



Wanderlust: A Personalized Travel Planning and Tracking App

Project Experiential Learning Python

Done by:

P. Sandhya Sri

S. Kishore

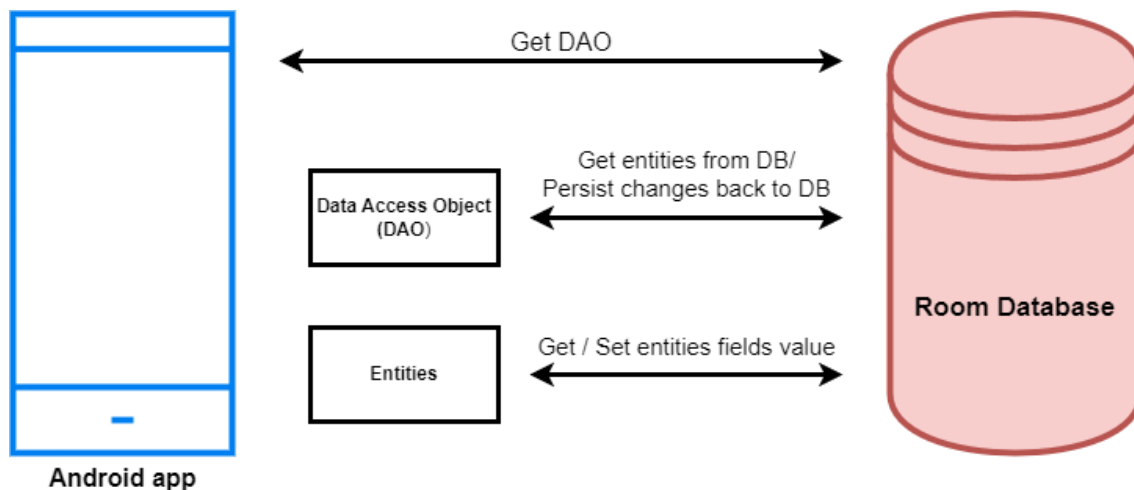
Y. Nethaneyalu

P. Ajay kumar

Wanderlust: A Personalized Travel Planning and Tracking App

A project built using the Android Compose UI toolkit. It demonstrates how to create a simple travel app using the Compose libraries. It also features a personalized feed of recommended accommodations based on the locations.

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 logs into the application.
- User enters into the main page

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.

Task 1:

Required initial steps :

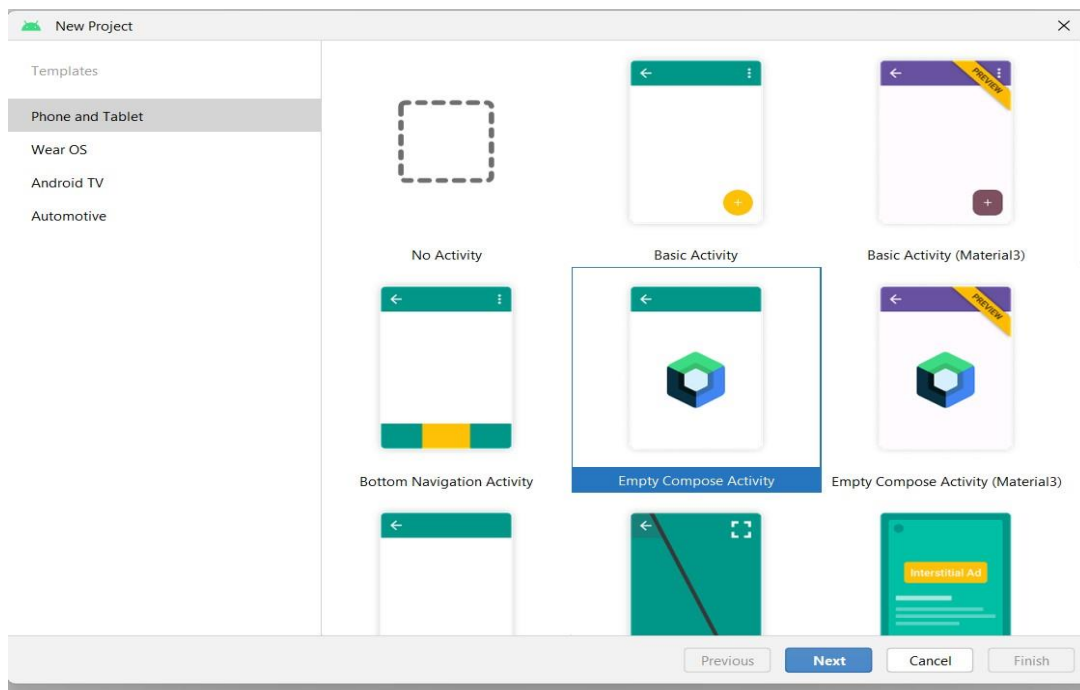
<https://developer.android.com/studio/install>

Task 2 :

Creating a new project.

