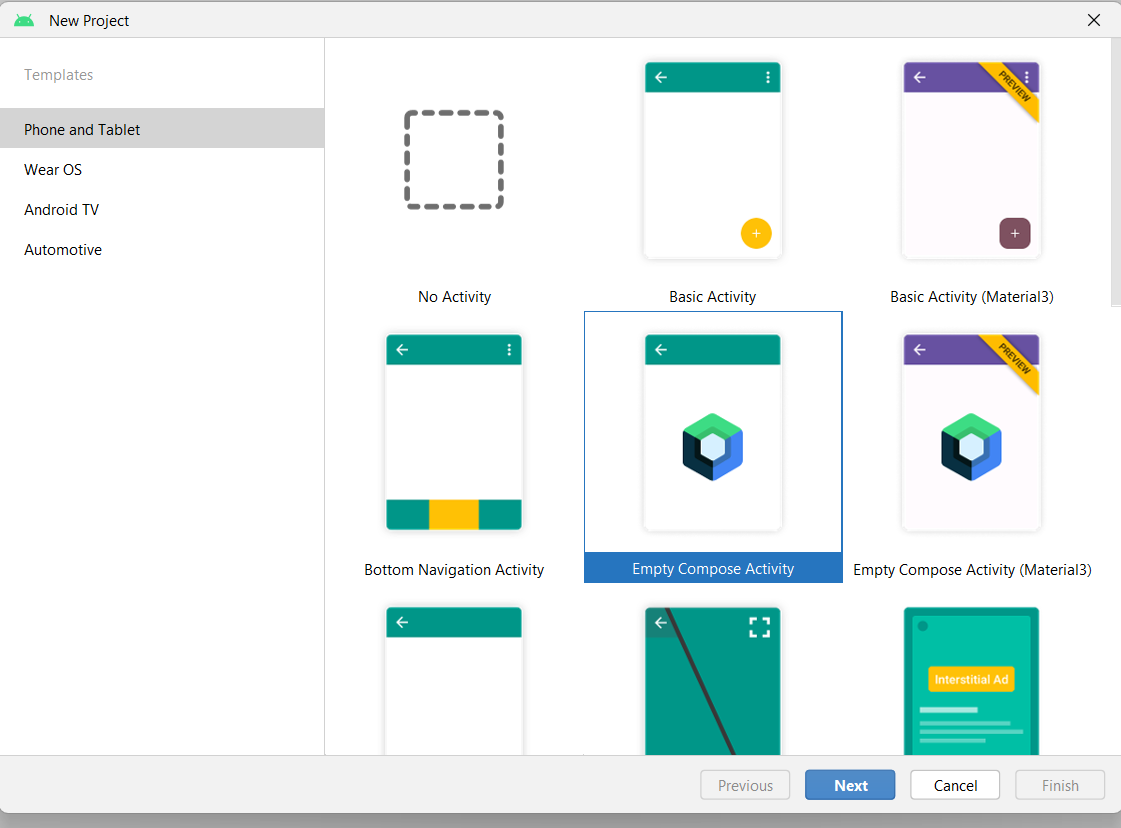
### Required Initial Steps

This milestone explains about Required Initial Steps

<https://developer.android.com/studio/install>

### Creating A New Project.

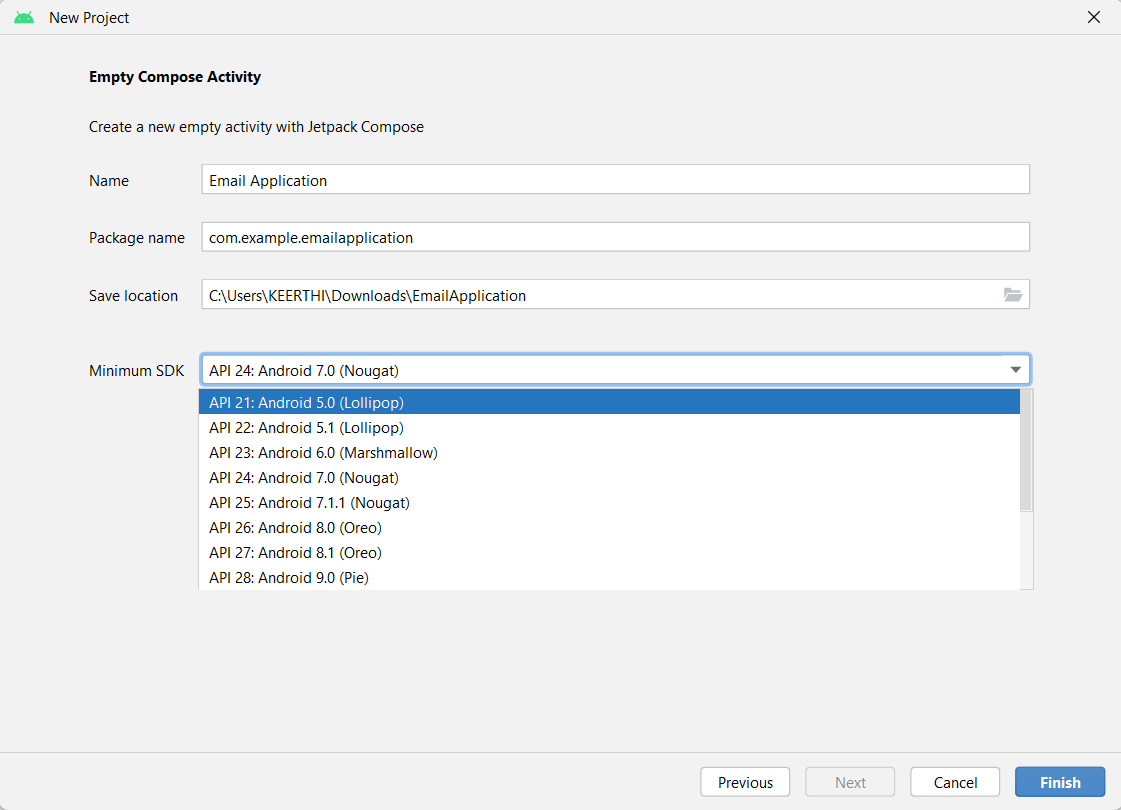
Step 1 : Android studio > File > New > New Project > Empty Compose Activity

Step 2 : Click on **Next** button.

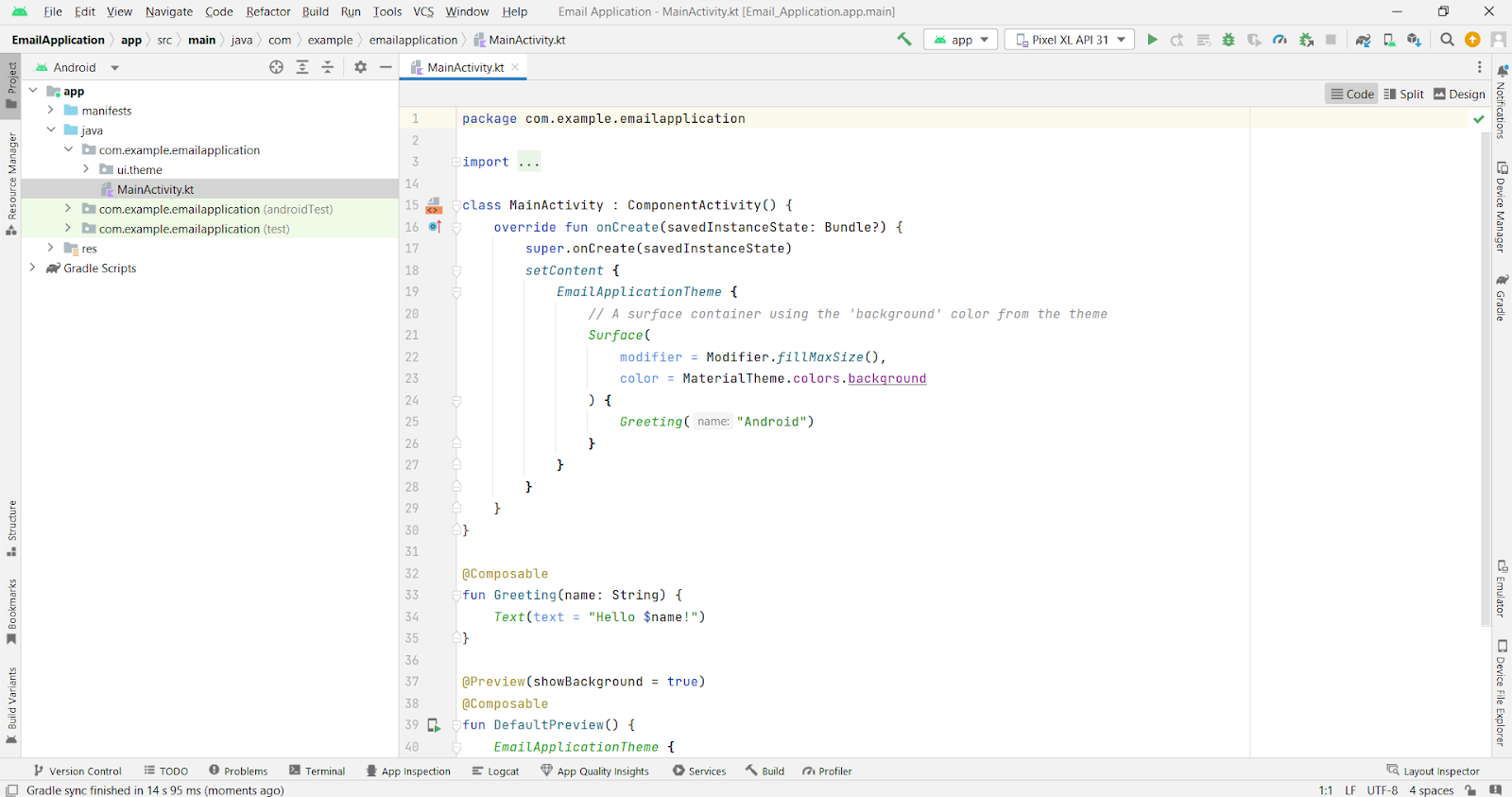
Step 3 : Give name to the new project.

