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

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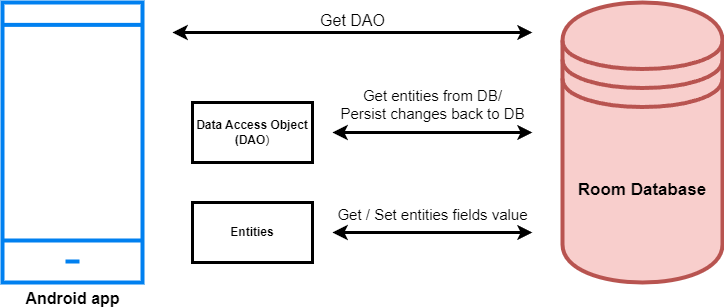
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**Owl-M: A Material Design Study App**

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

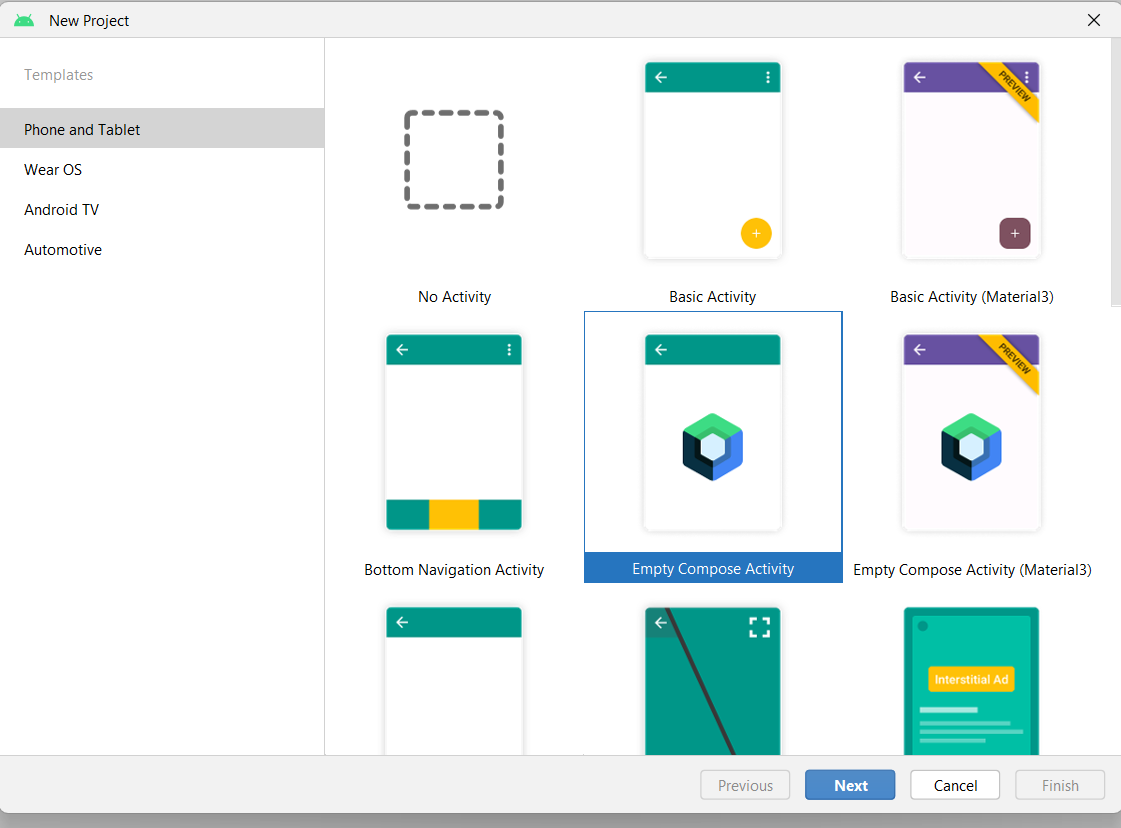
<https://developer.android.com/studio/install>

**Creating a new project**

Creating a new project

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

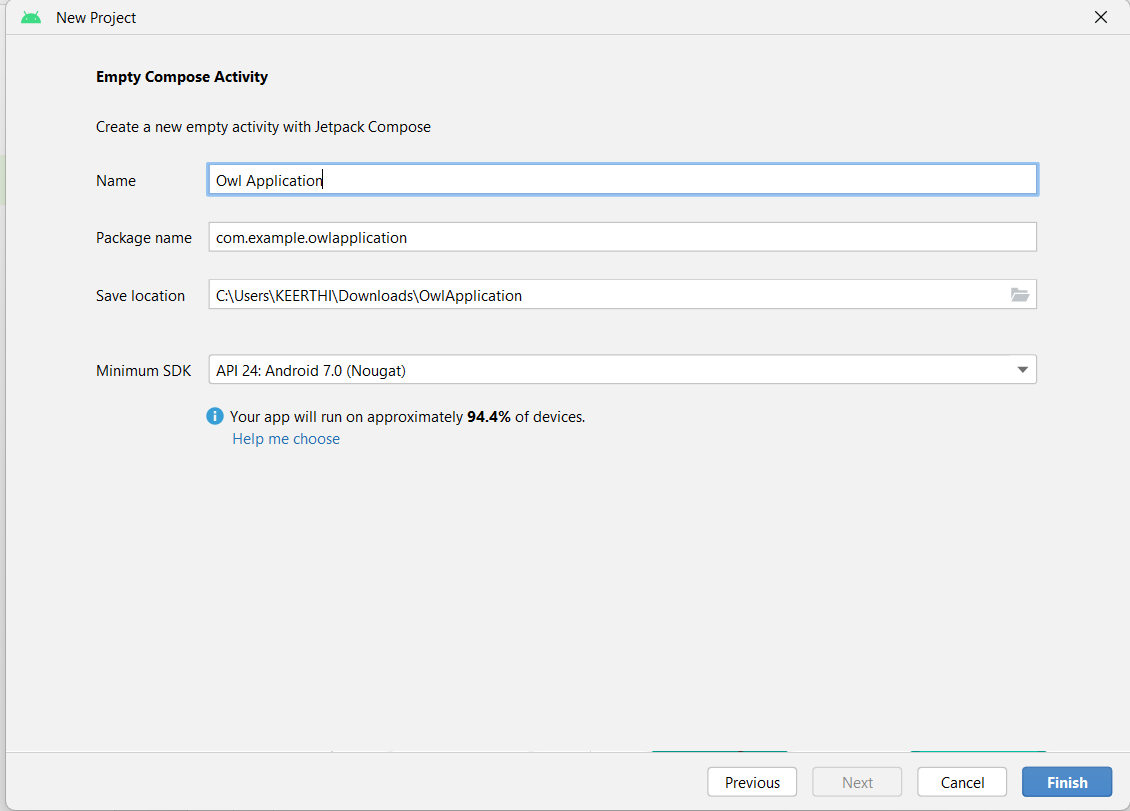
Step 2 : Click on Next button.



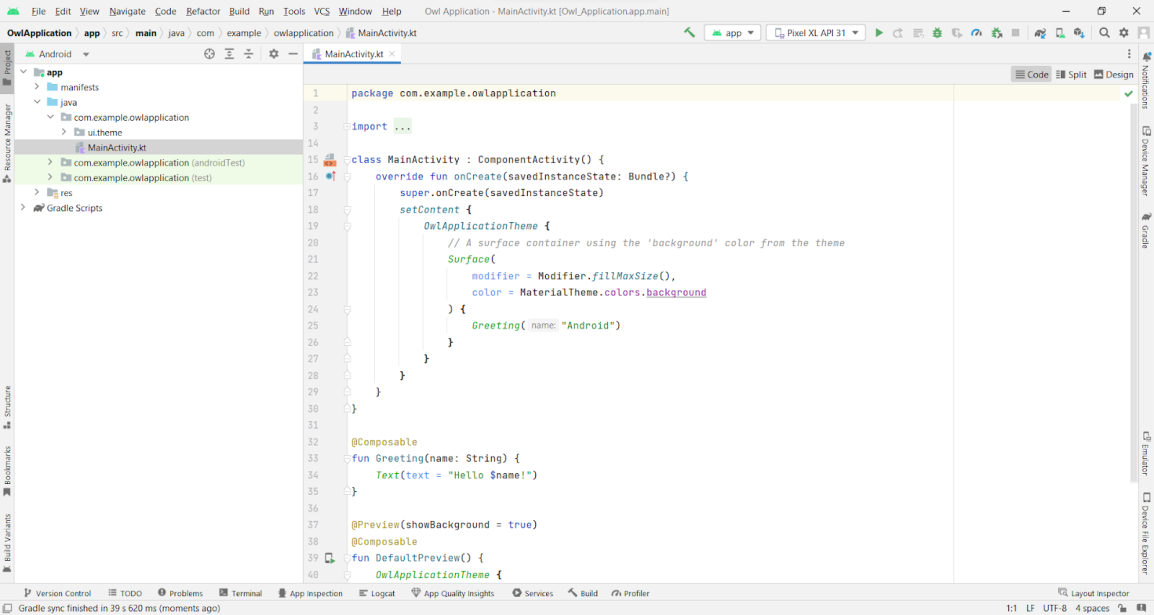
Step 3 : Give name to the new project.