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

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

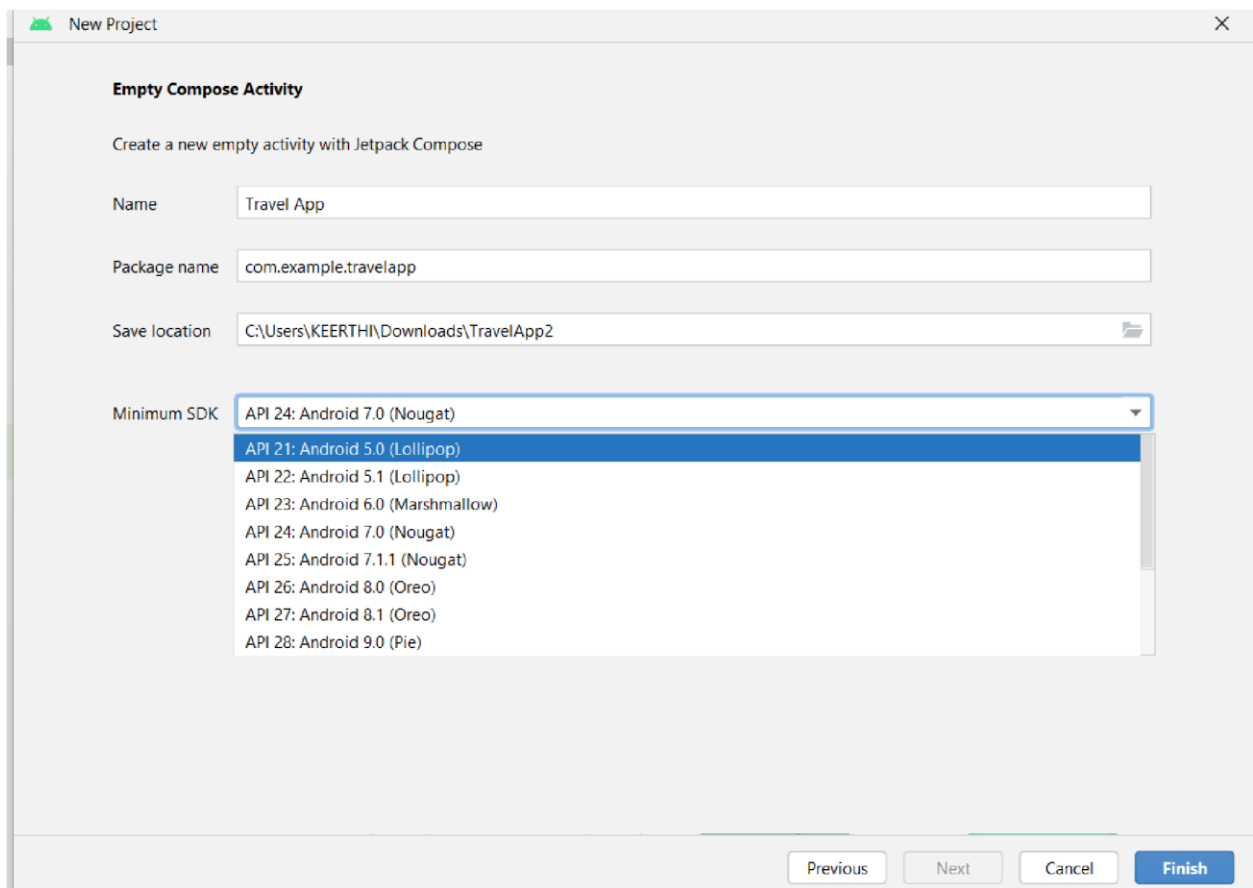


Step 3 :

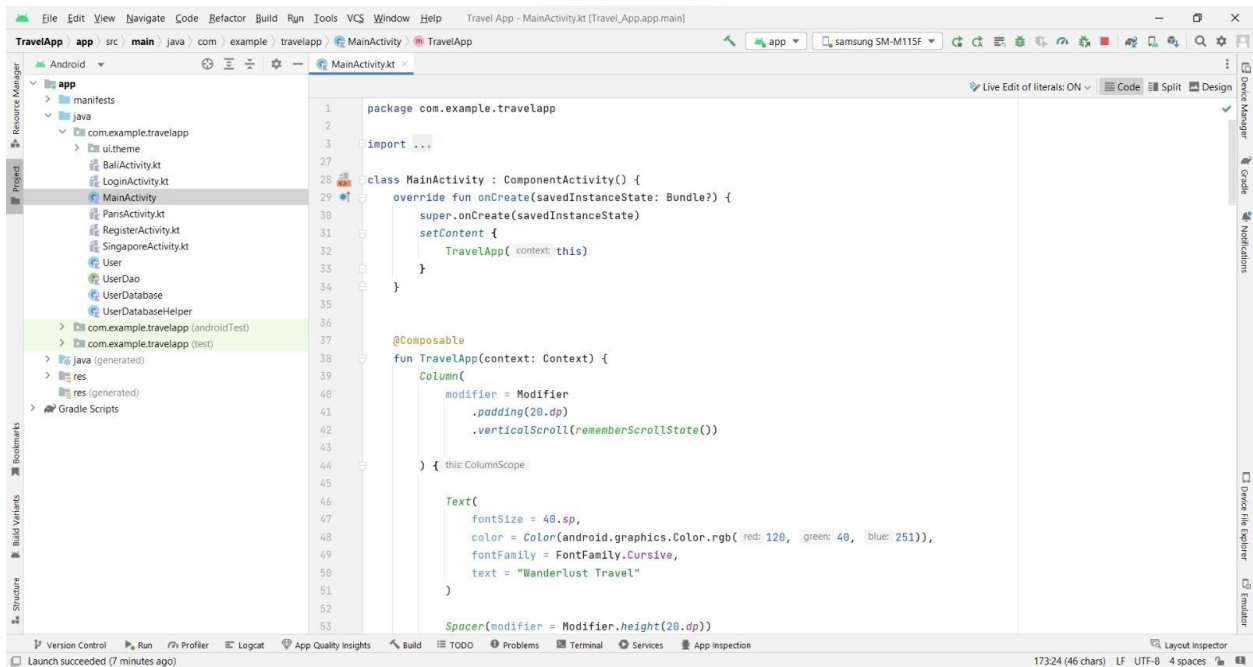
Give name to the new project.