Step 4 : Give the Minimum SDK value

Step 5 : Click Finish



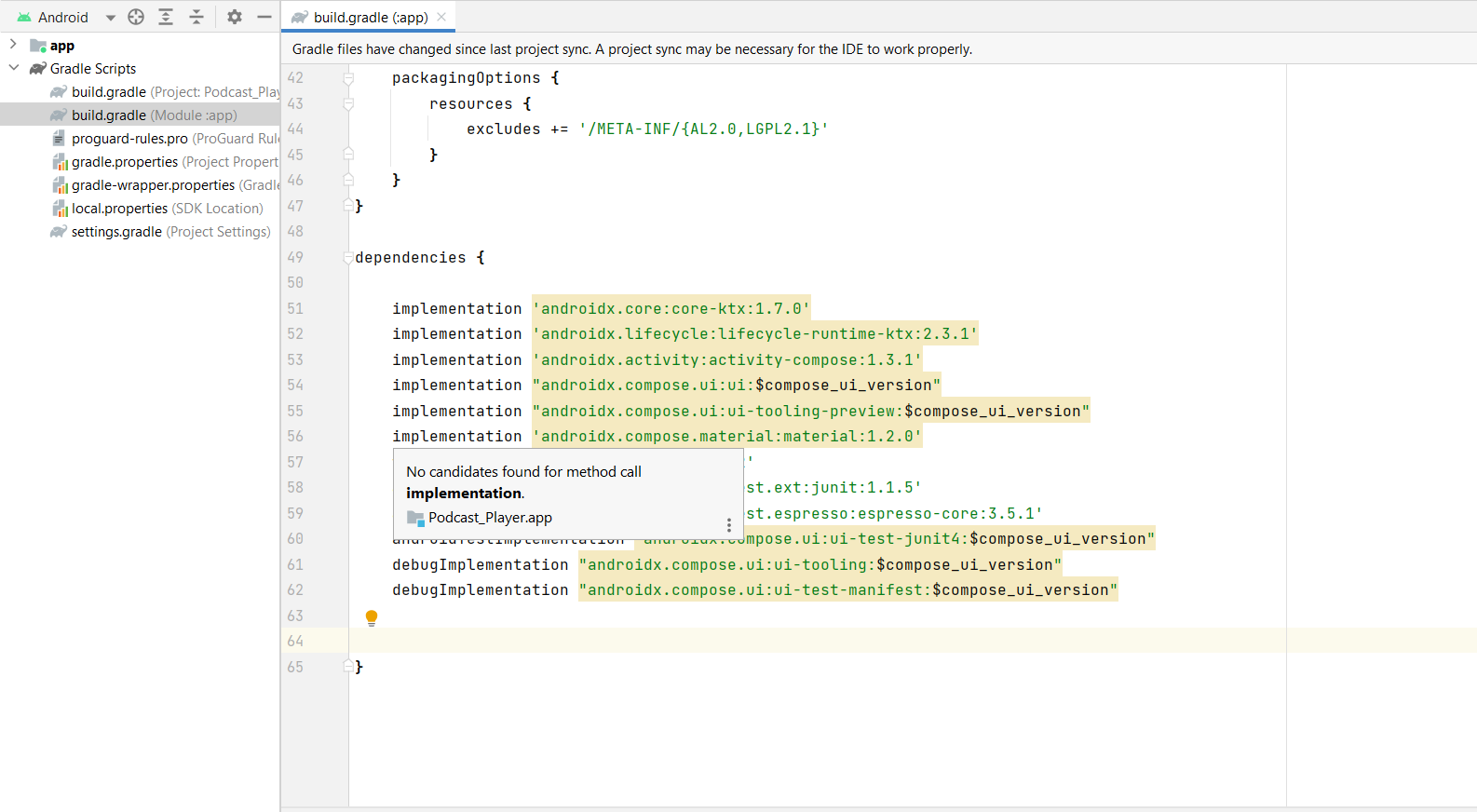
**Main activity file**



### Adding Required Dependencies

**This milestone explains about adding required dependencies.**

### Gradle Scripts > Build.Gradle(Module :App)



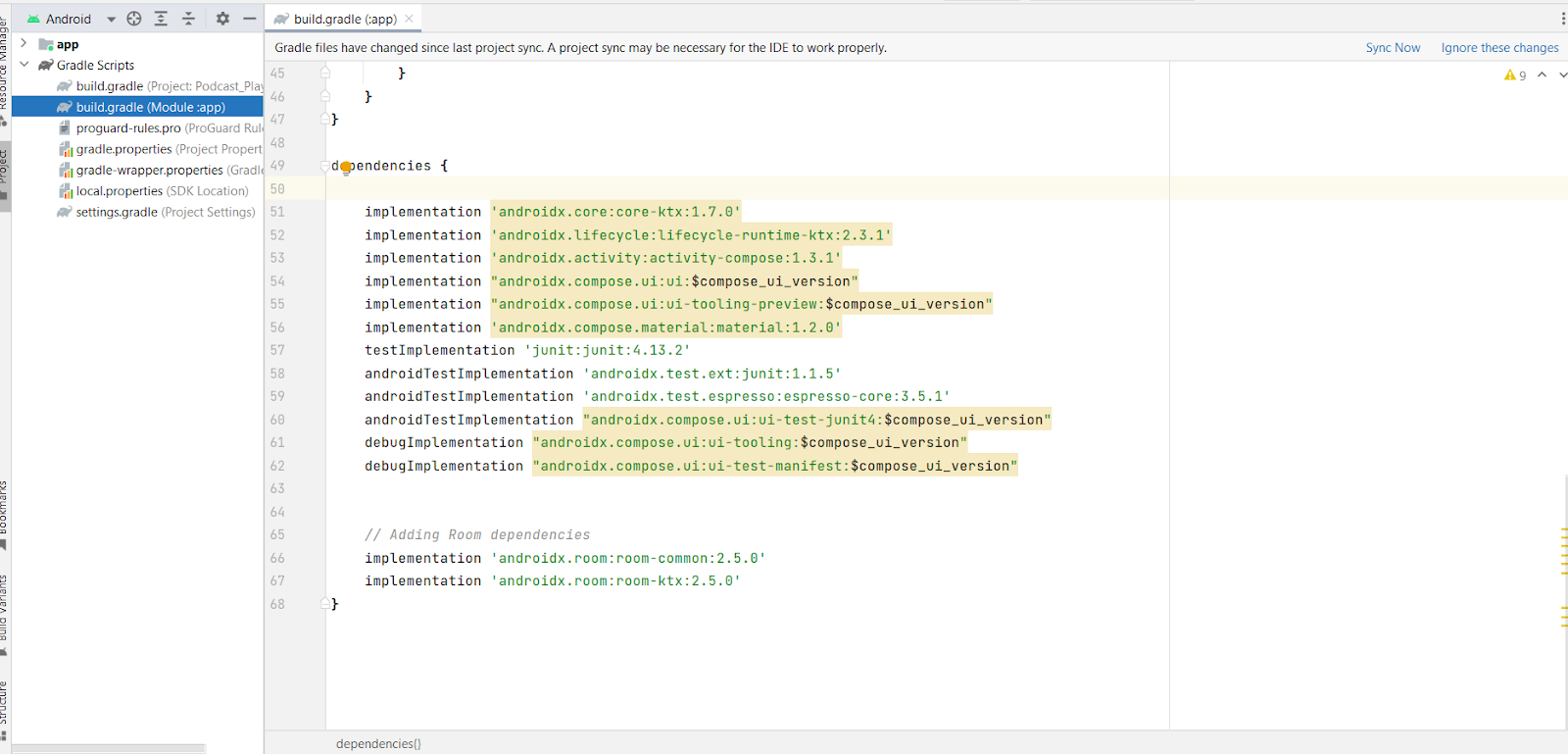
### Adding Room Dependencies

Add the below code in dependencies

*// Adding Room dependencies*

implementation 'androidx.room:room-common:2.5.0'

implementation 'androidx.room:room-ktx:2.5.0'

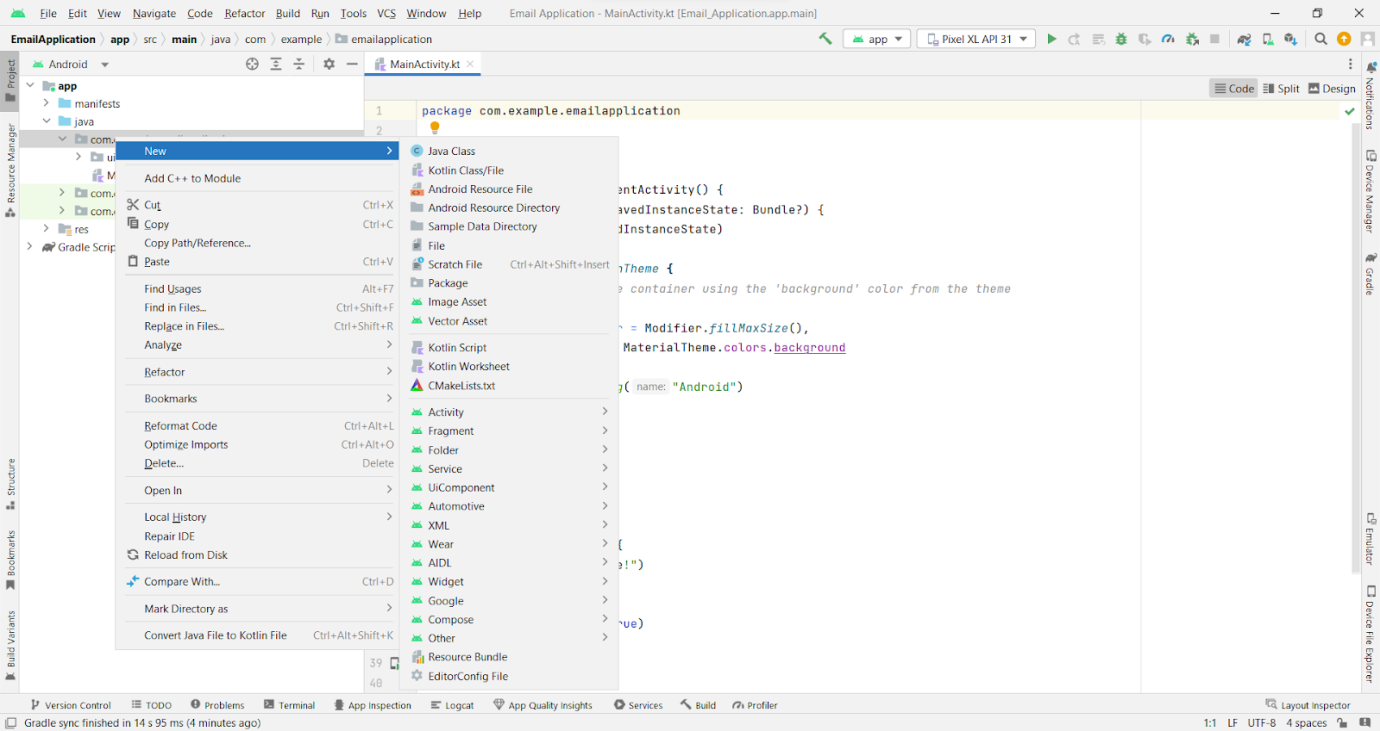


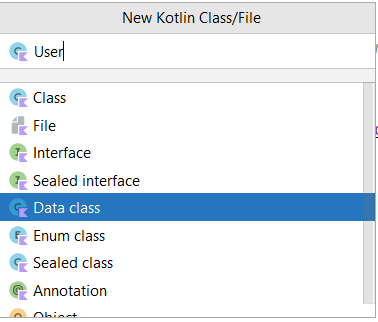
### Creating The Database Classes

**In this project we will be having two databases, one is for user registration and login, and other is for admin to view the details of survey forms.**

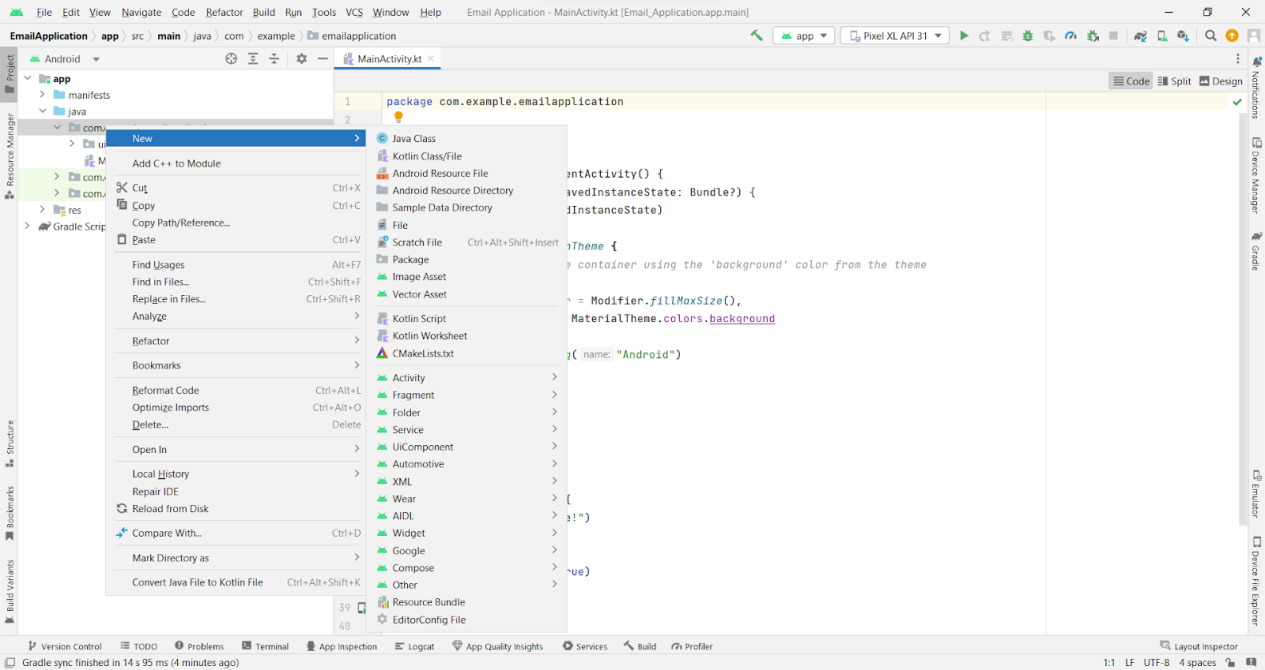
### Database 1 (Create User Data Class)