Step 4 : Give the Minimum SDK value

Step 5 : Click Finish



Main activity file

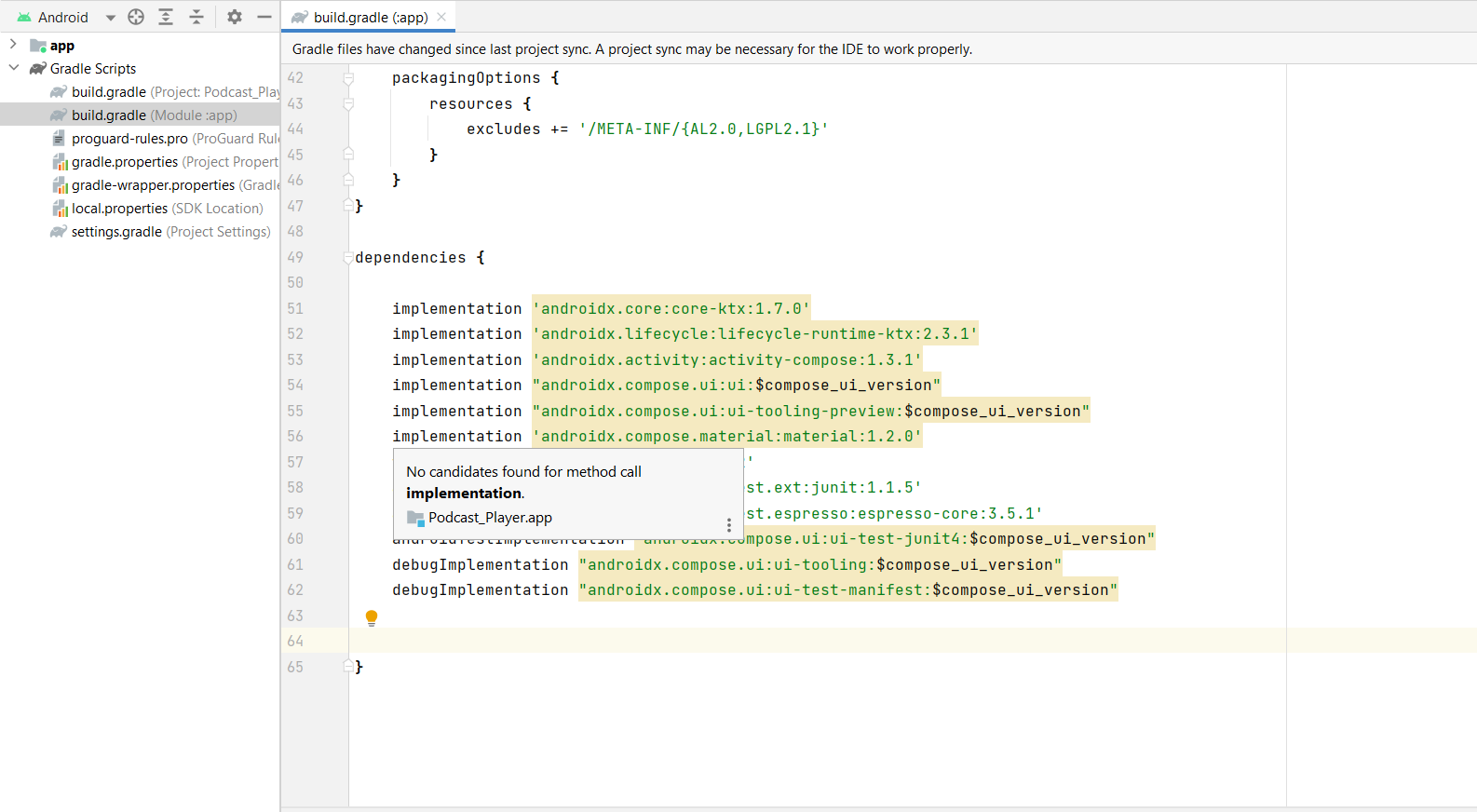


**Adding required dependencies**

This milestones explains about adding required dependencies.

**Gradle scripts > build.gradle(Module :app)**

Gradle scripts > build.gradle(Module :app)



**Adding room dependencies**

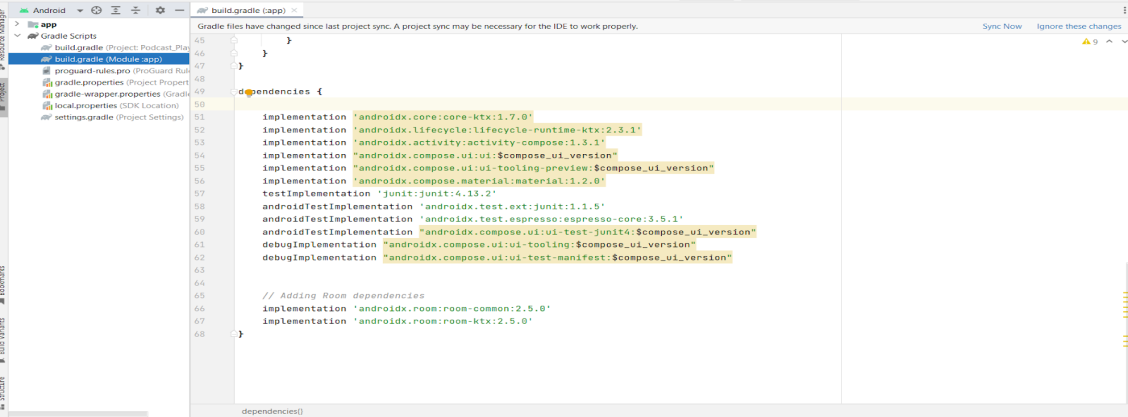
Adding room dependencies

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'