Step 4 : Give the Minimum SDK value

Step 5 : Click Finish



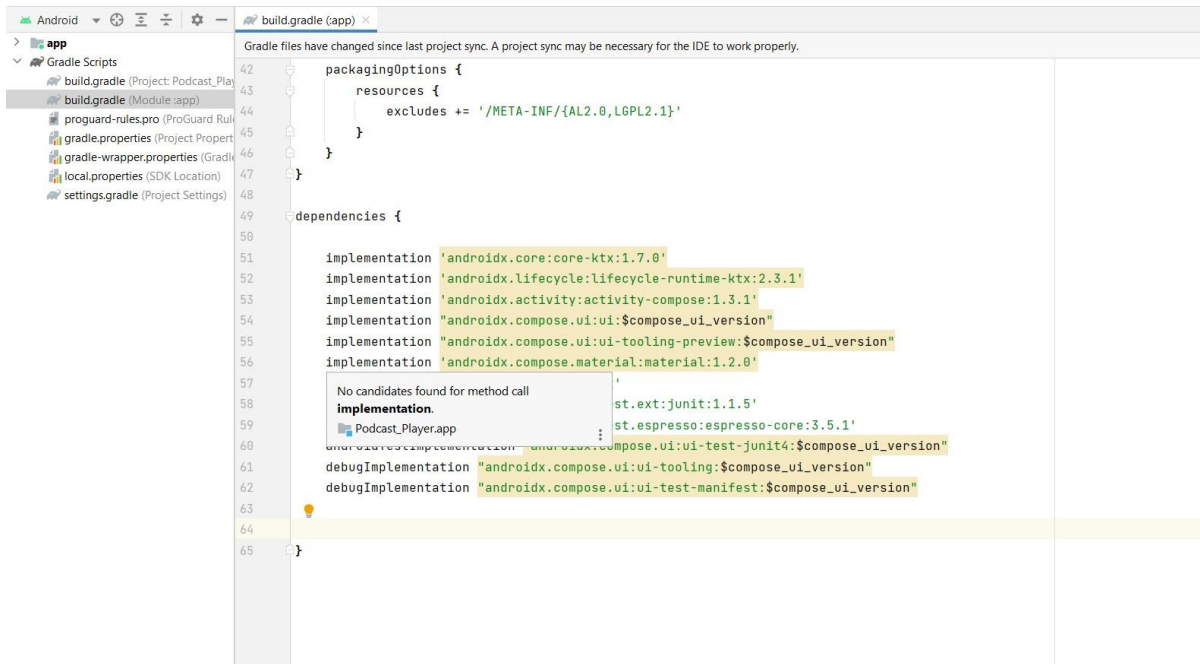
Main activity file



Task 3 :

Adding required dependencies.

Step 1 : Gradle scripts > build.gradle(Module :app)



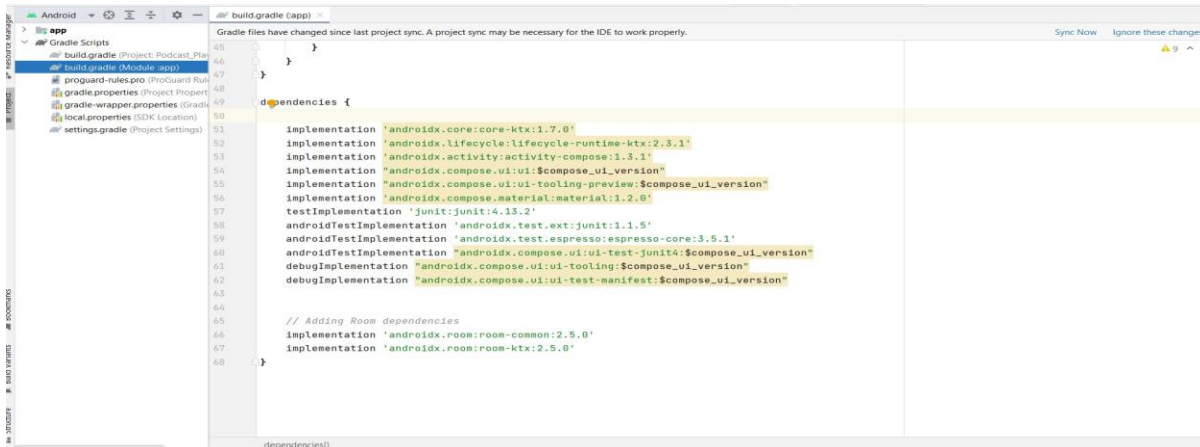
Step 2 : Adding room dependencies.

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'

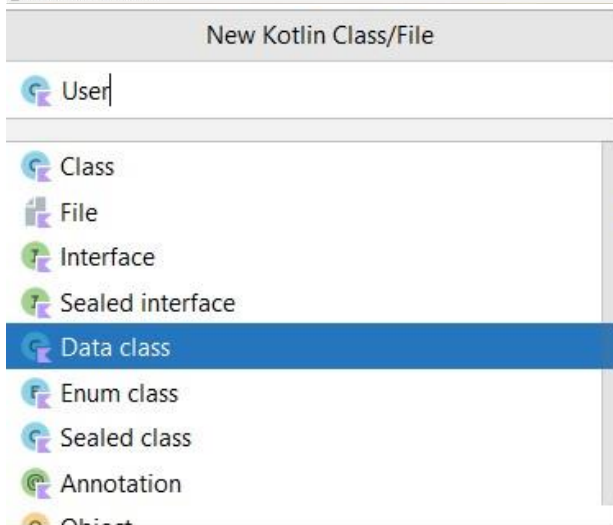
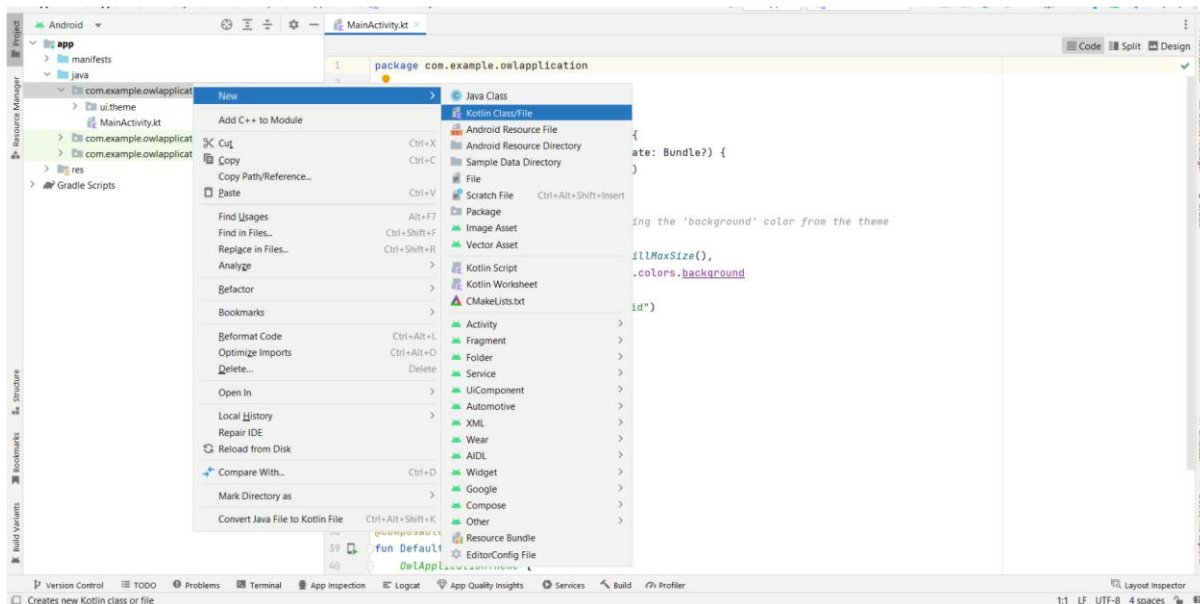


Step 3 : Click on Sync now

Task 4:

Creating the database classes.