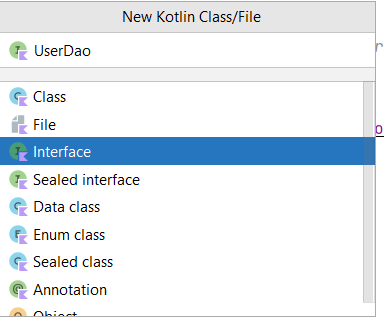
**Create User data class**



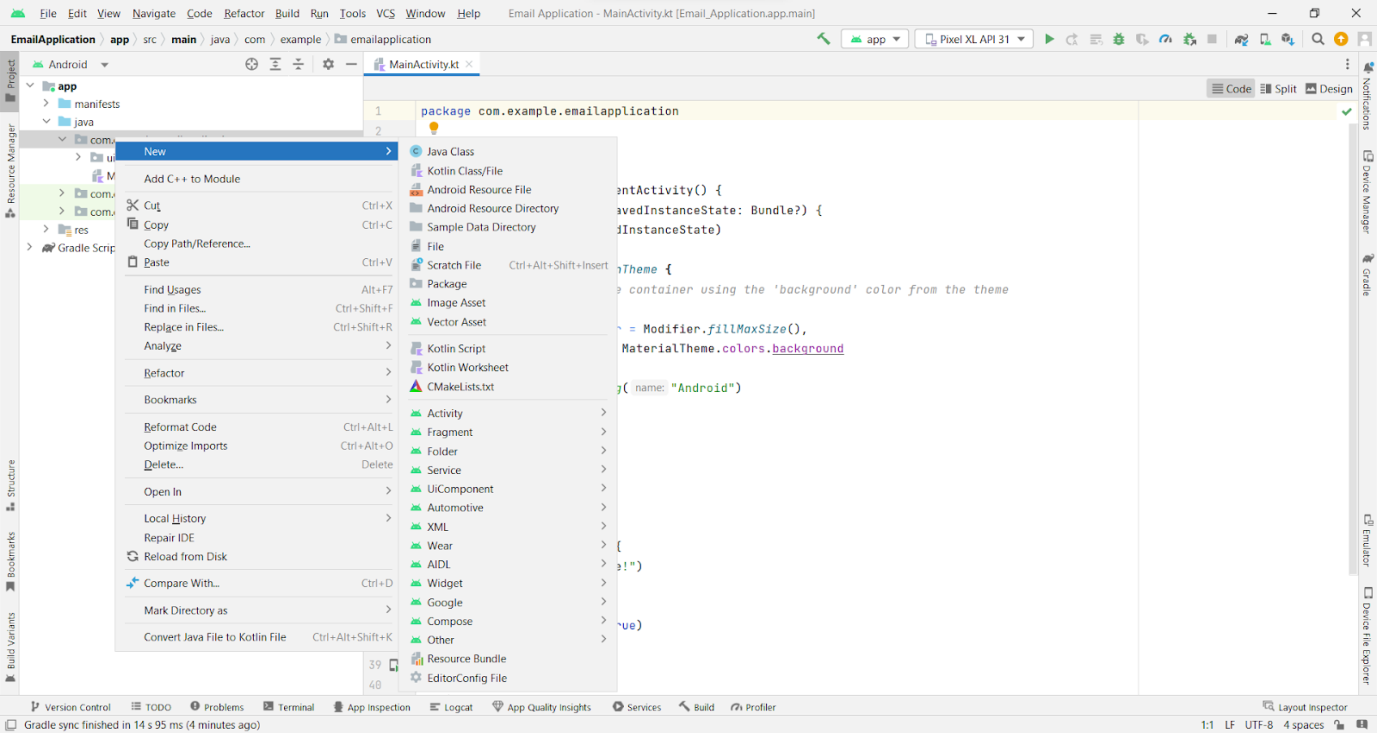


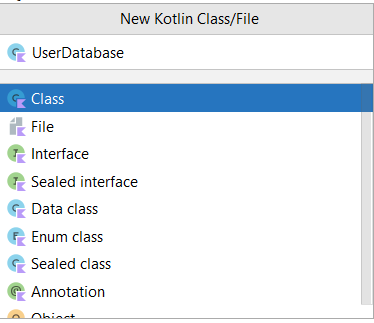
### Create An UserDao Interface



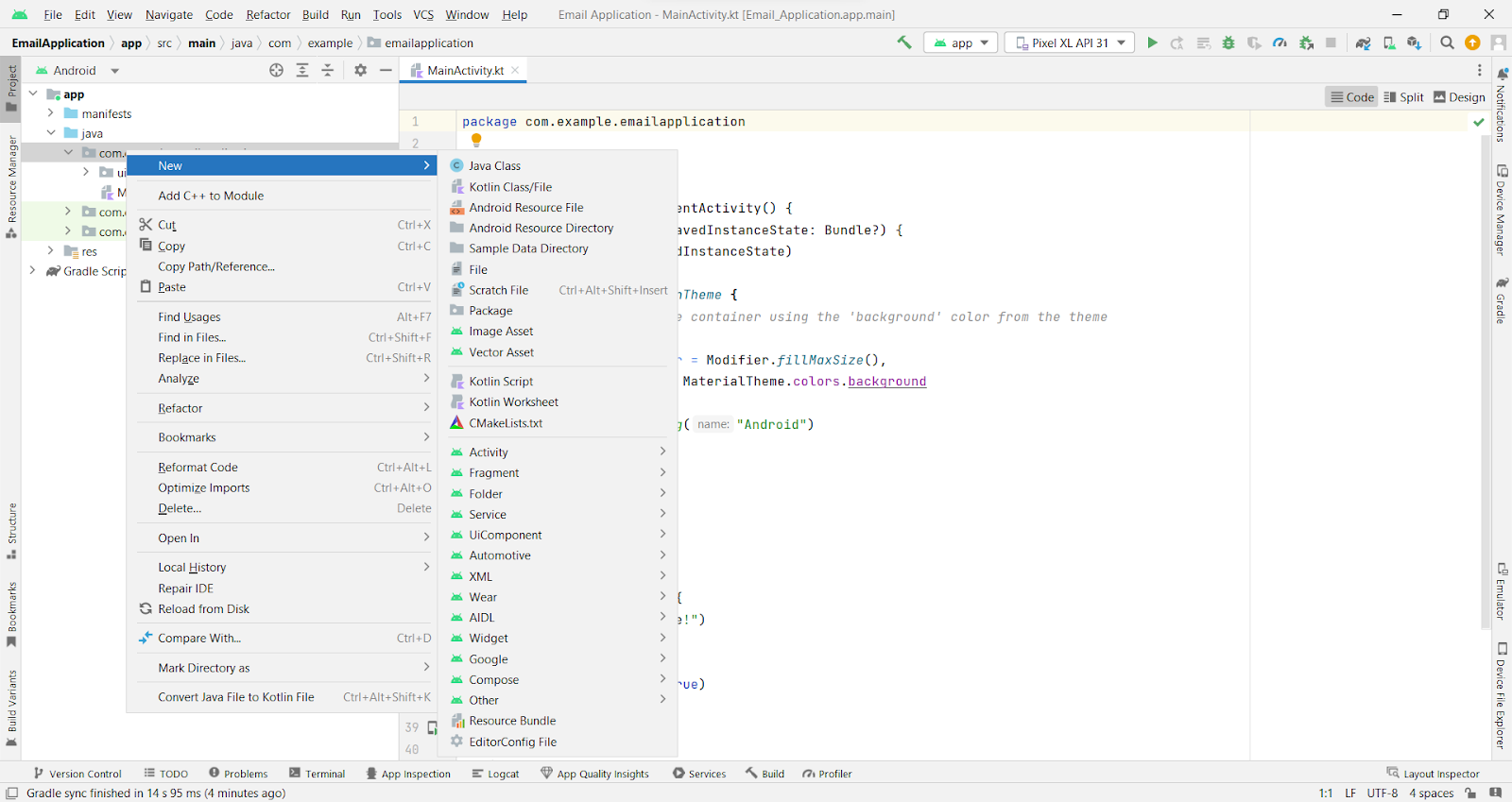


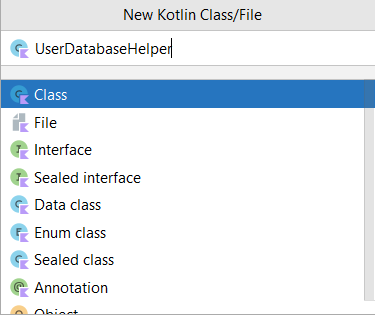
### Create An UserDatabase Class





### Create An UserDatabaseHelper Class

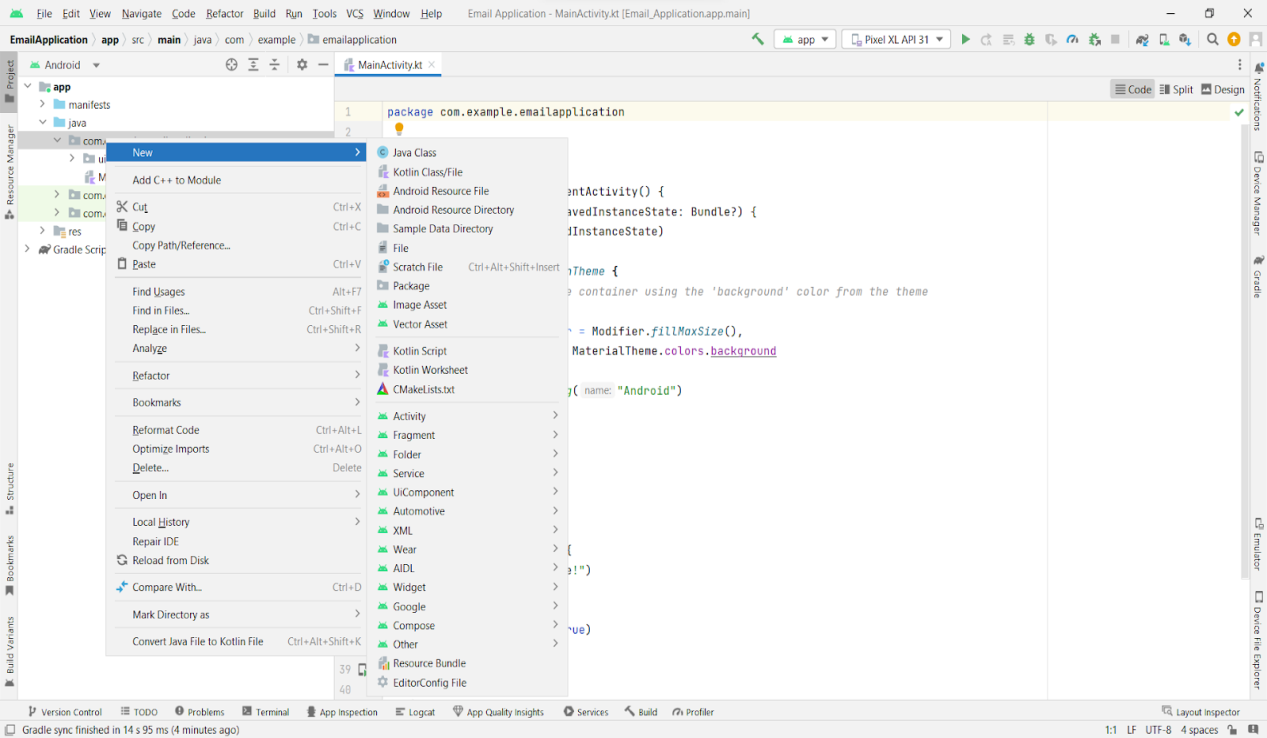


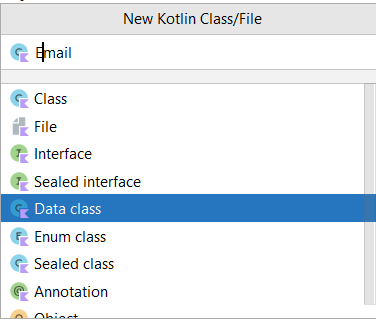


### Database 2

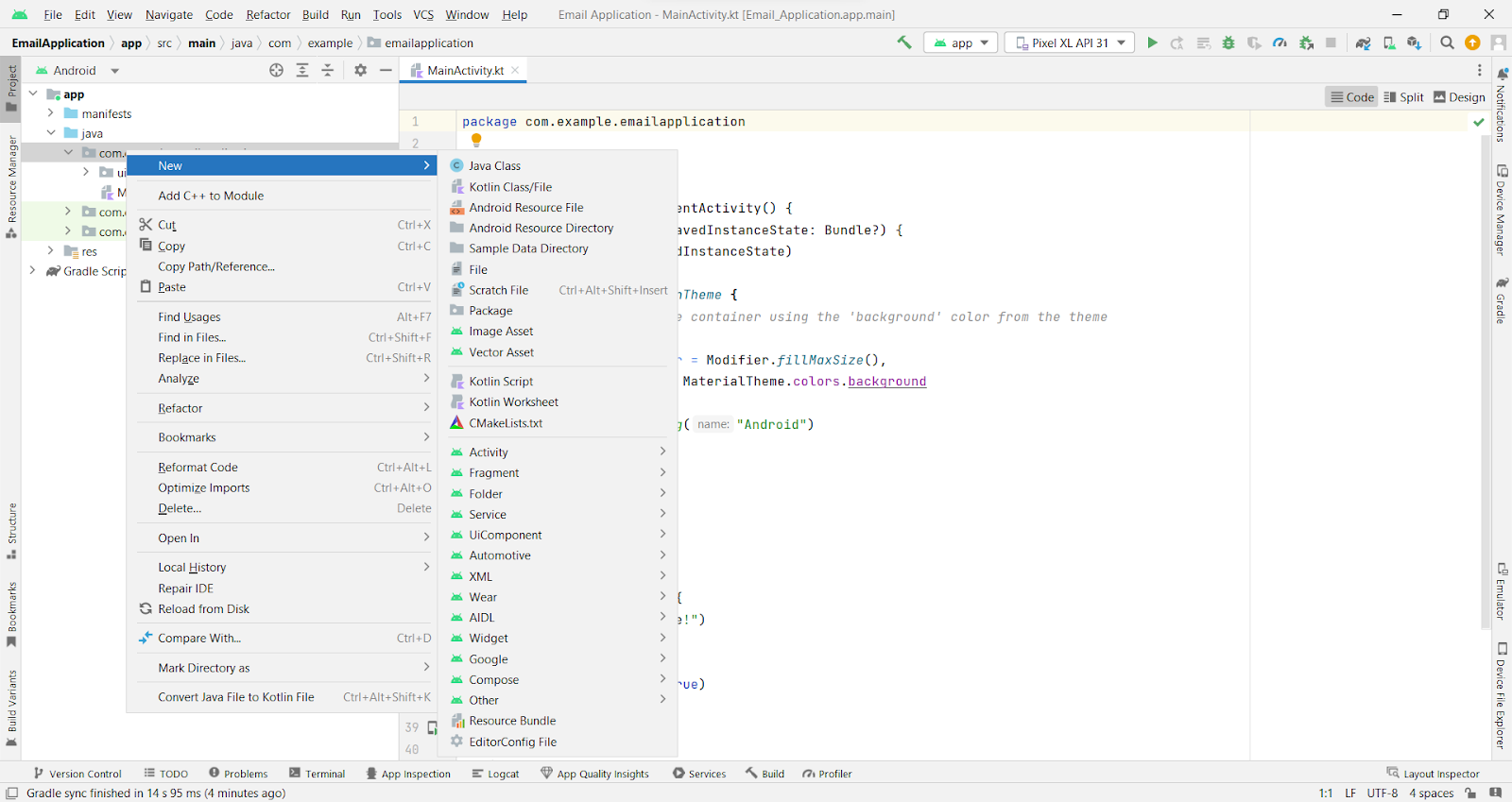
**This milestone explains about Database 2**