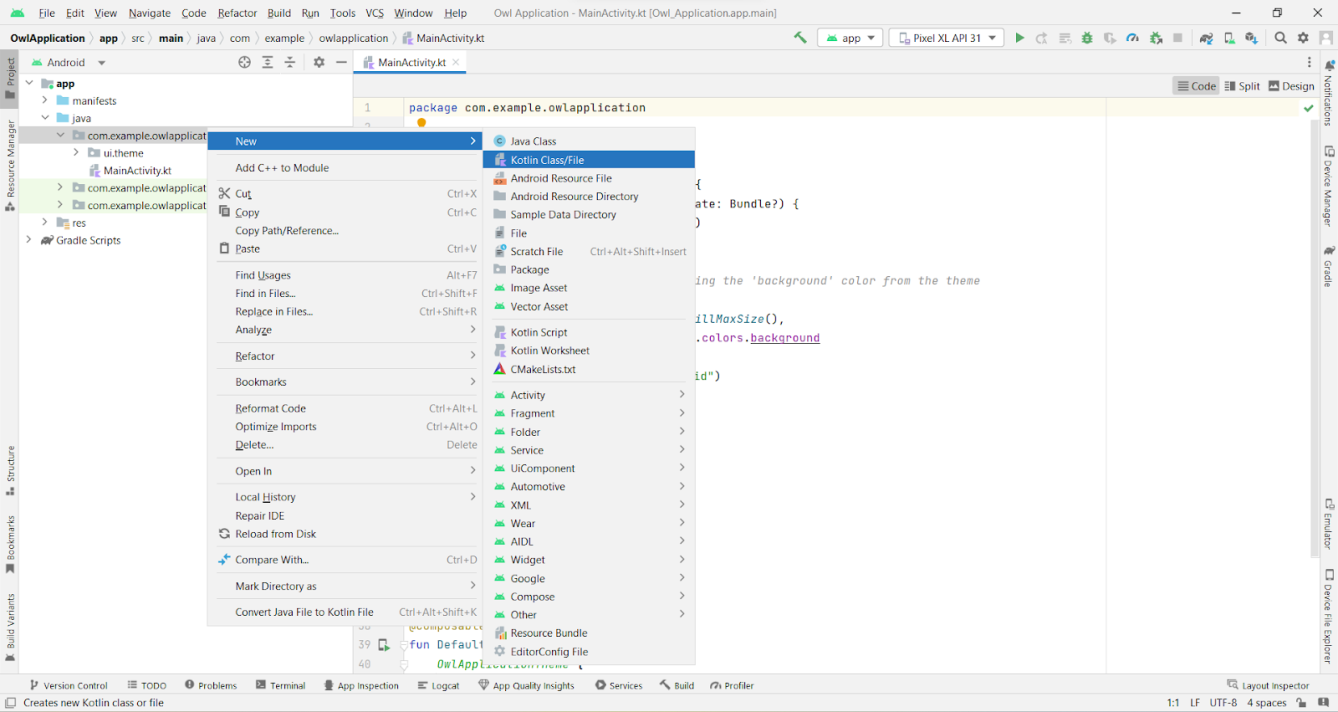
Step 3 : Click on Sync now

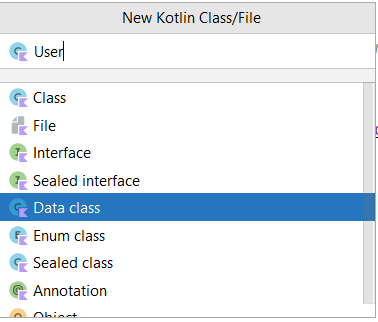
**Creating the database classes**

This milestone explains about Creating the database classes

**Create User data class**

Create User data class



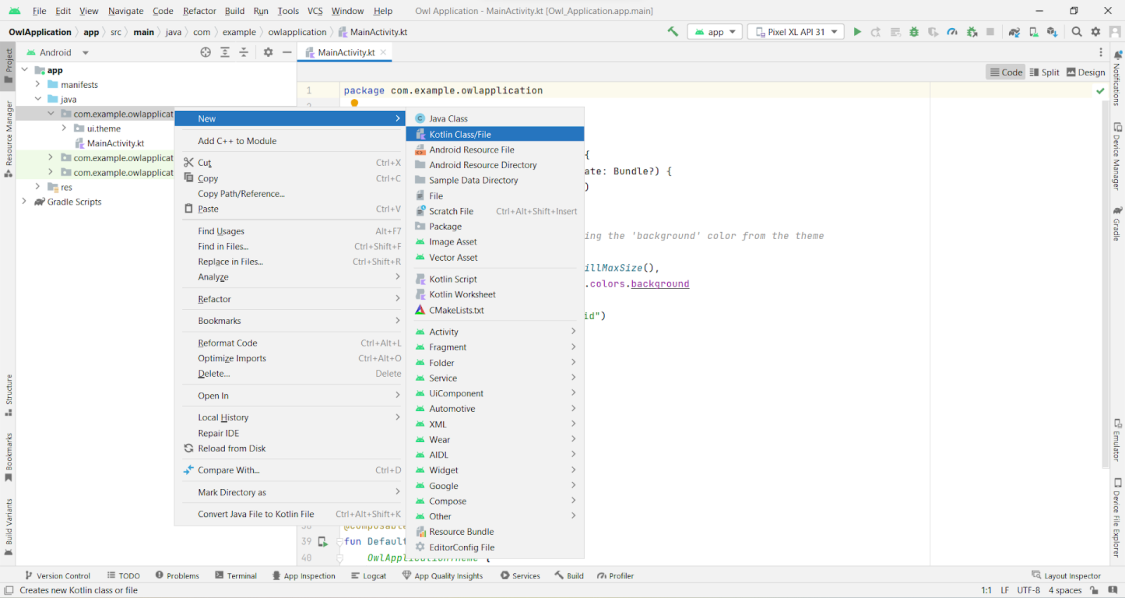


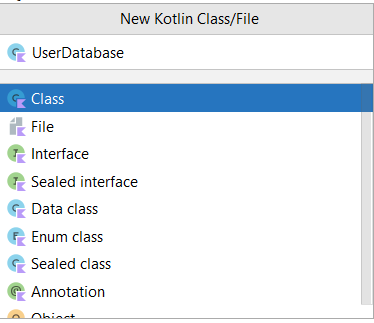
User data class code:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/User.kt>

**Create an UserDatabase class**

Create an UserDatabase class



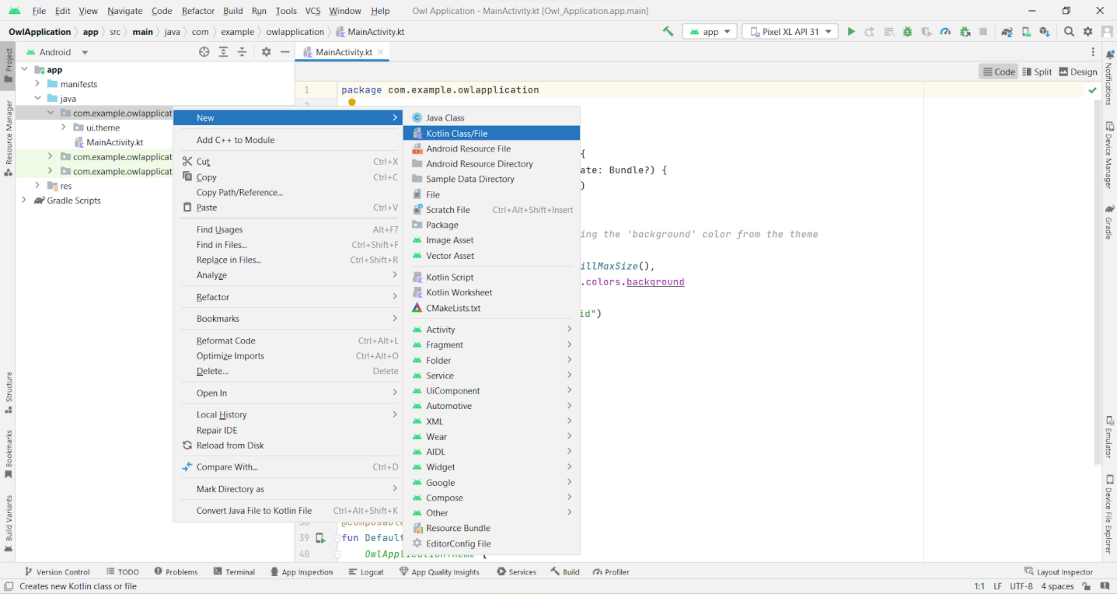


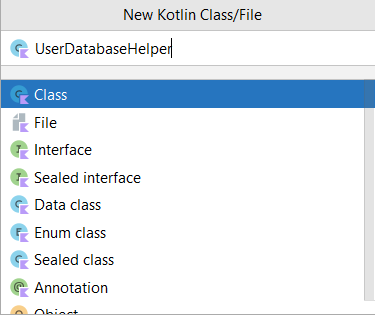
UserDatabase class code :

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/UserDatabase.kt>

**Create an UserDatabaseHelper class**

Create an UserDatabaseHelper class





UserDatabaseHelper class code :

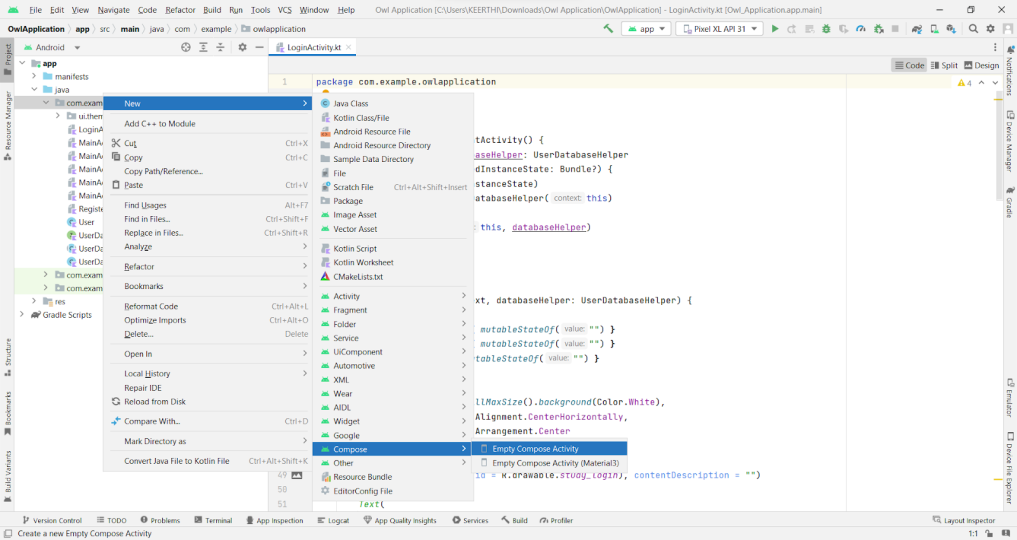
<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/UserDatabaseHelper.kt>