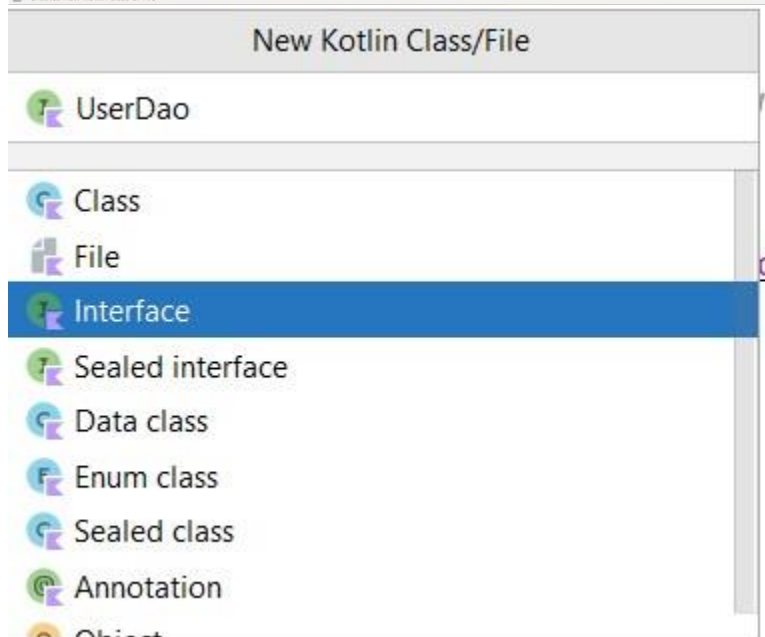
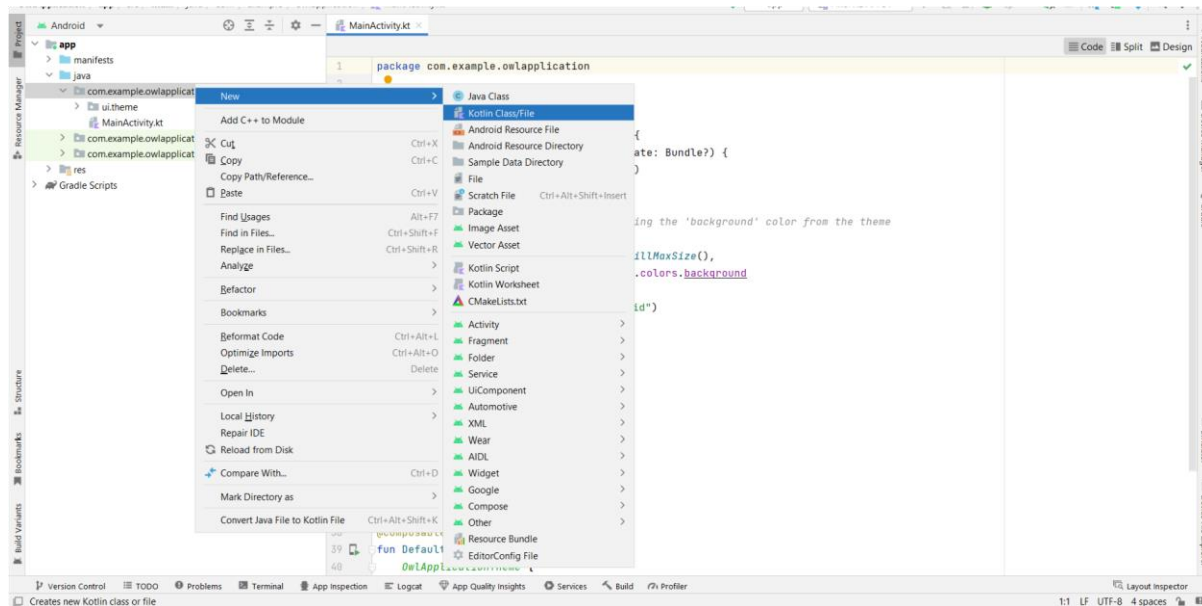
Step 1 : Create User data class



User data class code:

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/User.kt>

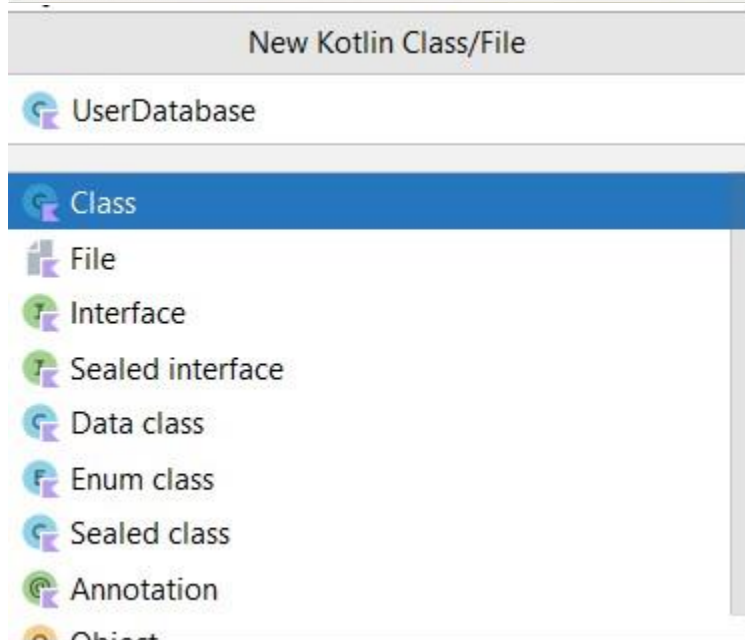
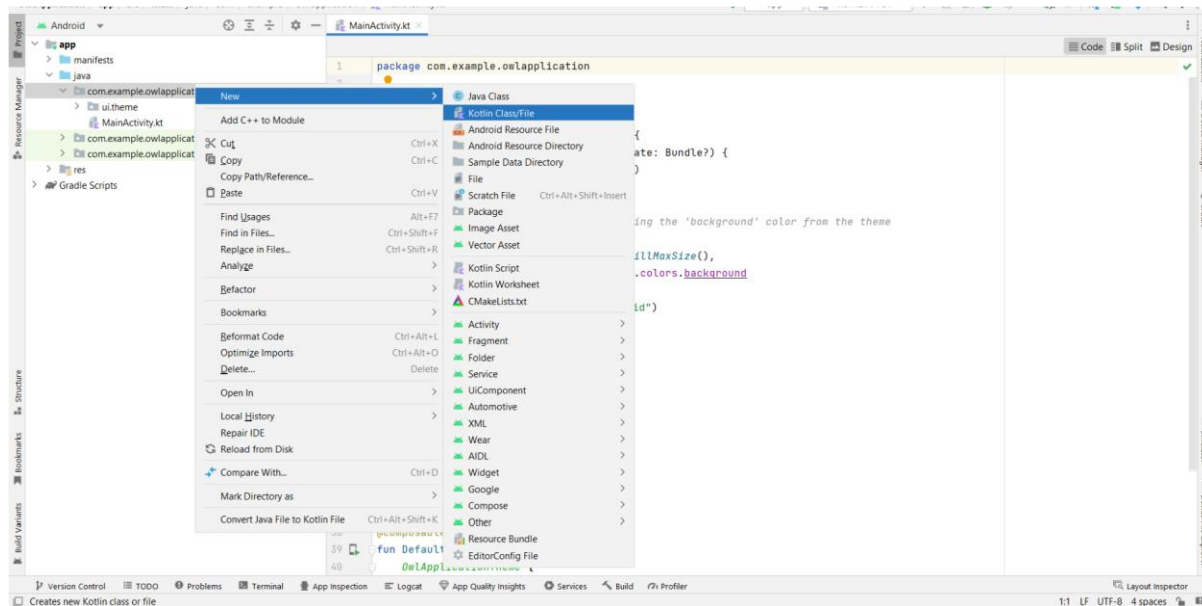
Step 2 : Create an UserDao interface