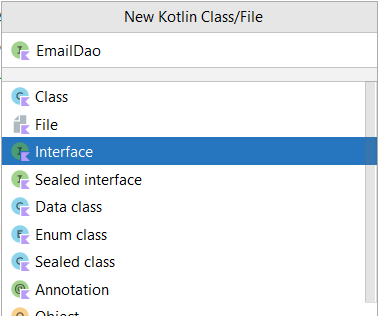
### Create Email Data Class



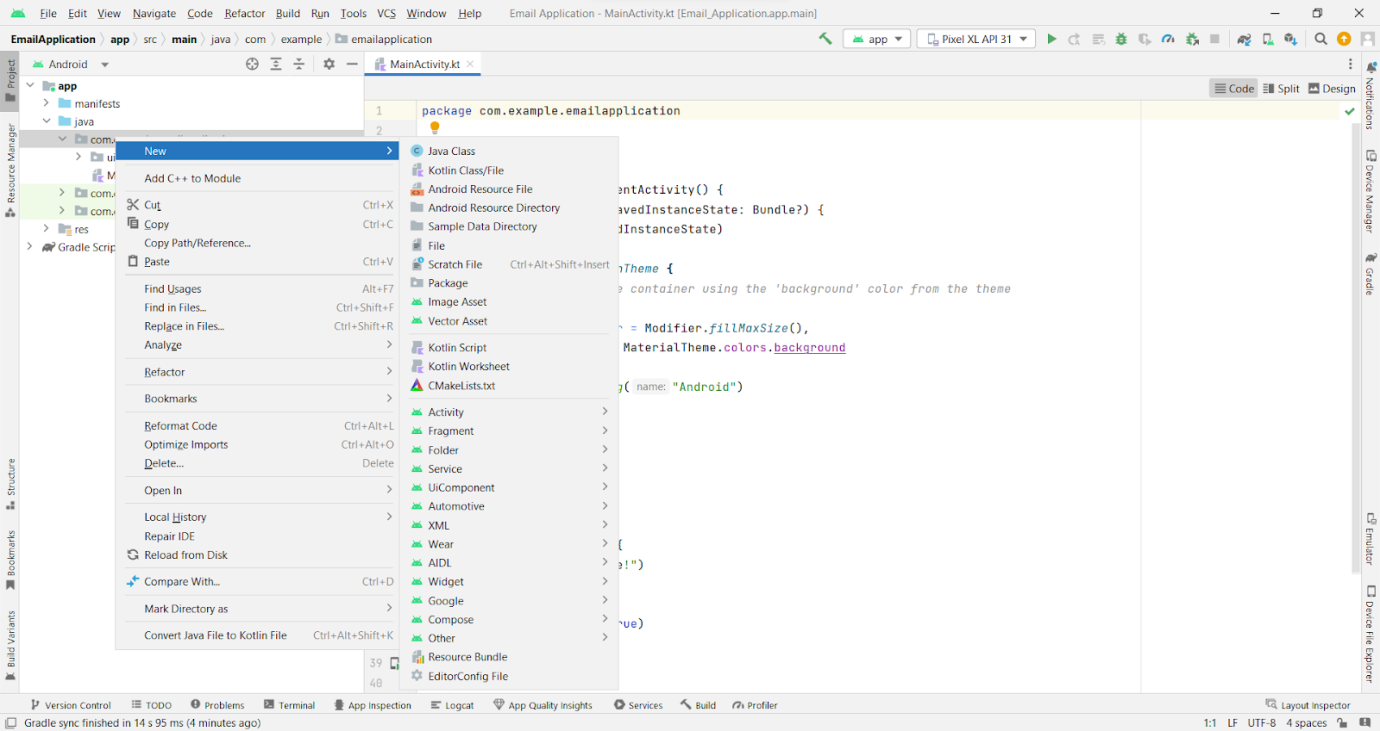


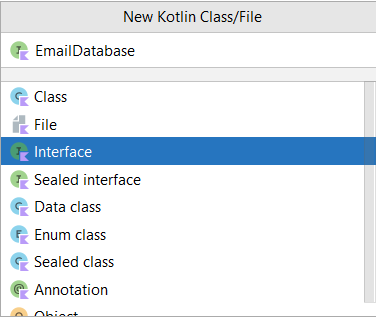
### Create EmailDao Interface



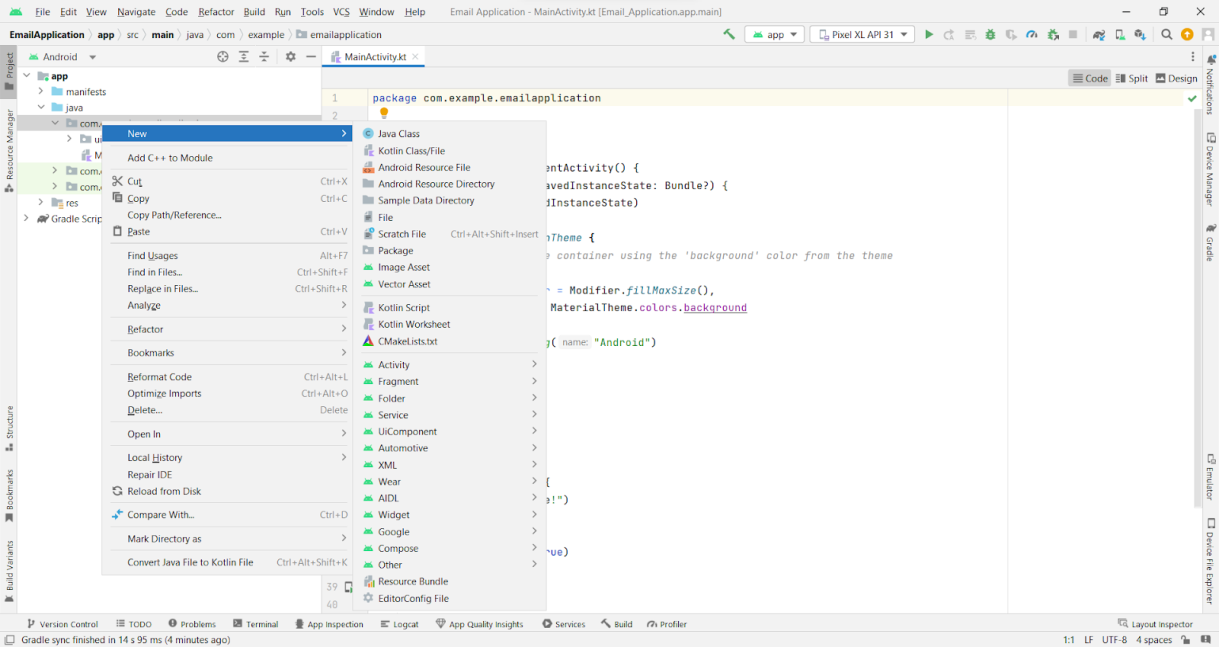


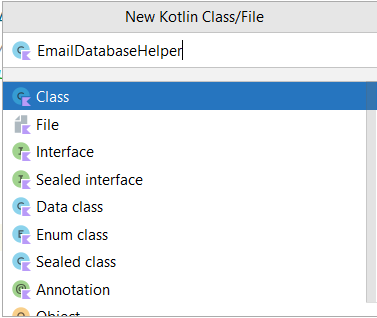