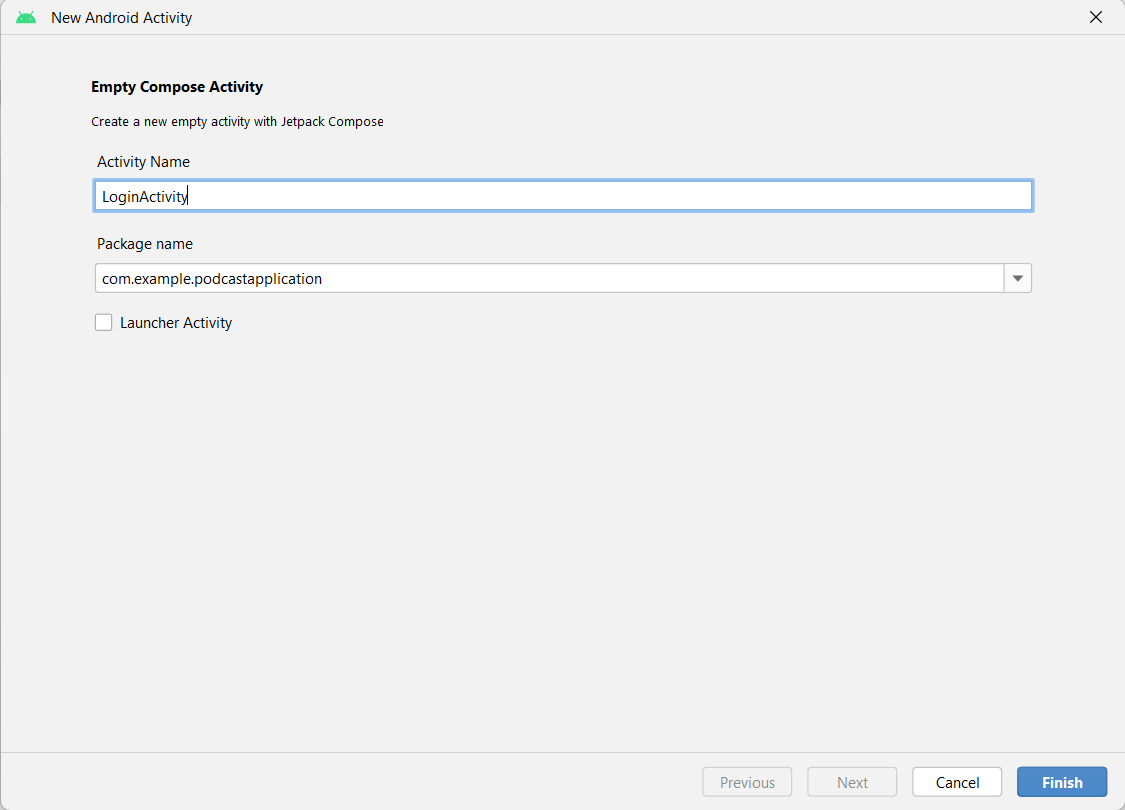
**Building application UI and connecting to database**

This milestone explains about Building application UI and connecting to database.

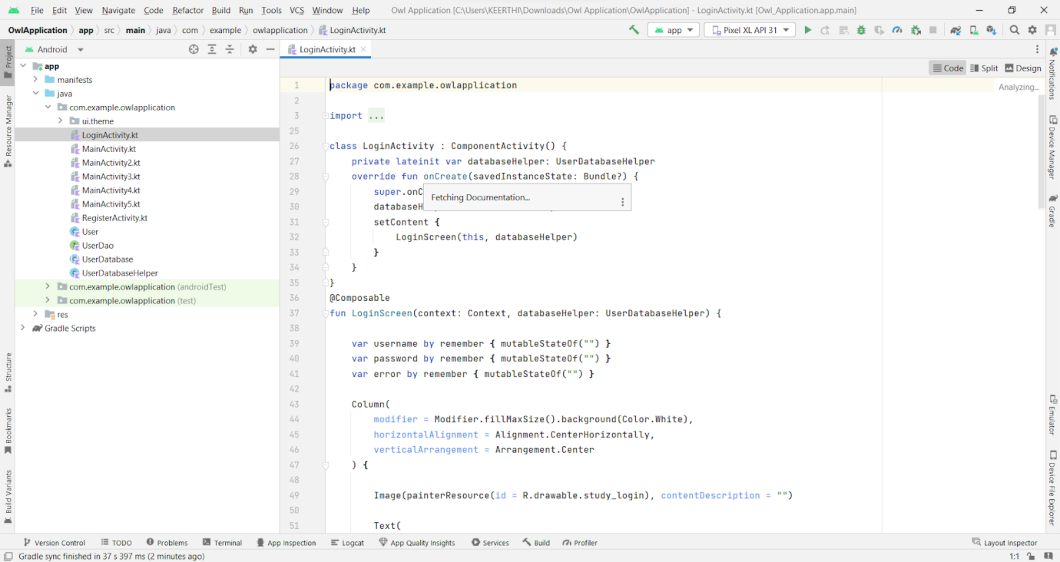
**Creating LoginActivity.kt with database**

**Creating LoginActivity.kt with database**





**Database connection in LoginActivity.kt**

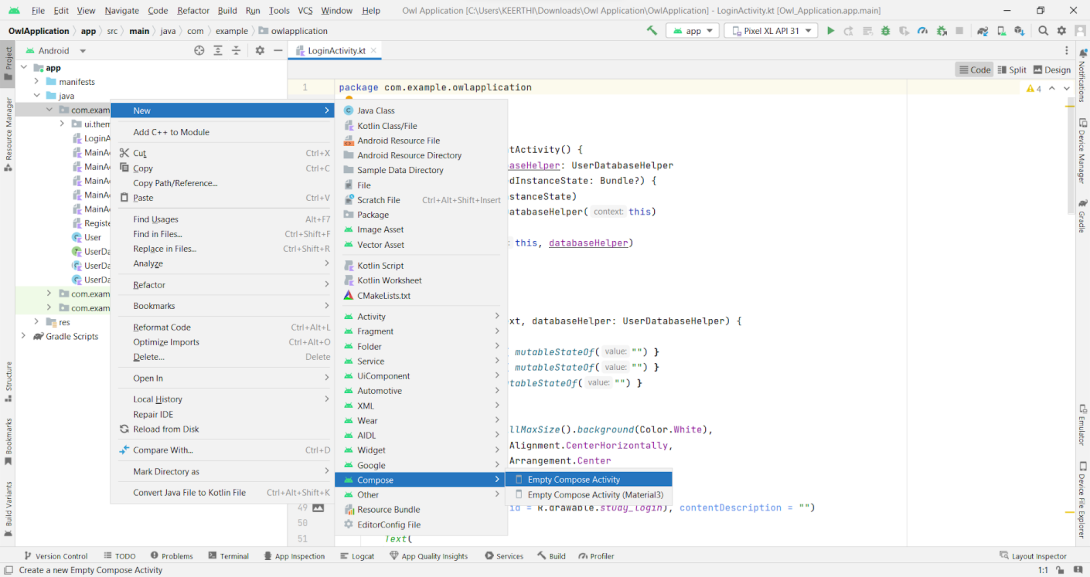


Complete code in below link:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/LoginActivity.kt>

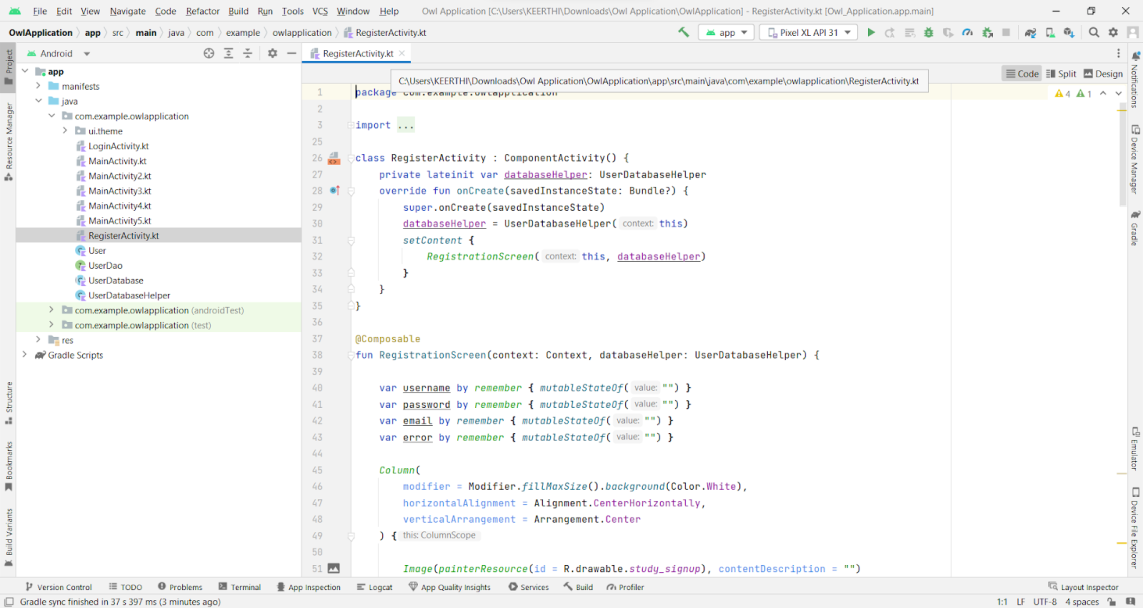
**Creating RegisterActivity.kt with database**