UserDao interface code :

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/UserDao.kt>

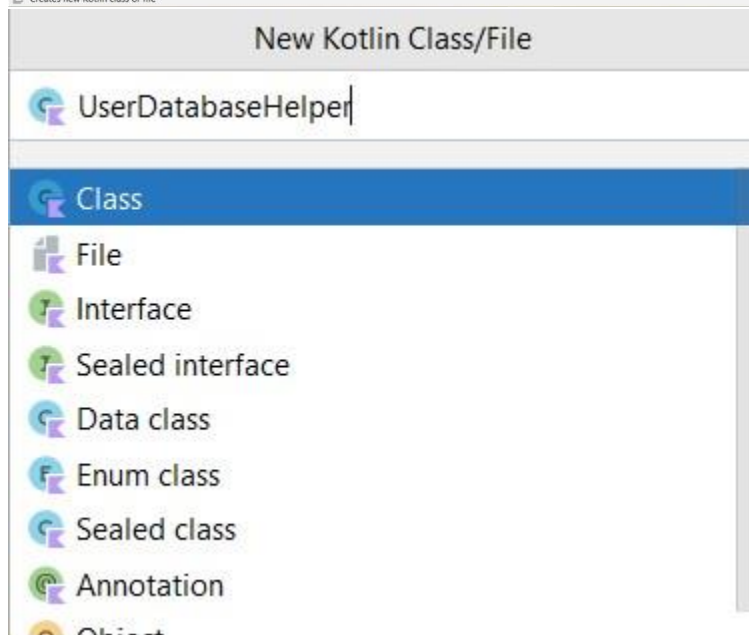
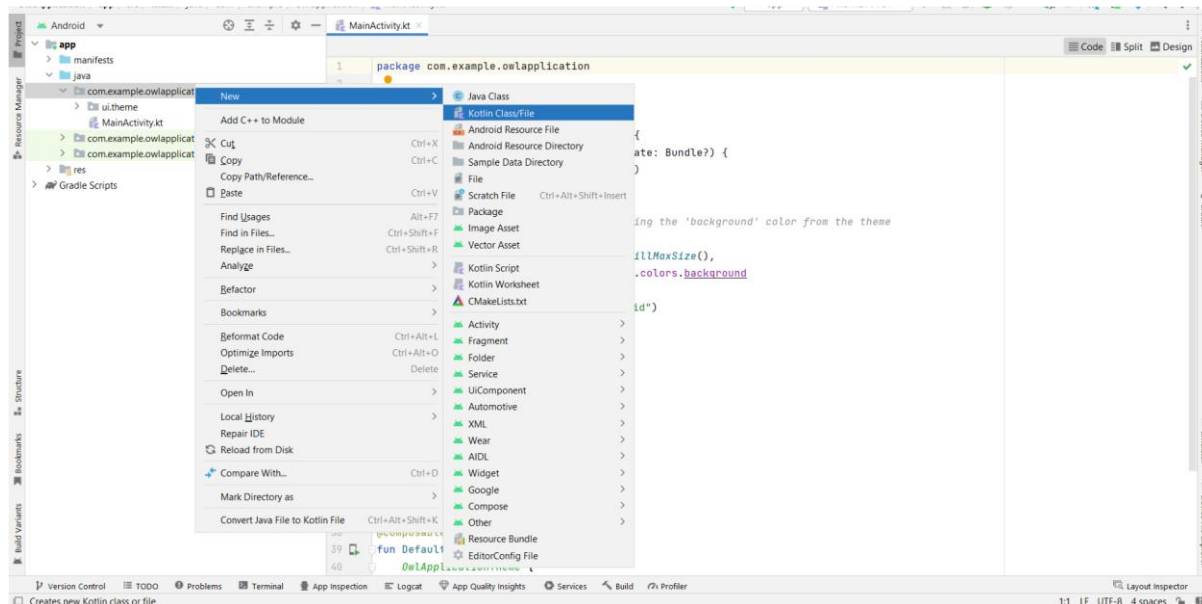
Step 3 : Create an UserDatabase class



UserDatabase class code :