### Create EmailDatabase Class





### Create EmailDatabaseHelper Class

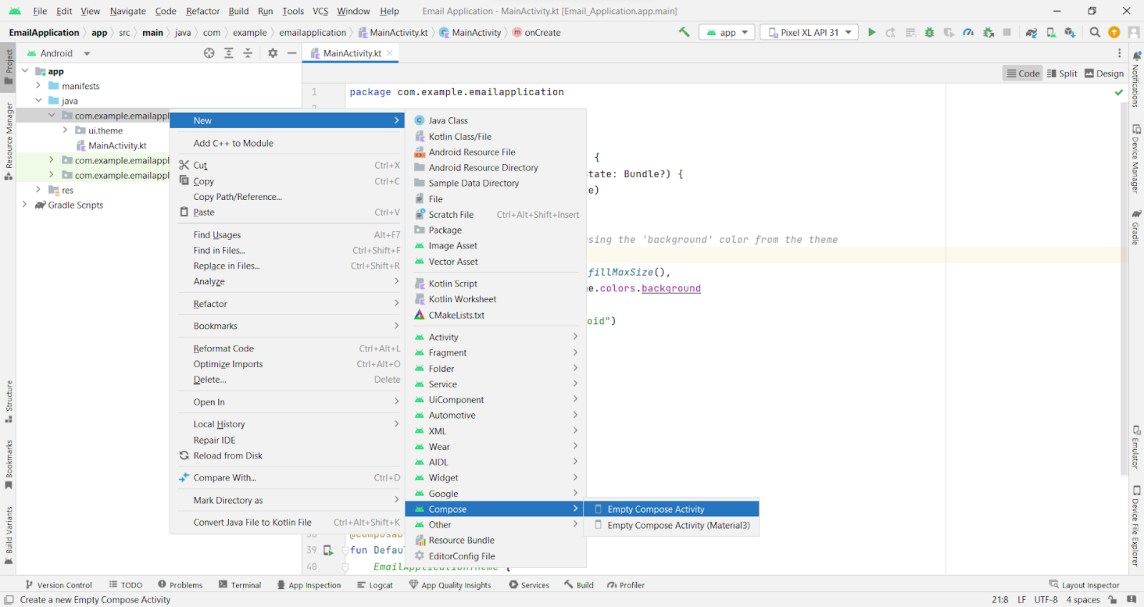


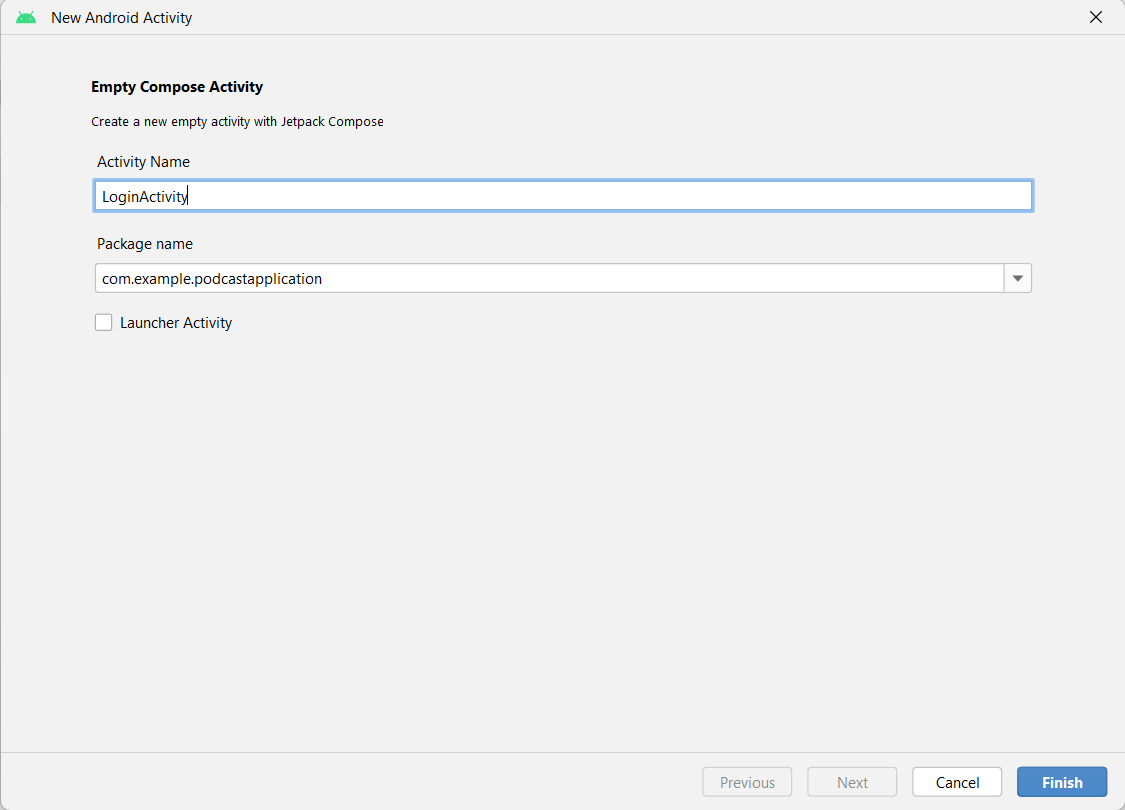


### Building Application UI And Connecting To Database

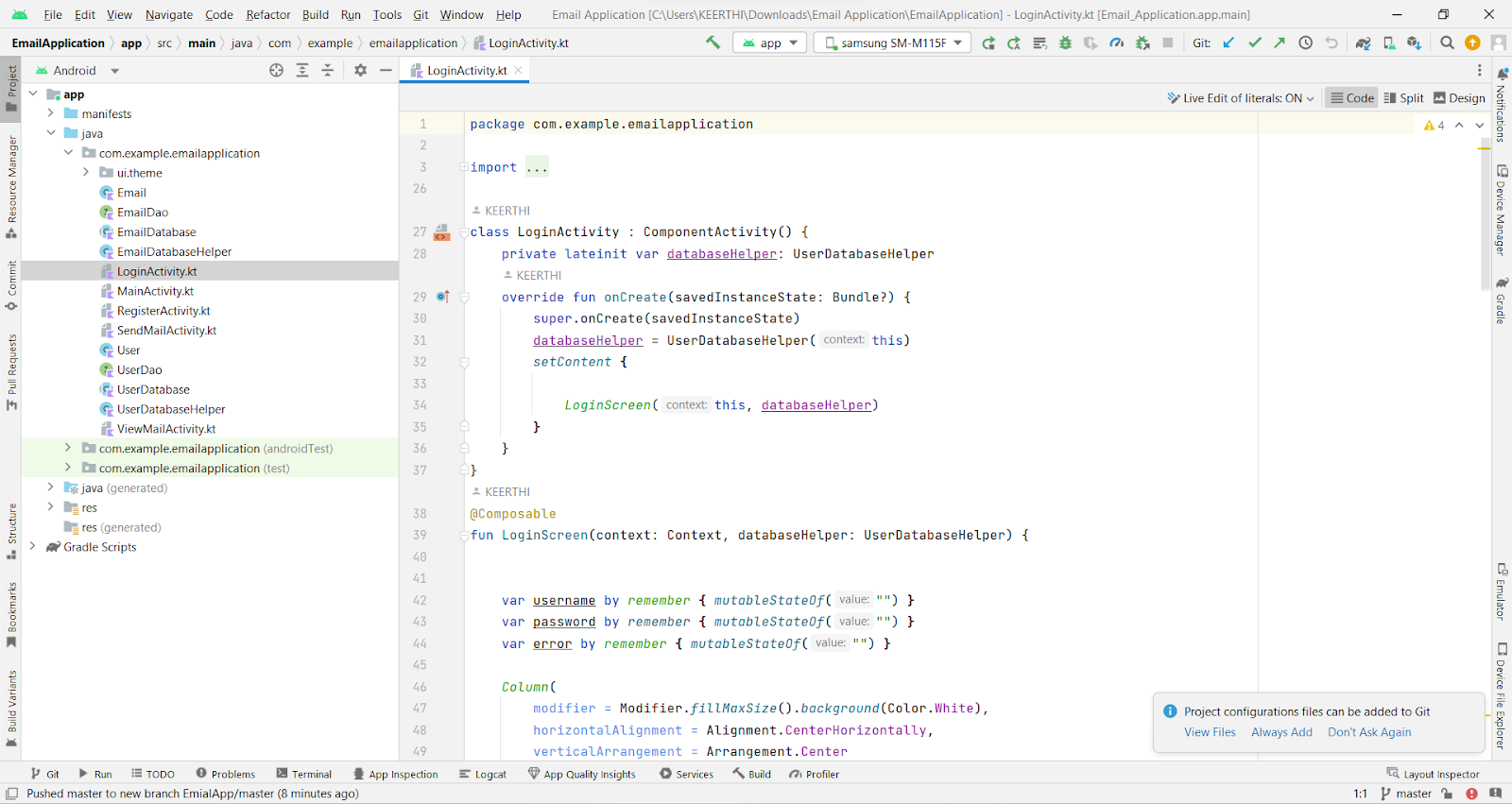
**This milestone explains about Building application UI and Connecting to database.**