Creating RegisterActivity.kt with database





Database connection in RegisterActivity.kt



Complete code in below link:

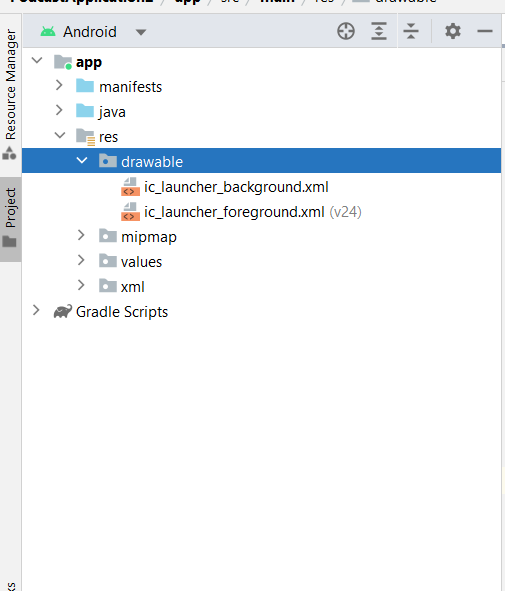
<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/RegisterActivity.kt>

### Creating MainActivity.kt file

Creating MainActivity.kt file

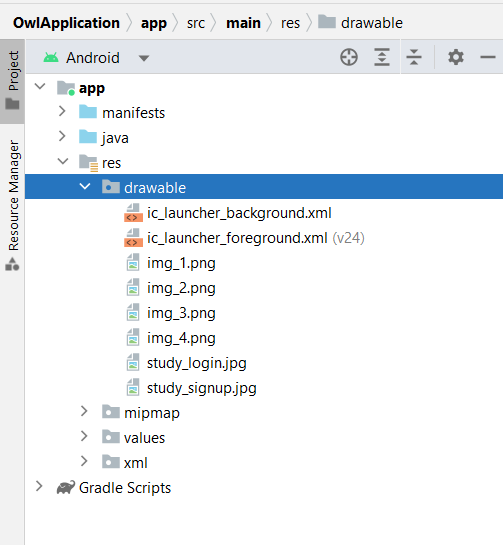
In MainActivity.kt file the main application is developed

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

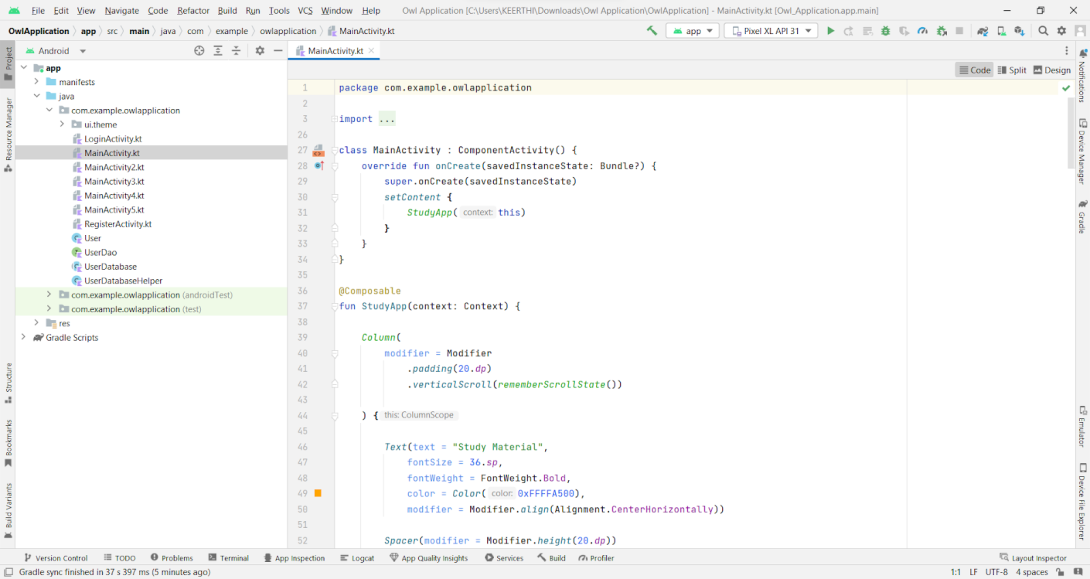


Download the required drawable from the code:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/master/app/src/main/res/drawable>



MainActivity.kt

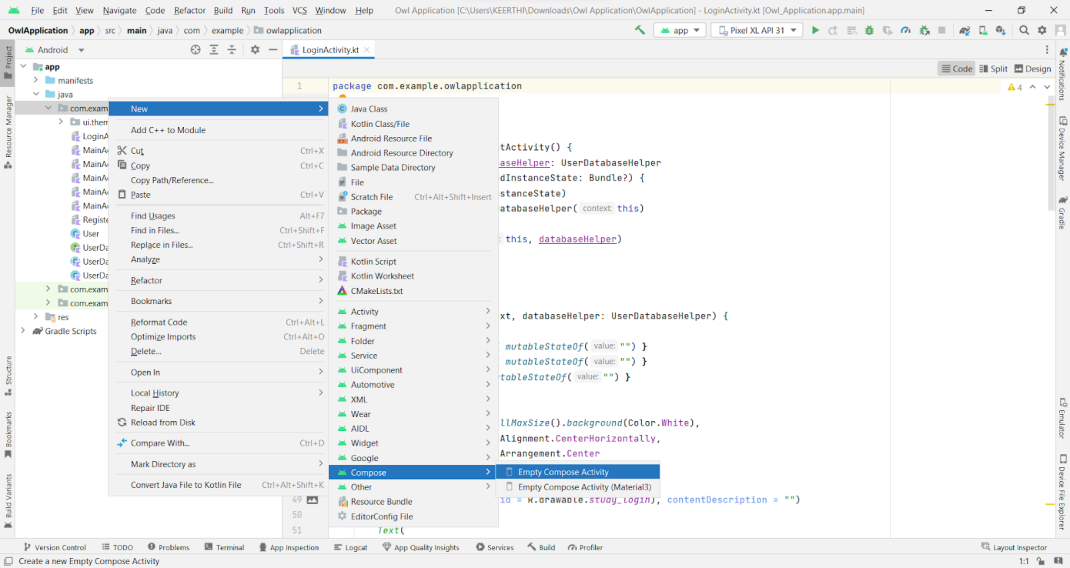


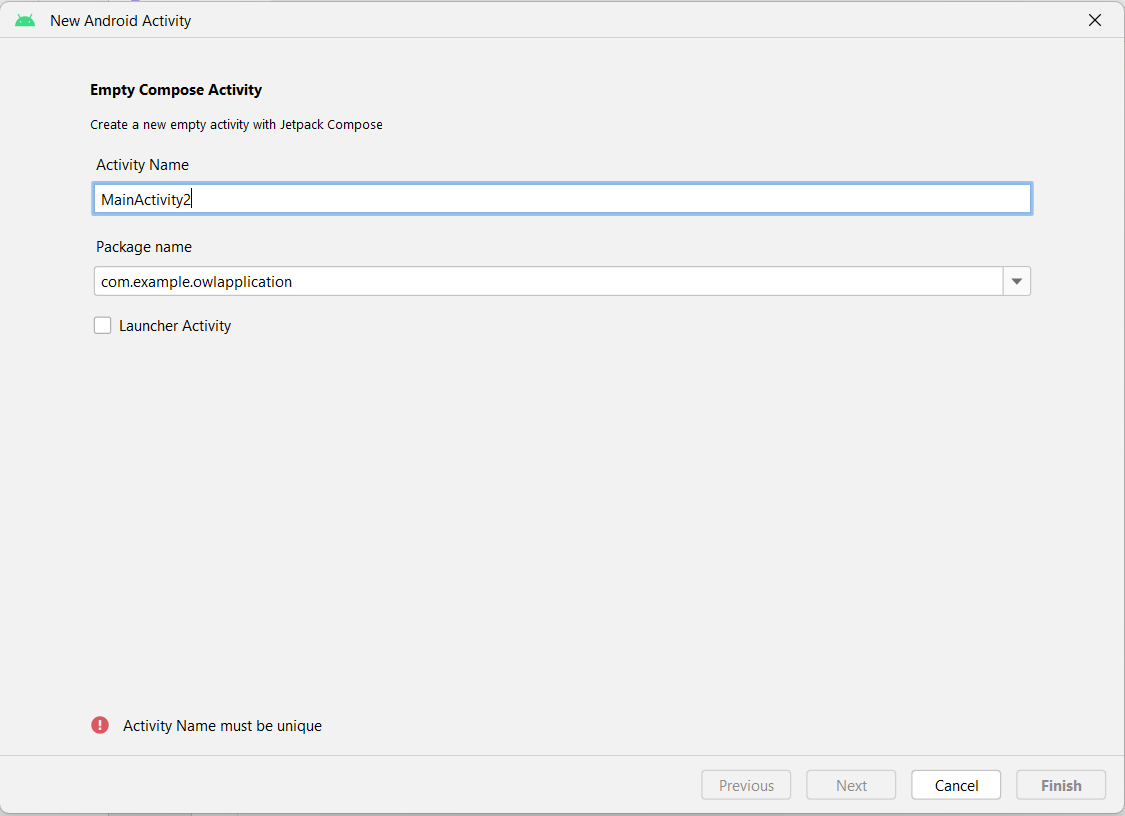
Complete code in below link:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/MainActivity.kt>