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/UserDatabase.kt>

Step 4 : Create an UserDatabaseHelper class



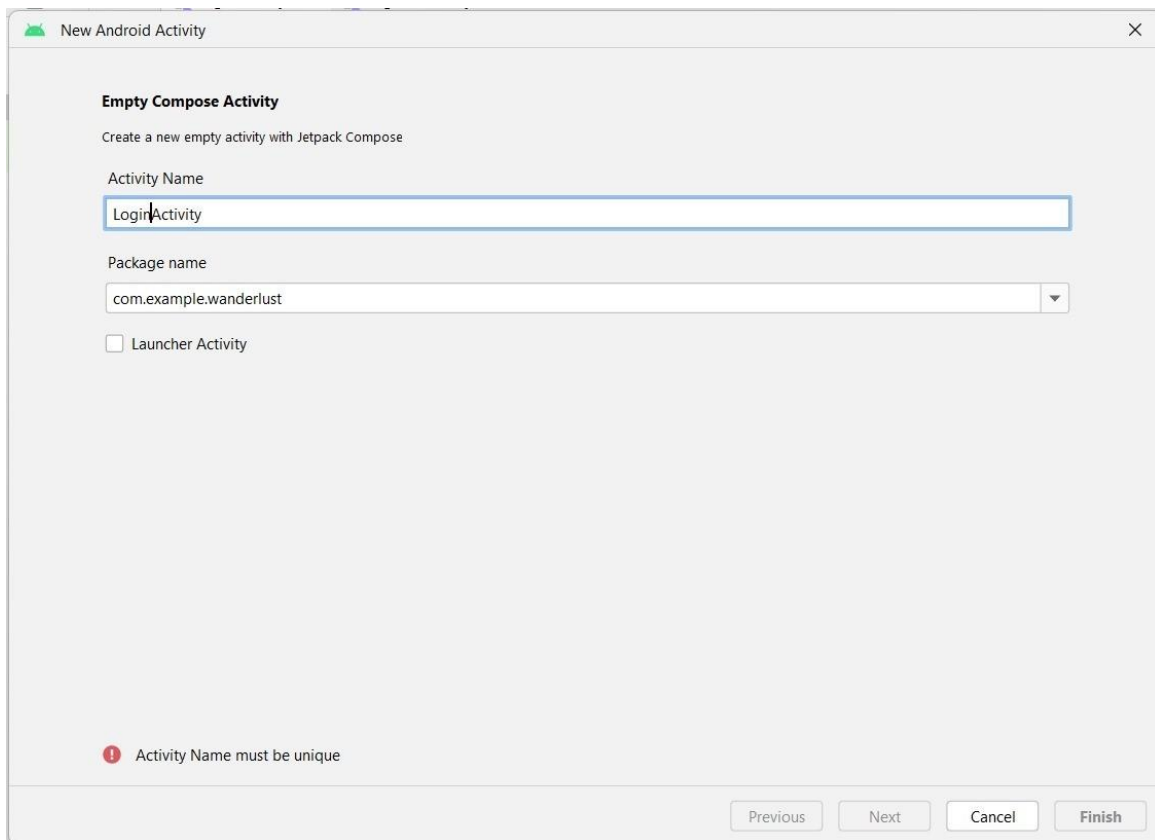
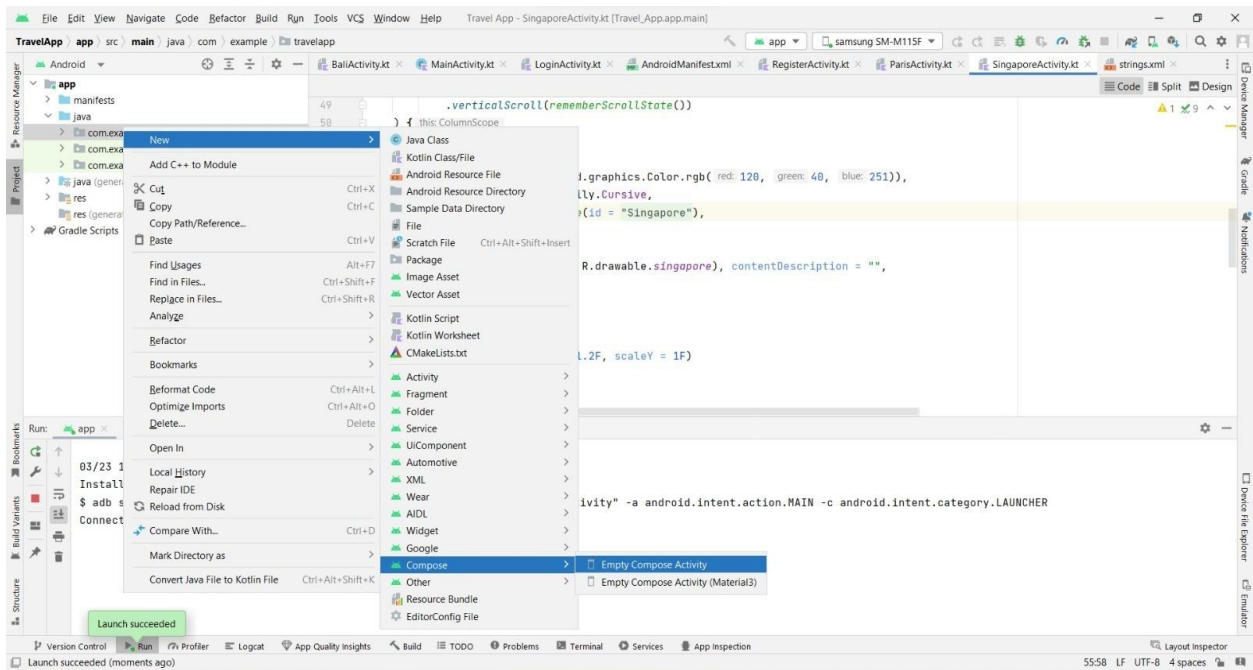
UserDatabaseHelper class code :