### Creating LoginActivity.Kt With Database

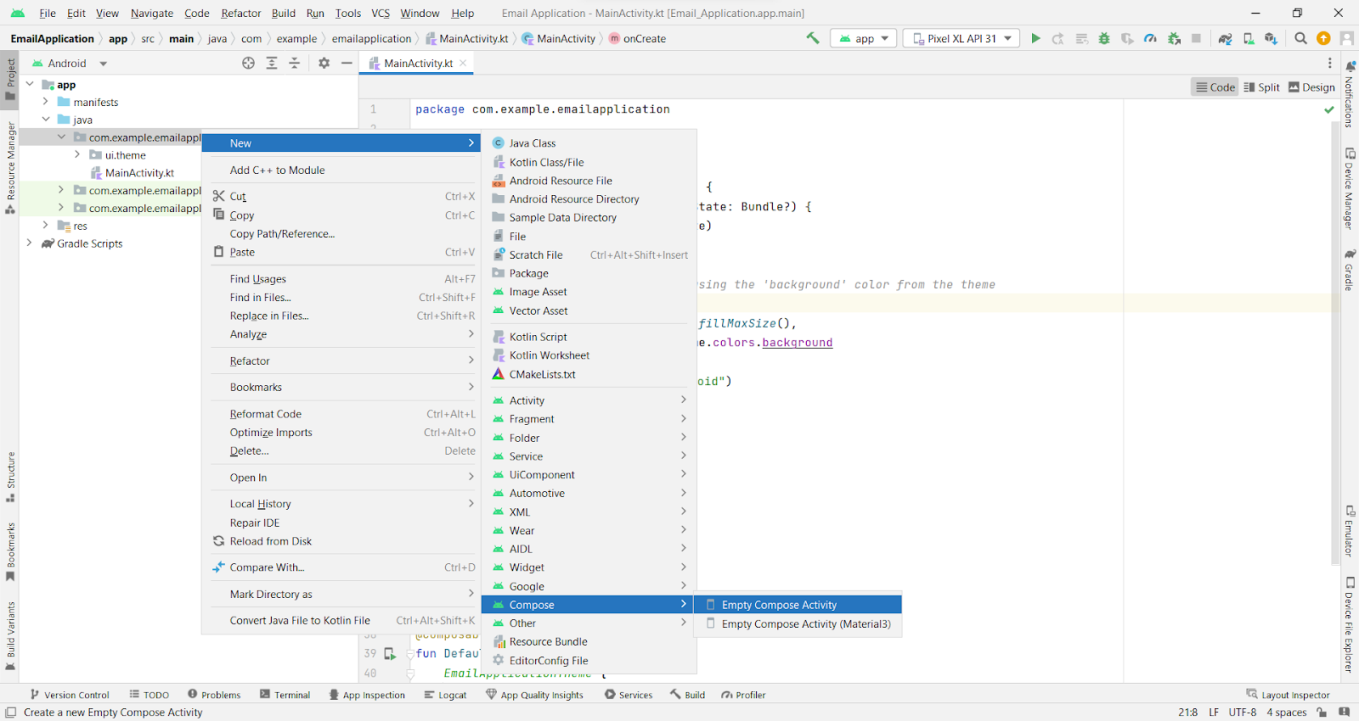




**Database connection in LoginActivity.kt**

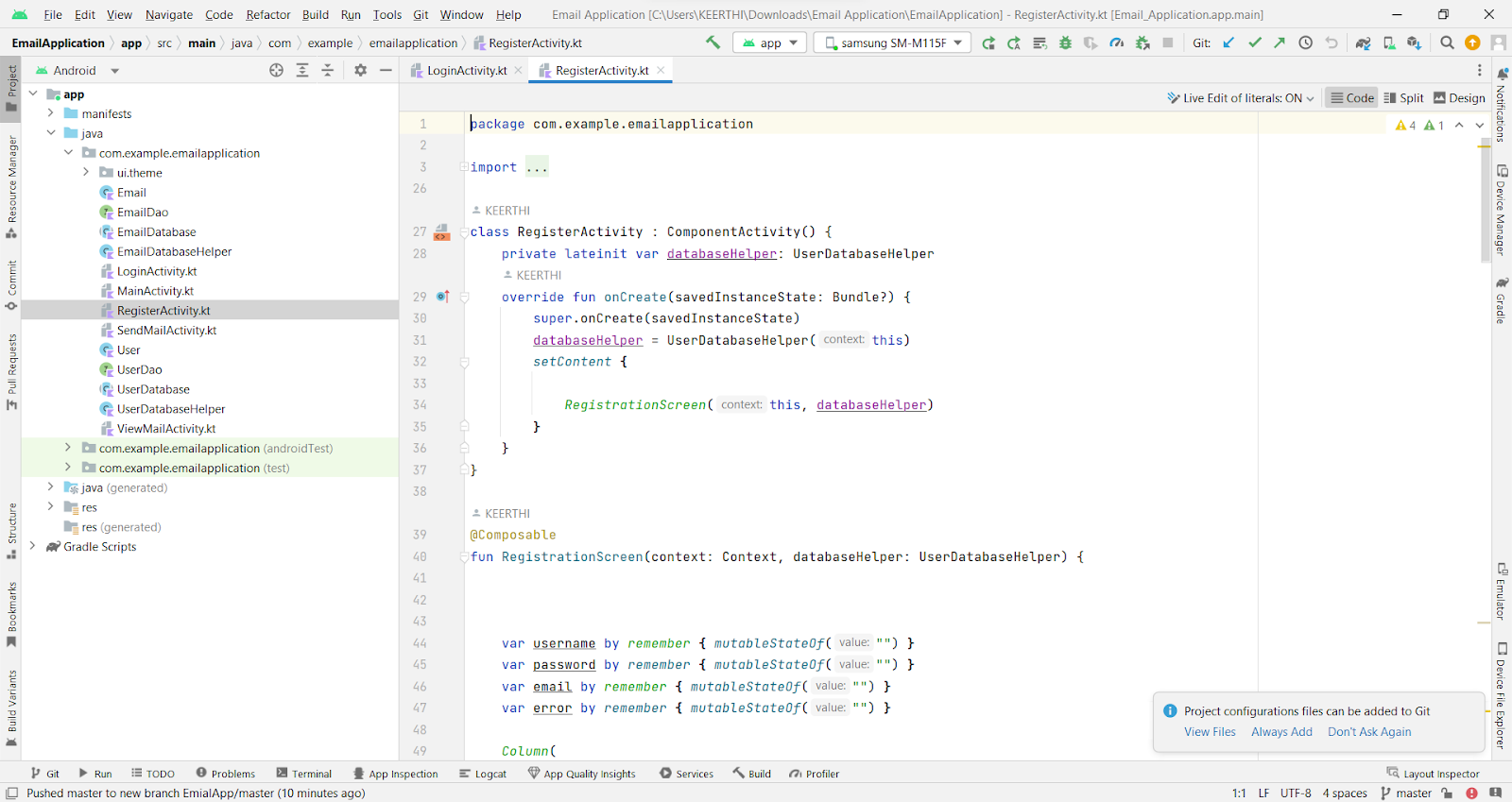


### Creating RegisterActivity.Kt With Database





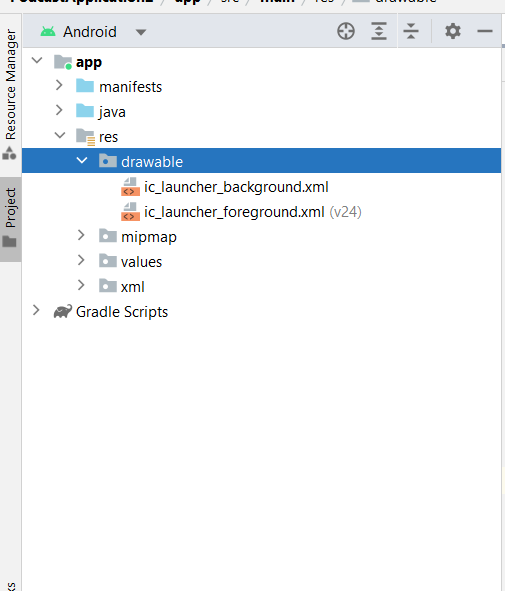
**Database connection in RegisterActivity.kt**



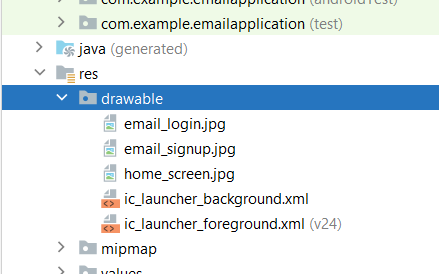
### Creating MainActivity.Kt File

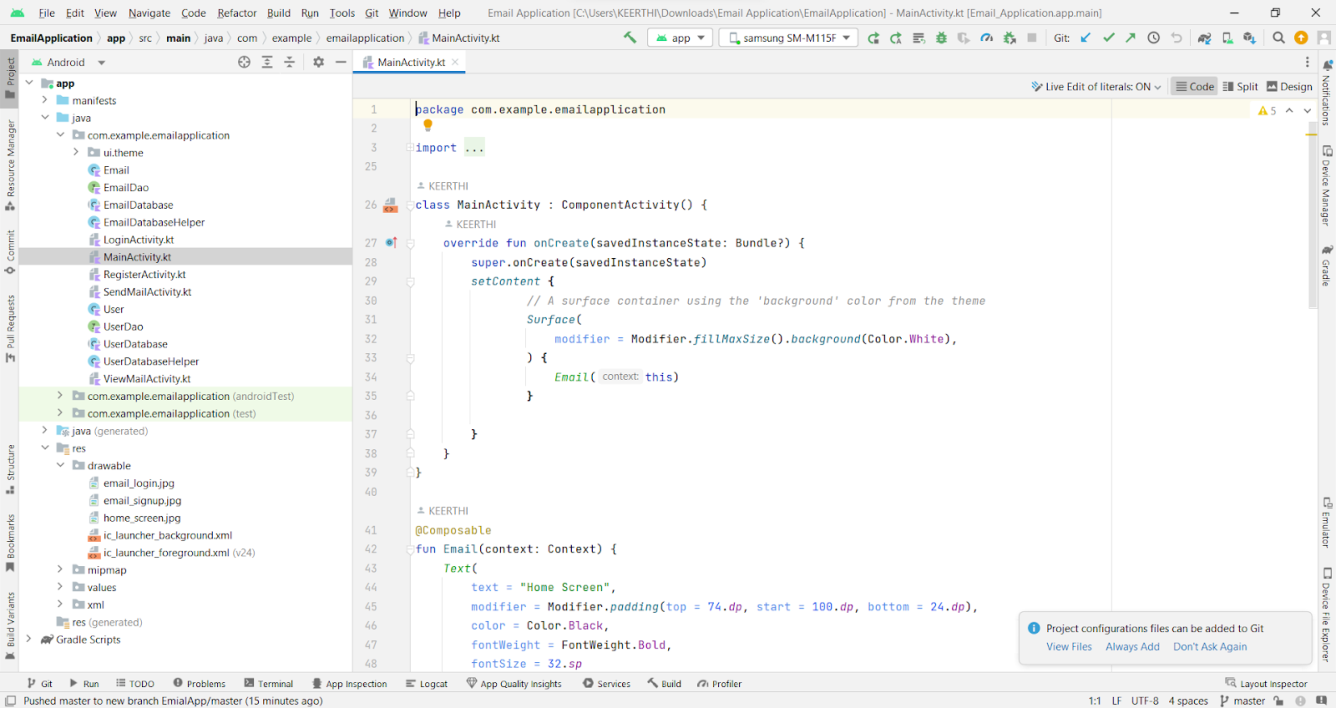
In MainActivity.kt file the main application is developed