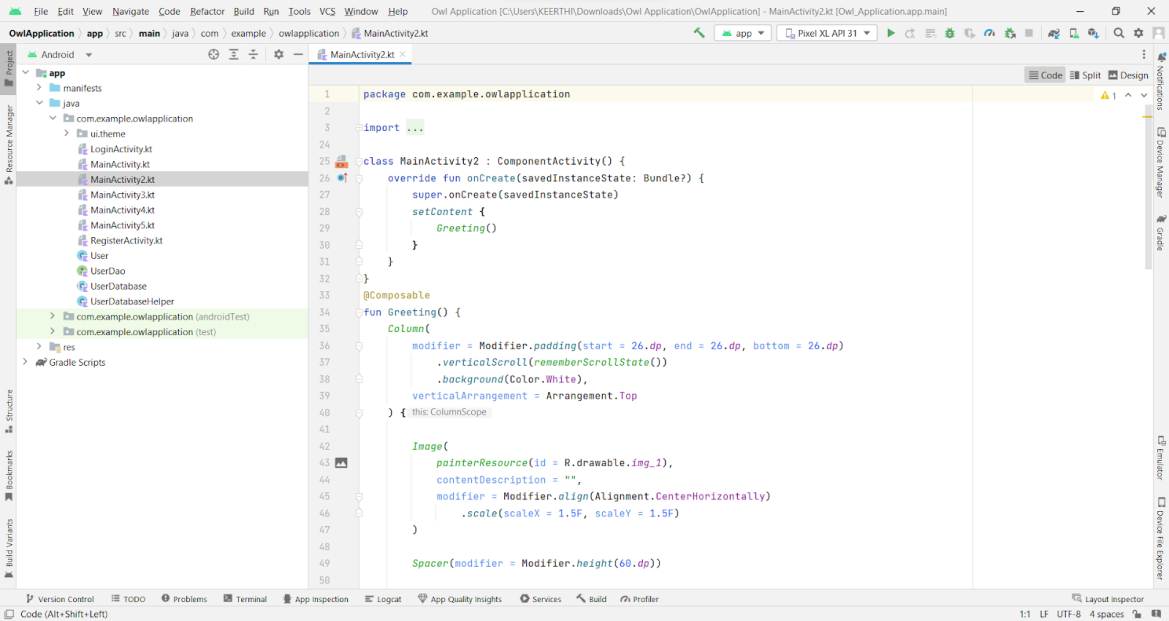
### Creating MainActivity2.kt file

Creating MainActivity2.kt file





MainActivity2.kt

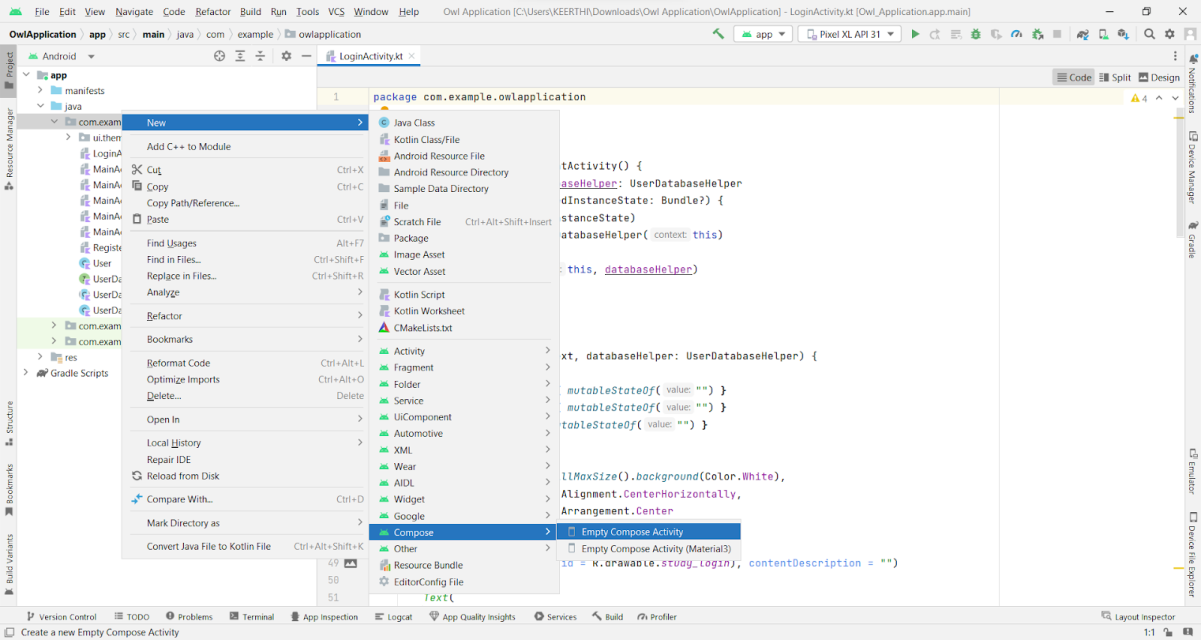


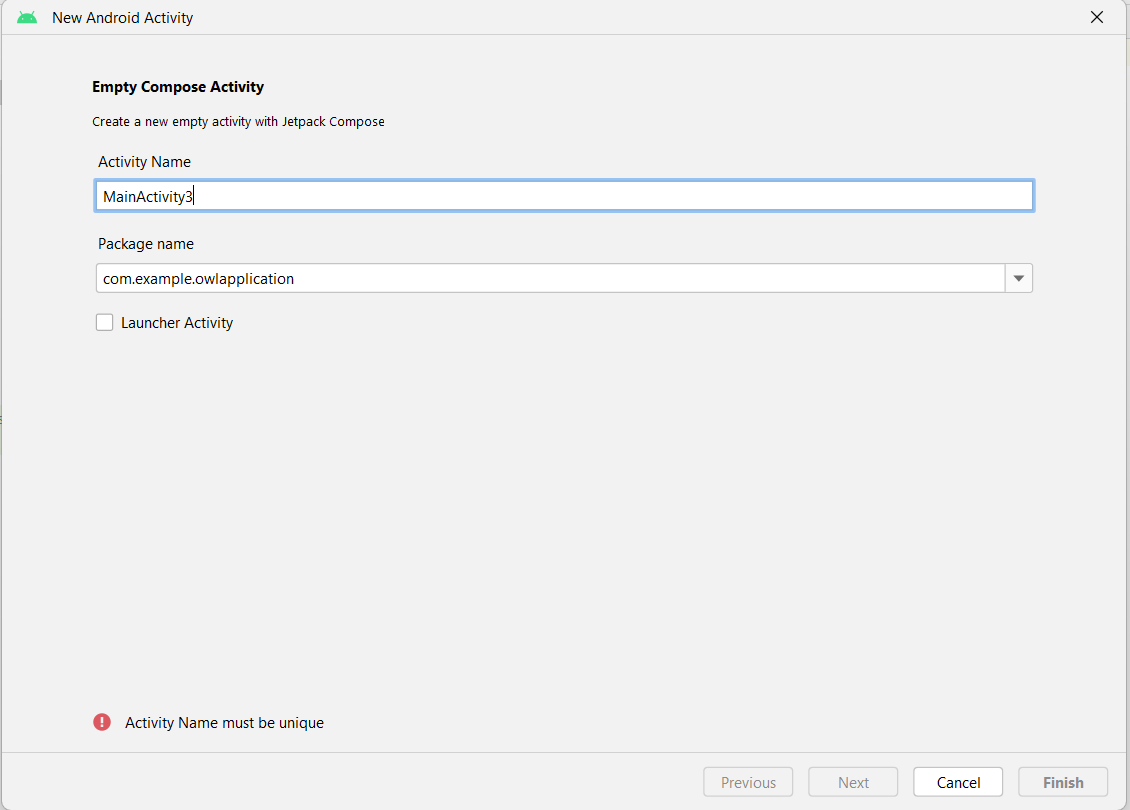
Complete code in below link:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/MainActivity2.kt>