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/UserDatabaseHelper.kt>

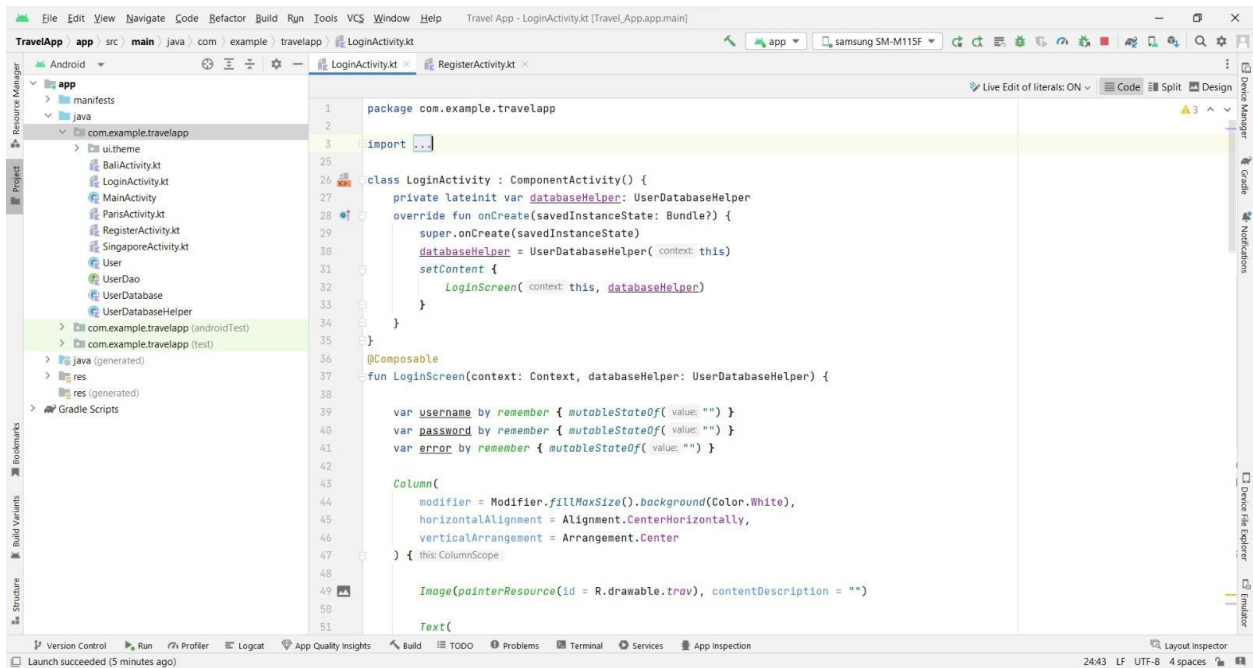
Task 5:

Building application UI and connecting to database.