* Before creating UI we need to add some images in drawables which are in res

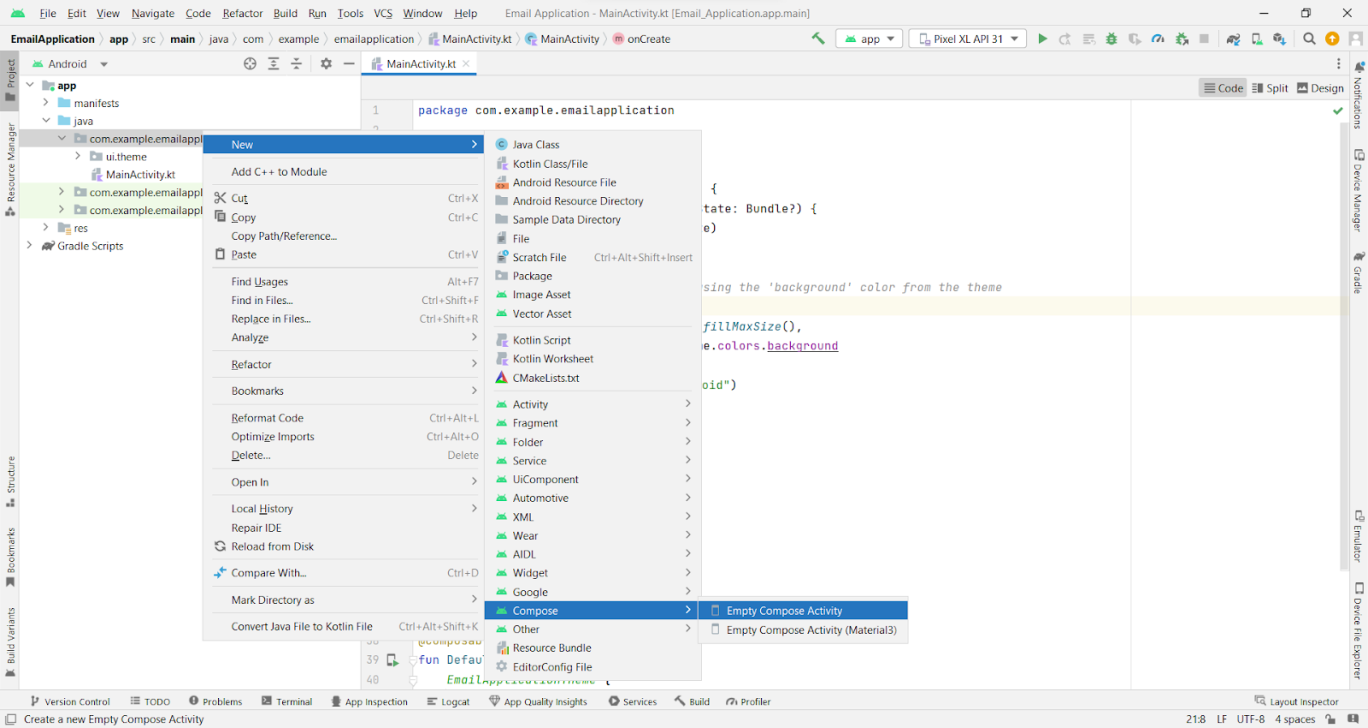


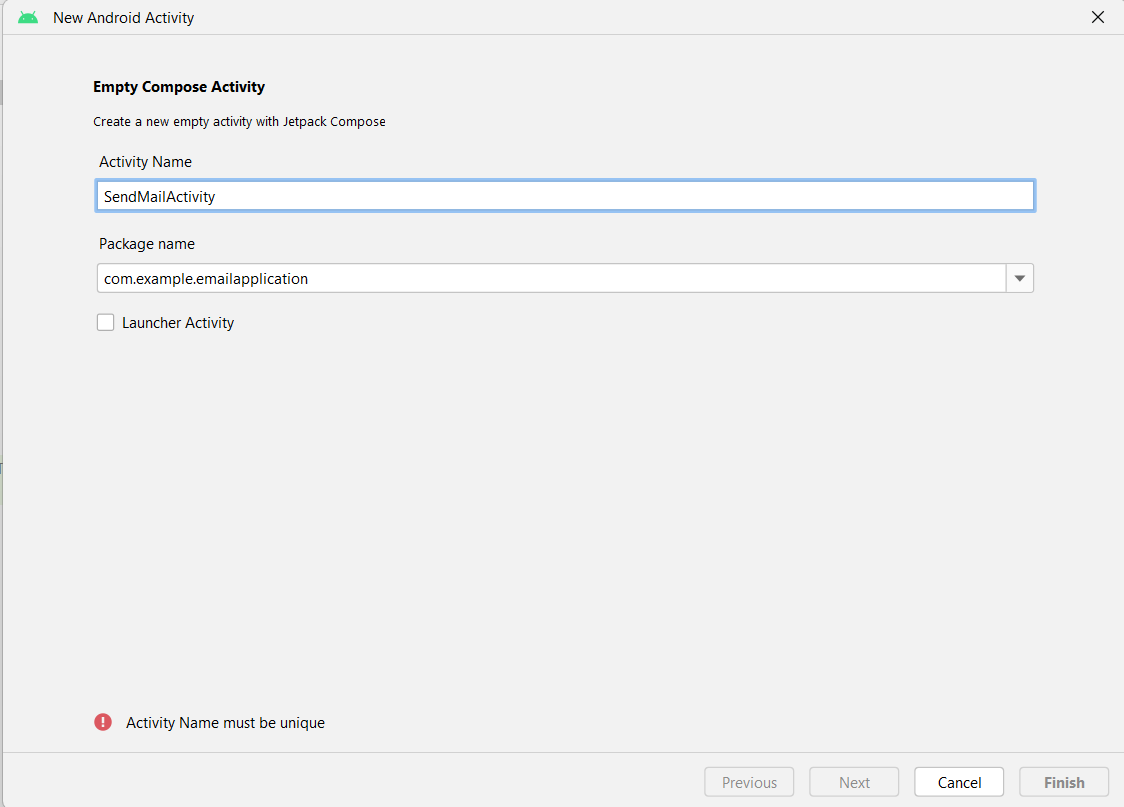
**MainActivity.kt**



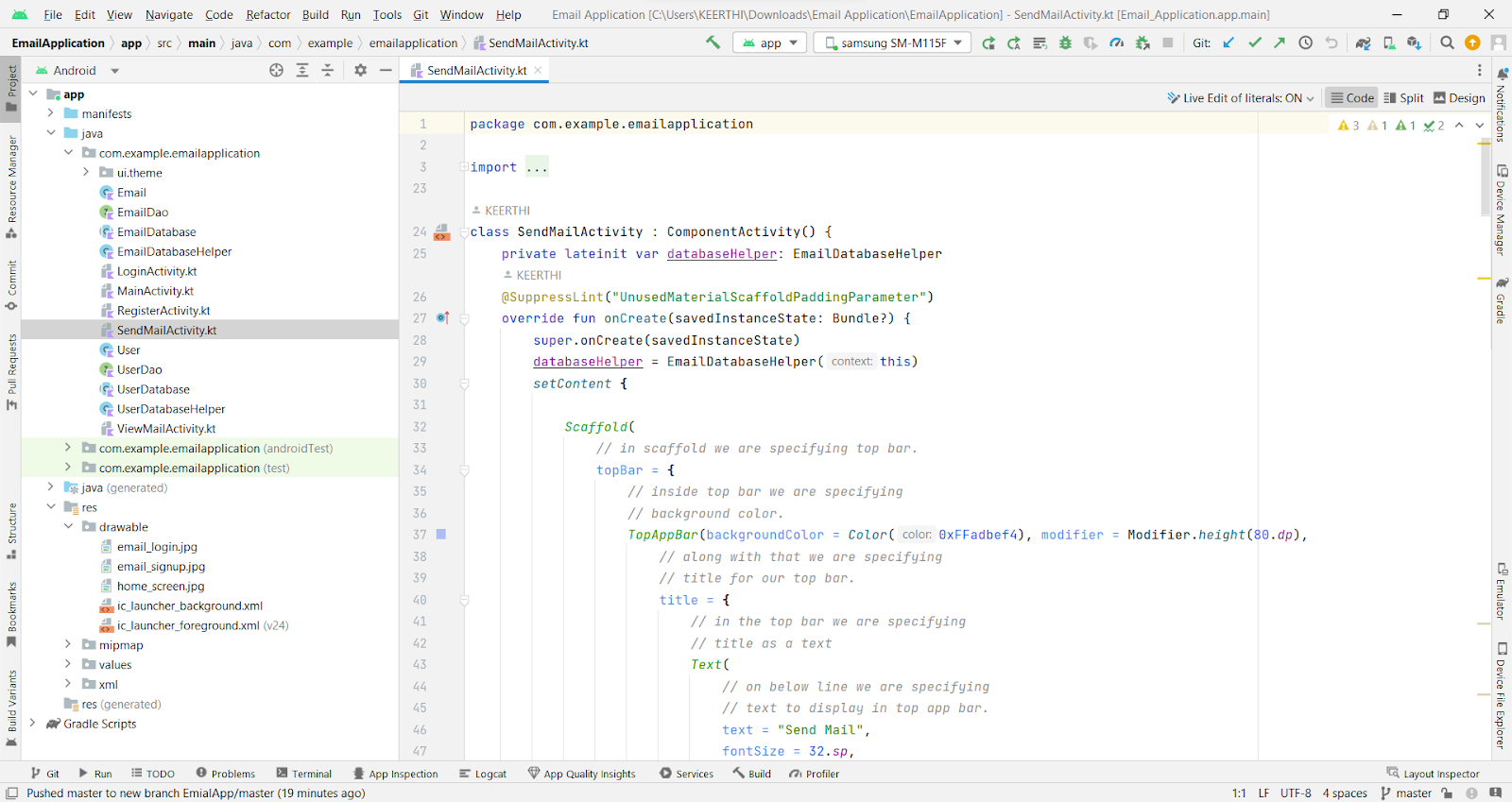


### Creating SendMailActivity.Kt File

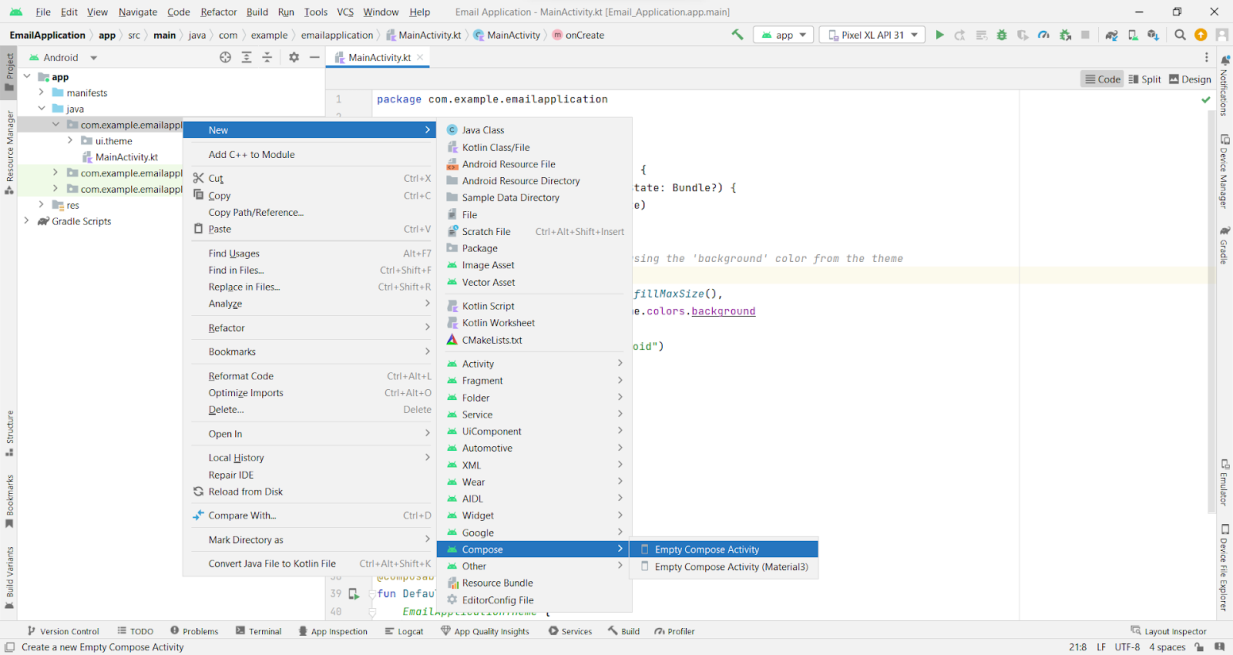


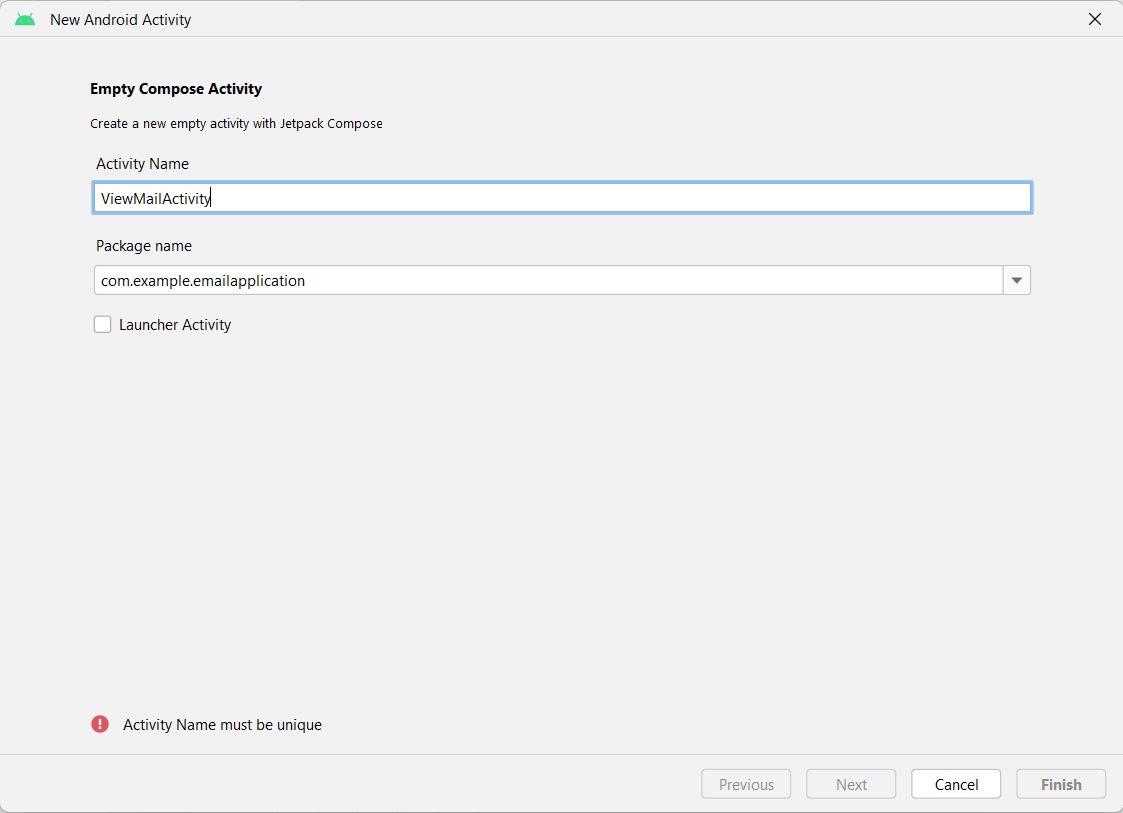


**SendMailActivity.kt**

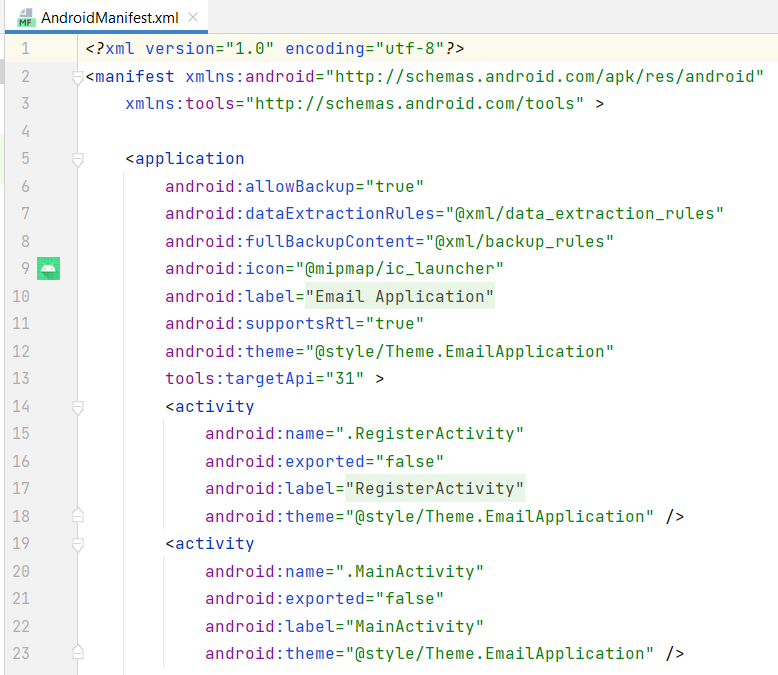


### Creating ViewMailActivity.Kt File



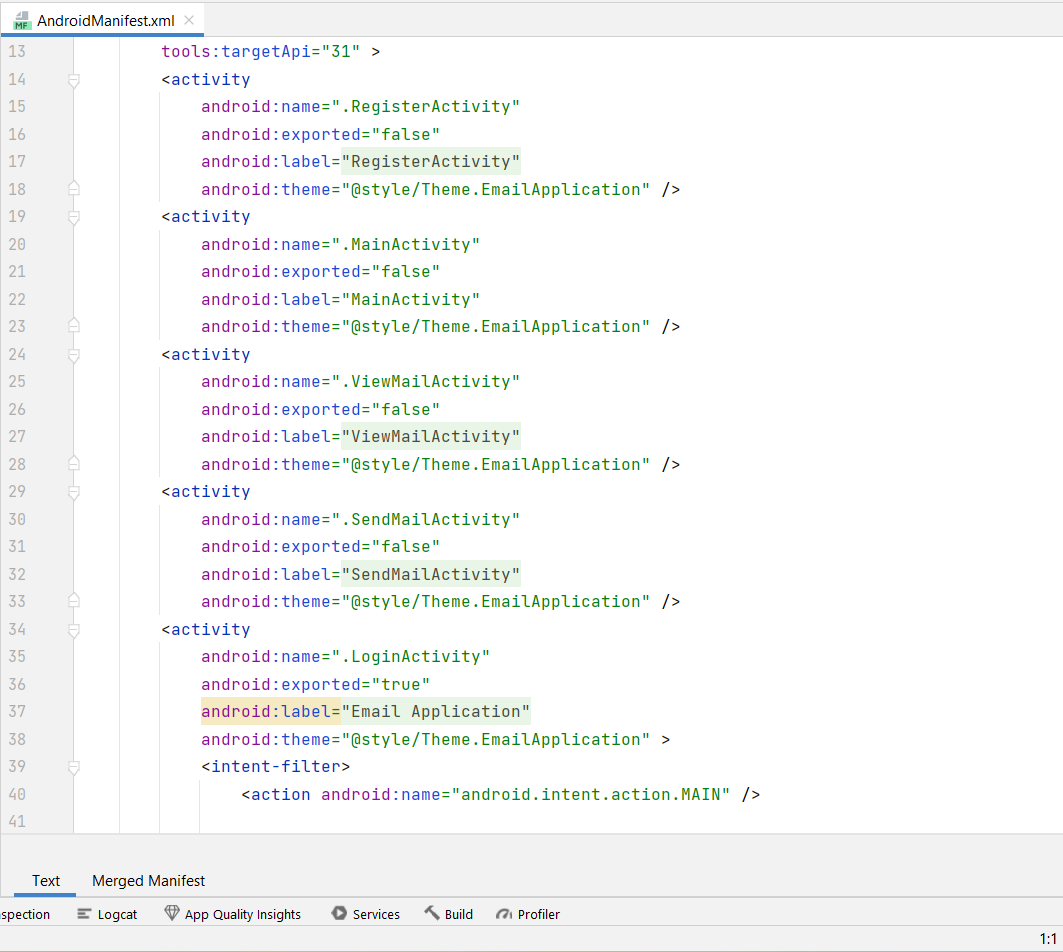