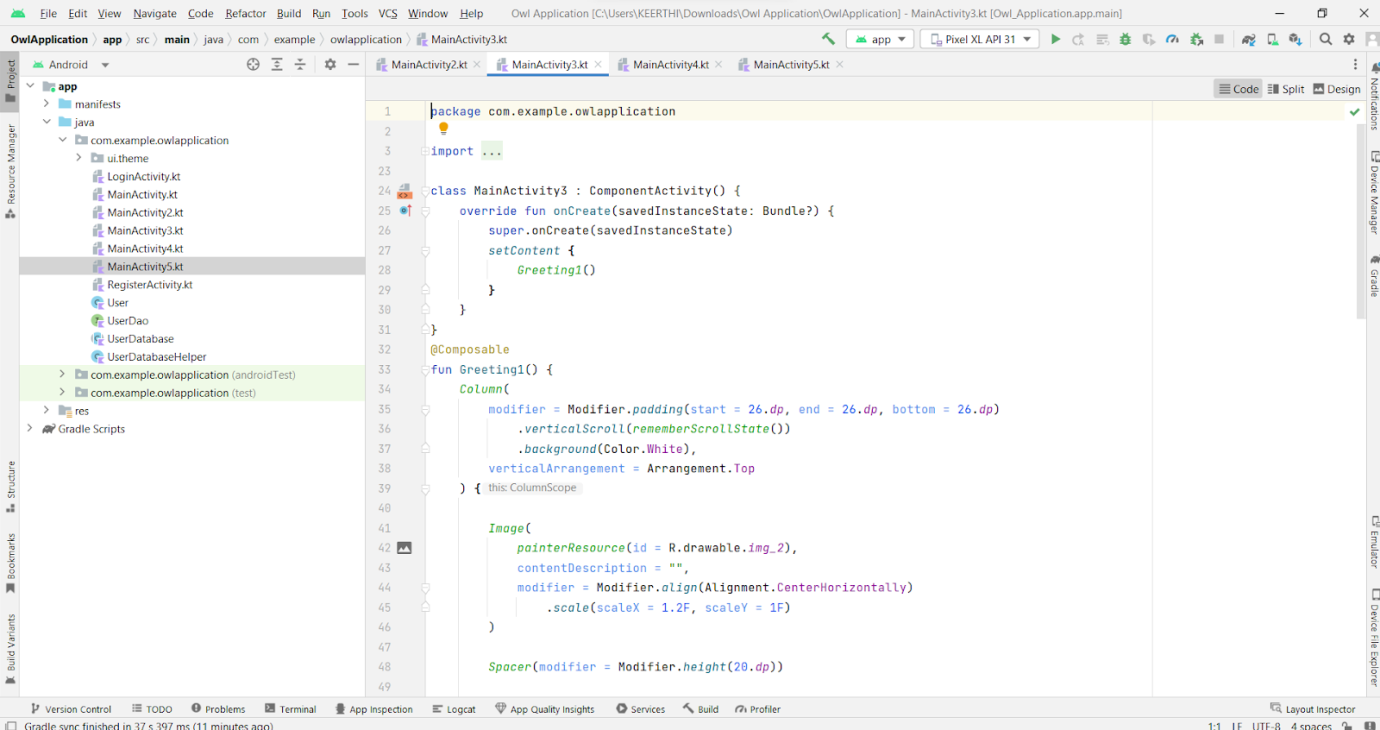
### Creating MainActivity3.kt file

Creating MainActivity3.kt file





MainActivity3.kt file

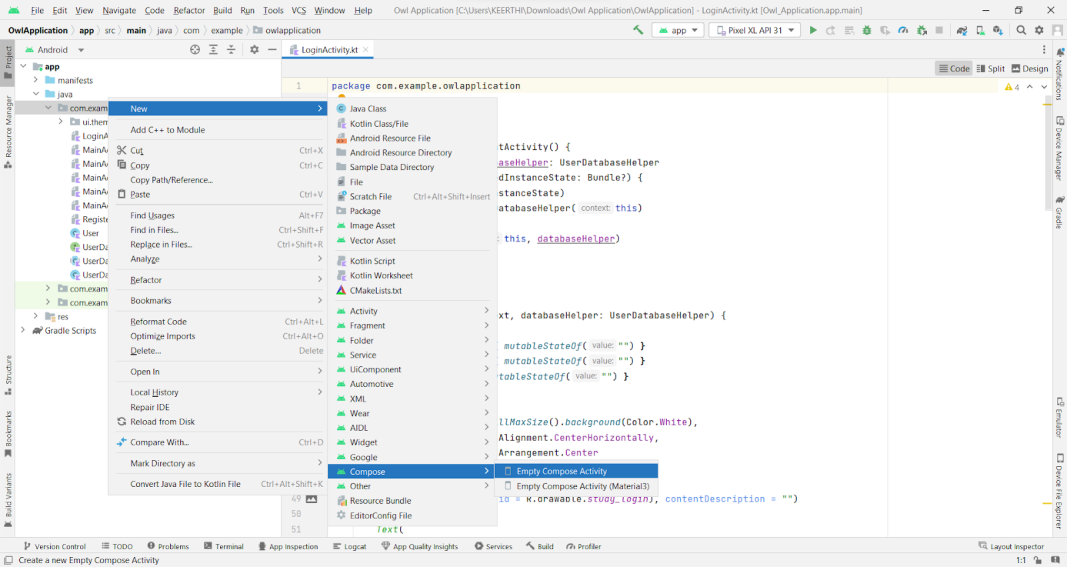


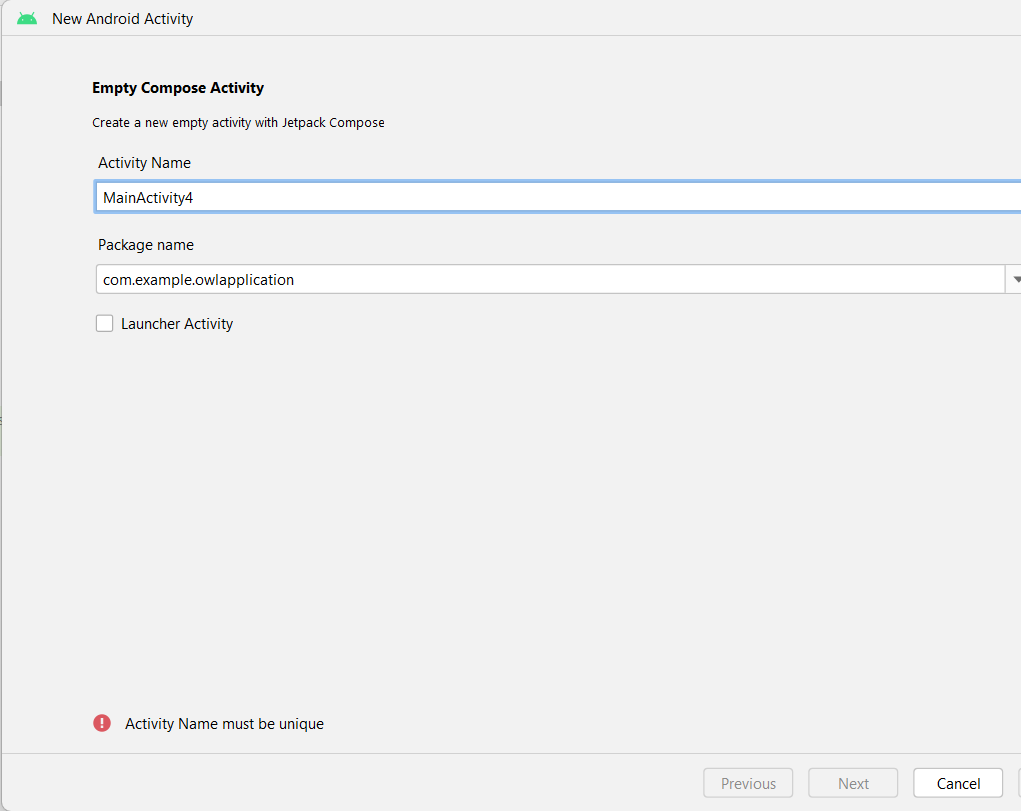
Complete code in below link:

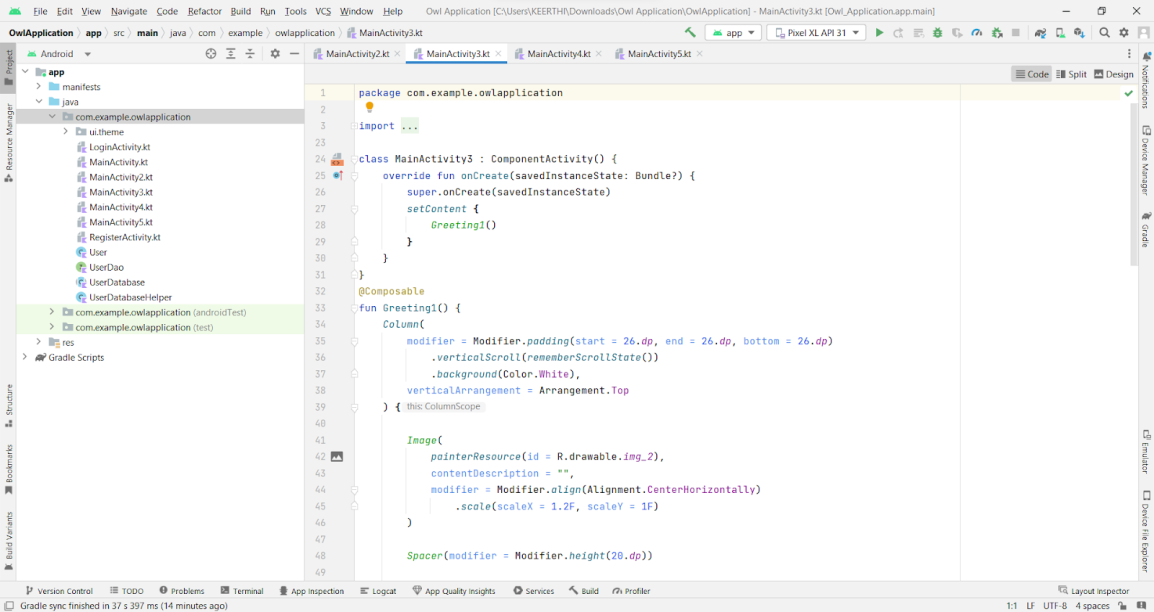
<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/MainActivity3.kt>

### Creating MainActivity4.kt file

Creating MainActivity4.kt file





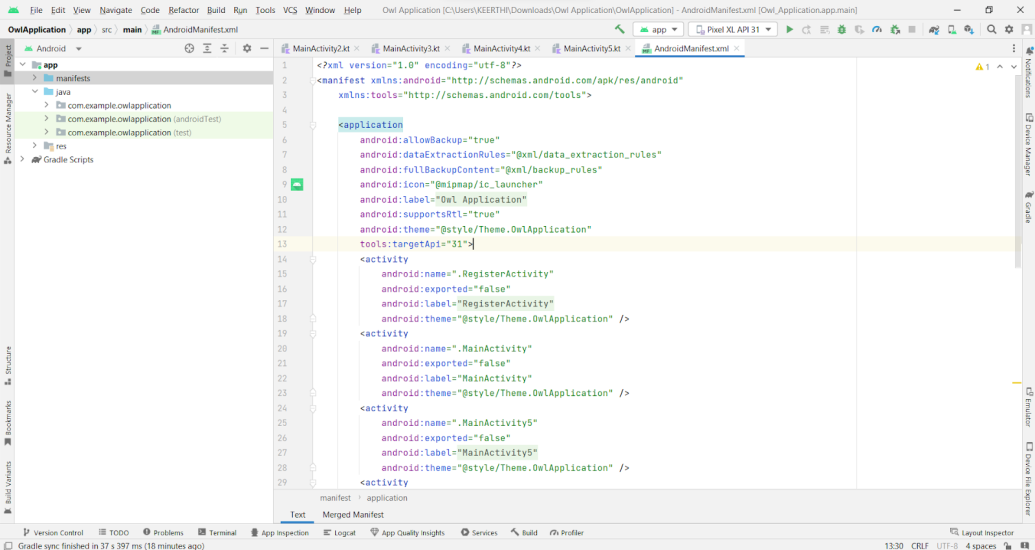


Complete code in below link:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/tree/main/app/src/main/java/com/example/owlapplication/MainActivity4.kt>

### Modifying AndroidManifest.xml

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



Complete AndroidManifest.xml code:

<https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App/blob/master/app/src/main/AndroidManifest.xml>

### Running the application

This milestone explains about running the application.

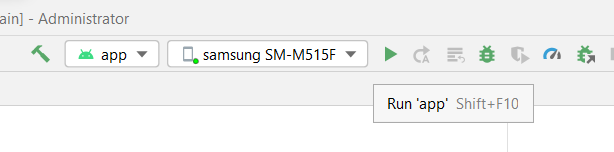
### Run apps on a hardware device

Run apps on a hardware device

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

### Run the application in Mobile

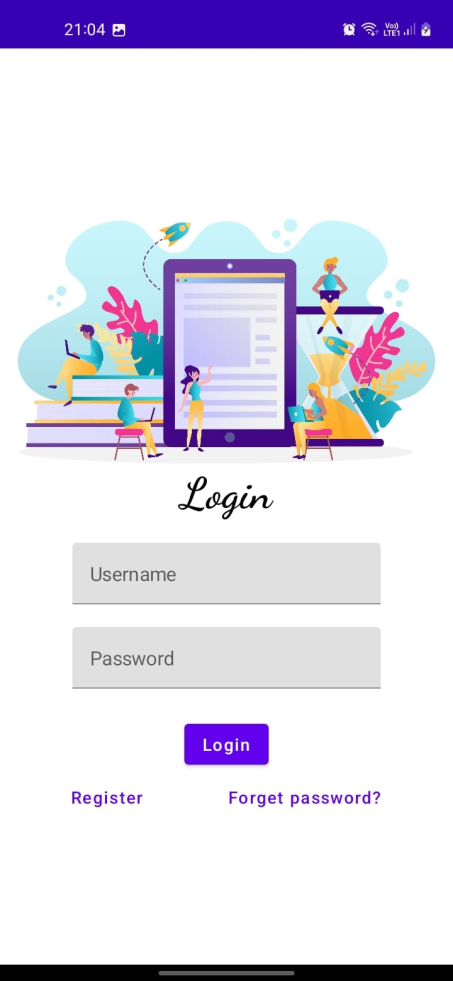
Run the application in Mobile



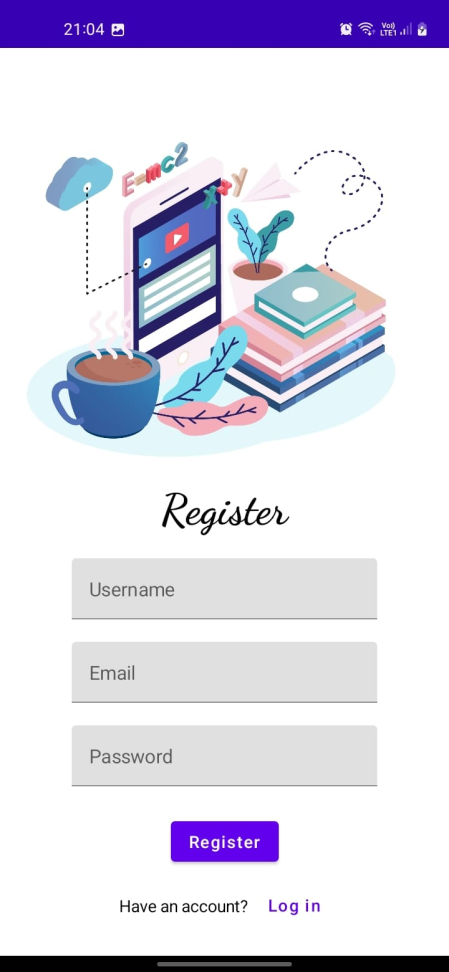
Complete Project Link: <https://github.com/smartinternz02/Owl-M-A-Material-Design-Study-App>

Final Output of the Application :

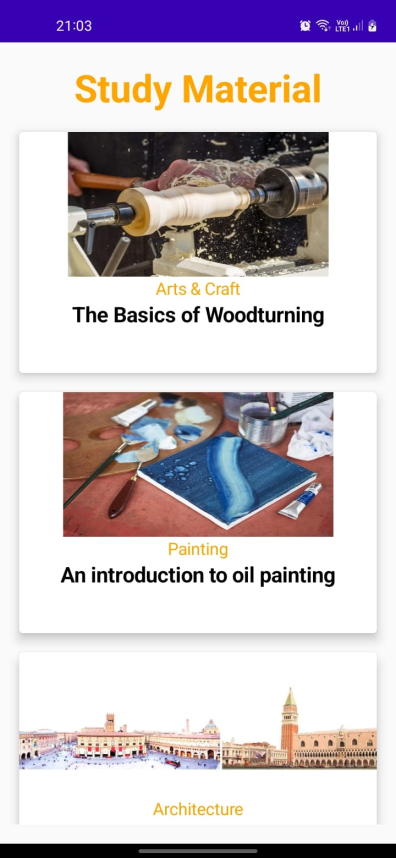
Login Page :



RegisterPage :



MainPage :



Book page :