### Modifying AndroidManifest.Xml



**When we run the app we will get the MainActivity.kt file as our first screen , but we want LoginActivity.kt , So we need to change in AndroidManifest.xml.**

**Changed AndroidManifest.xml**



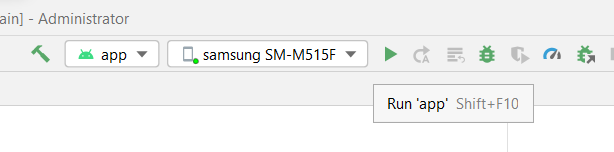
### Running The Application

**This milestone explains about running the application.**

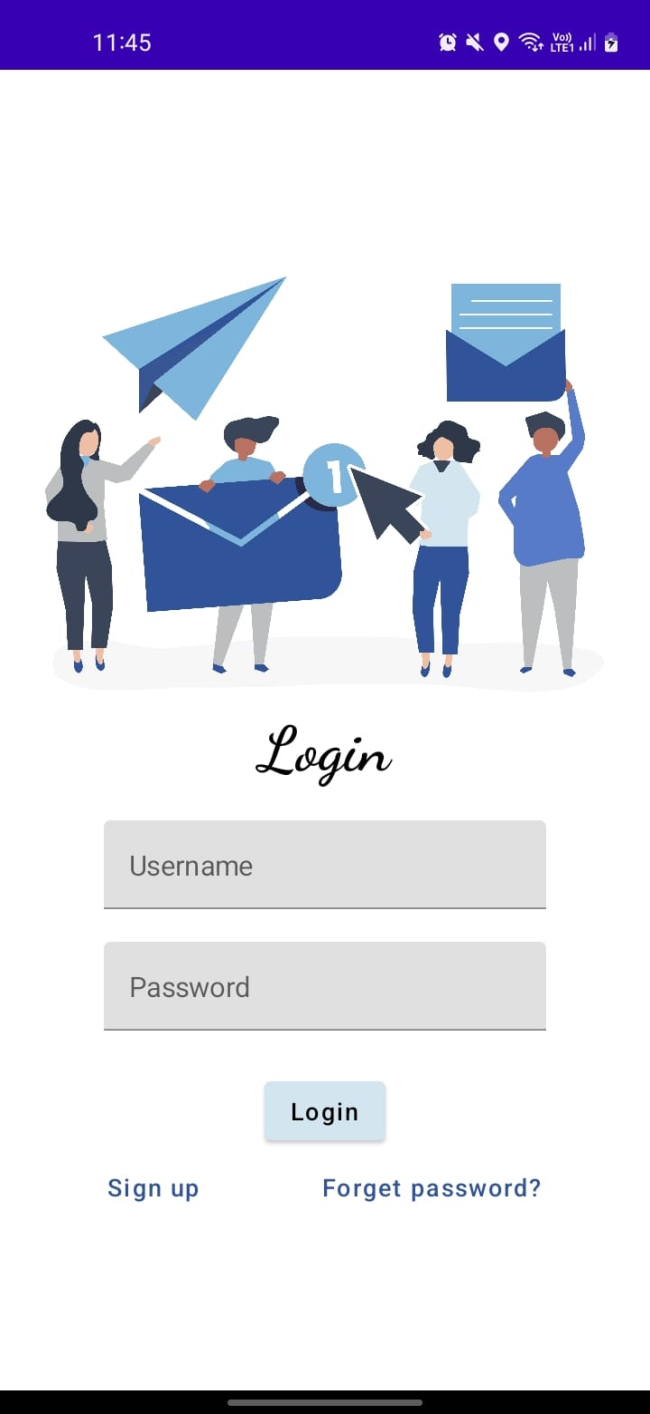
### Run Apps On A Hardware Device

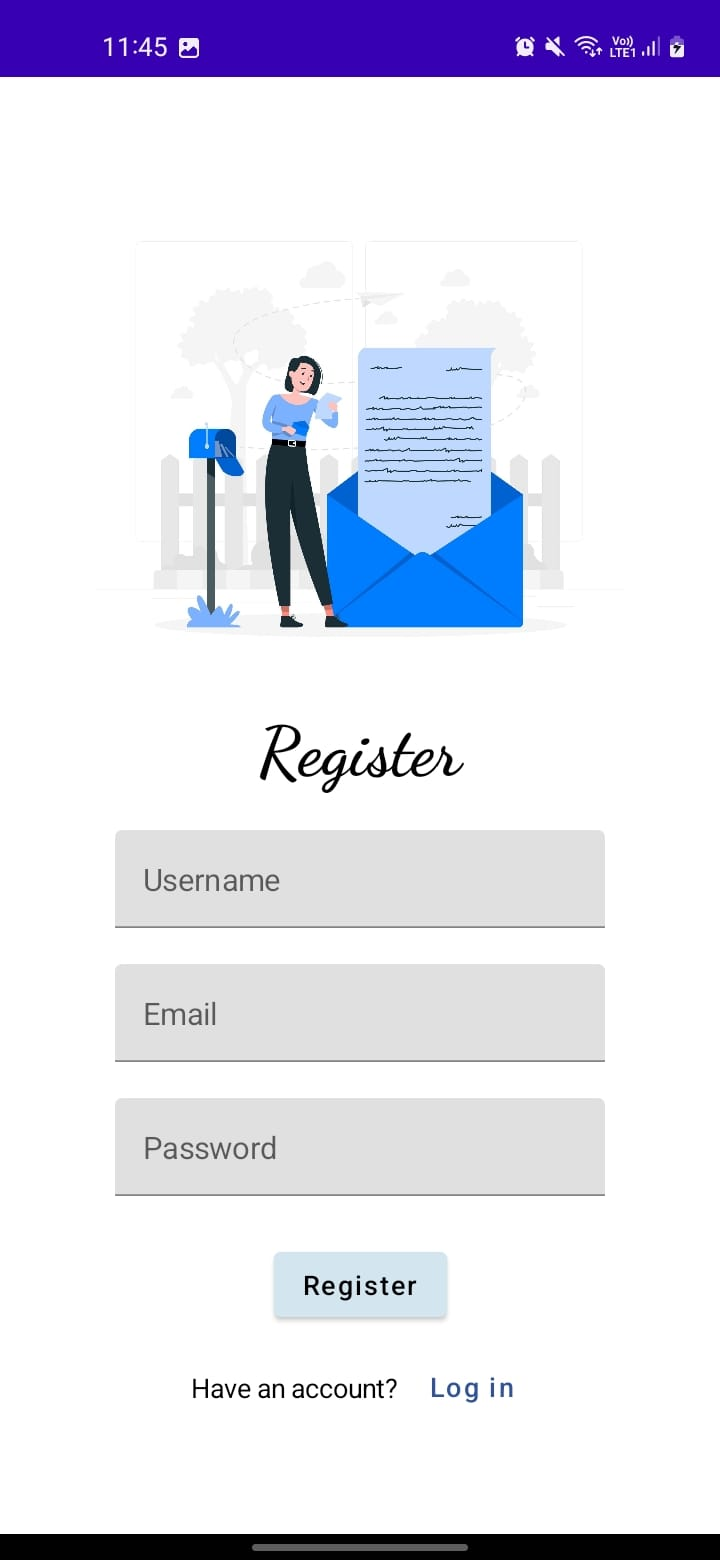
<https://developer.android.com/studio/run/device>

### Run The Application In Mobile



**Final Output of the Application :**

**Login Page : Register Page :**



**Main Page:**