Step 1: Creating LoginActivity.kt with database



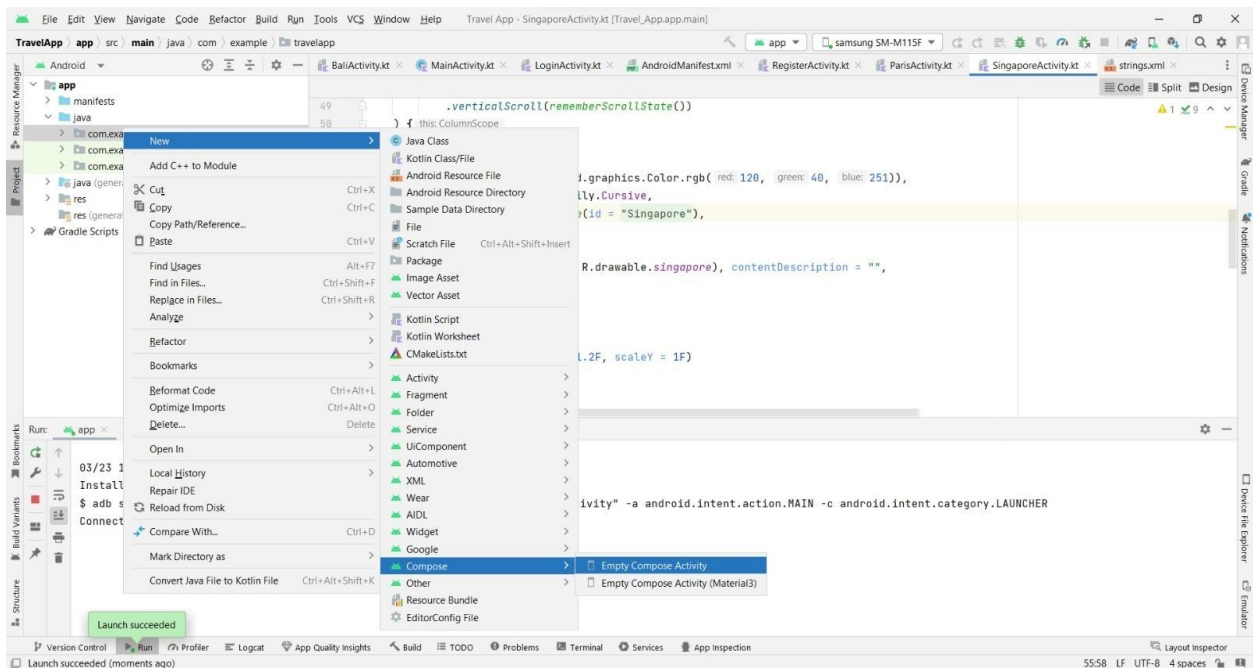
Database connection in LoginActivity.kt

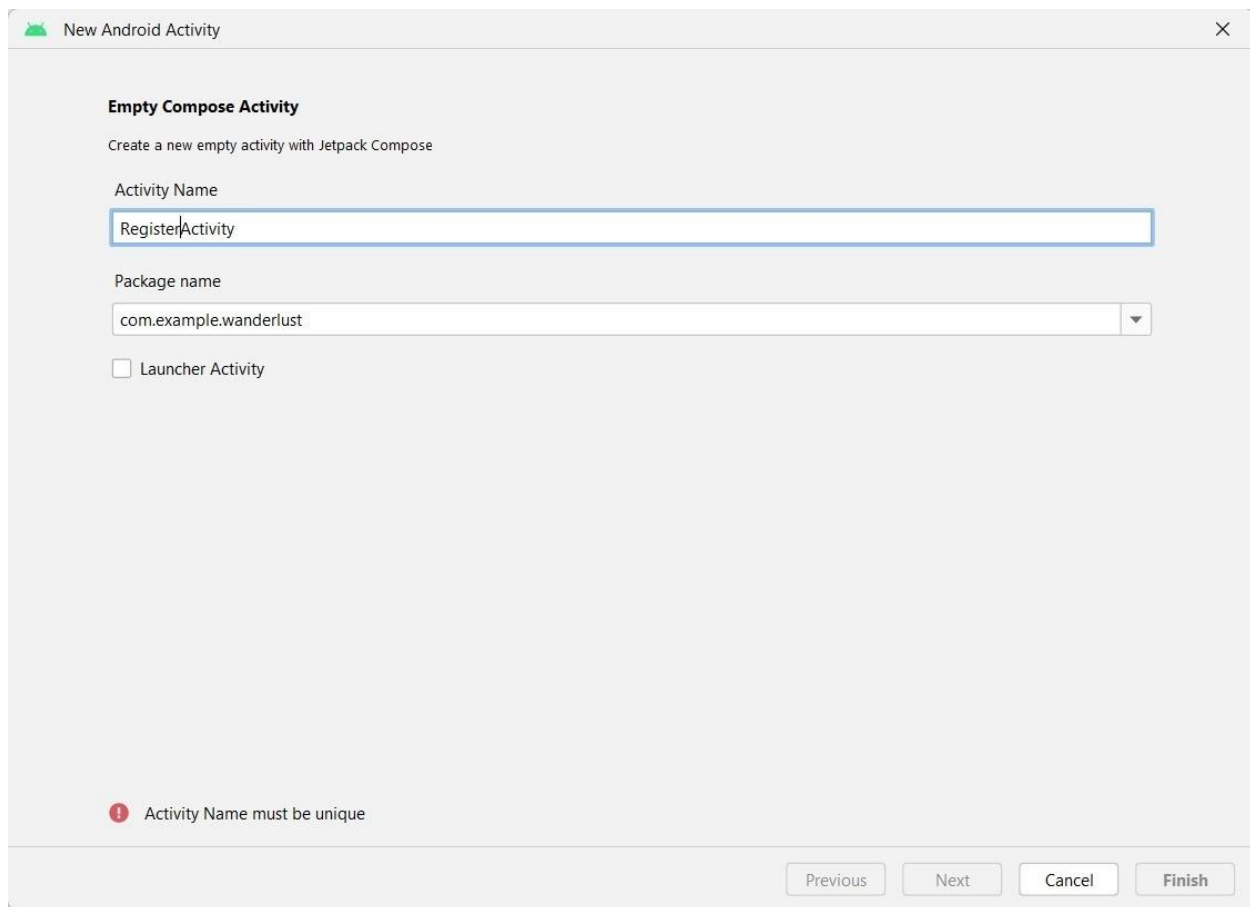


Complete code in below link:

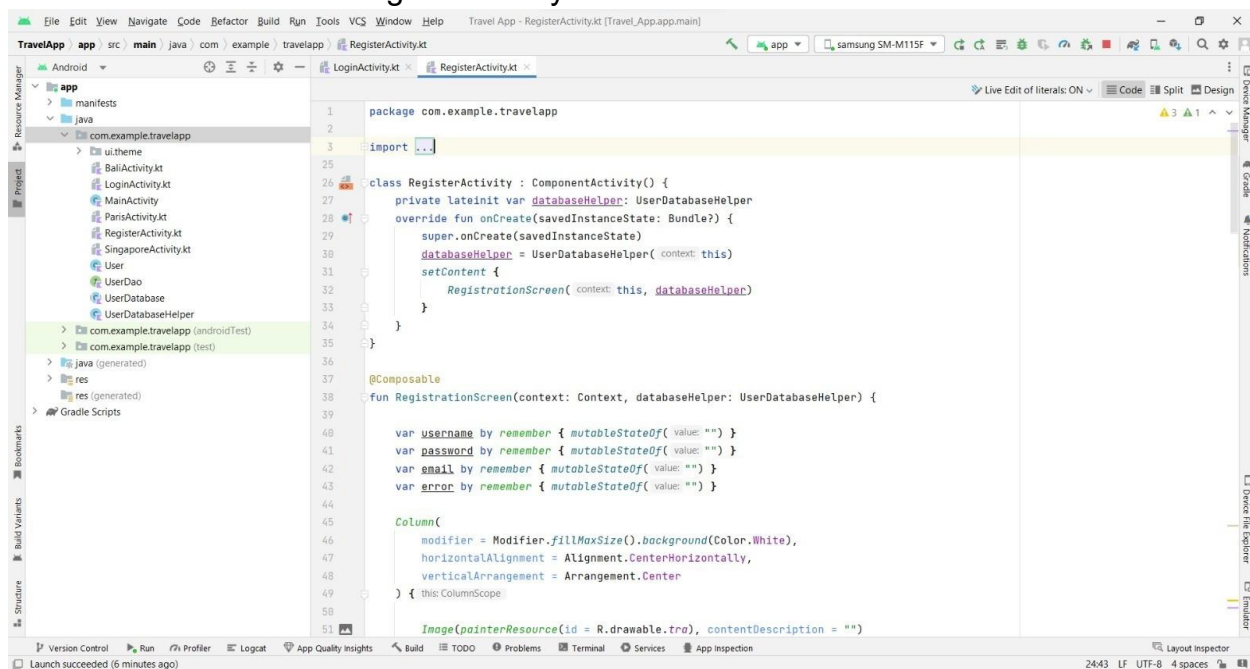
<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/LoginActivity.kt>

Step 2 : Creating RegisterActivity.kt with database





Database connection in RegisterActivity.kt

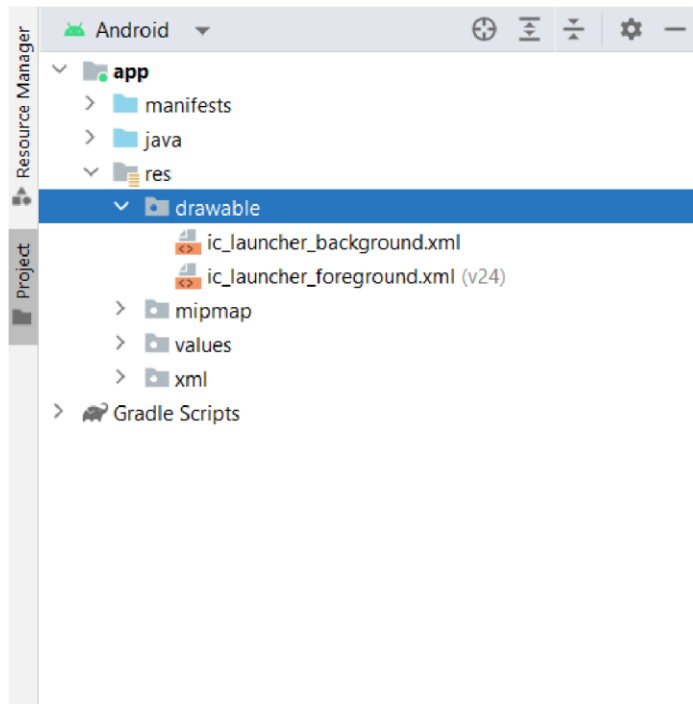


Complete code in below link: <https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/RegisterActivity.kt>

Step 3 : Creating MainActivity.kt file

In MainActivity.kt file the main application is developed

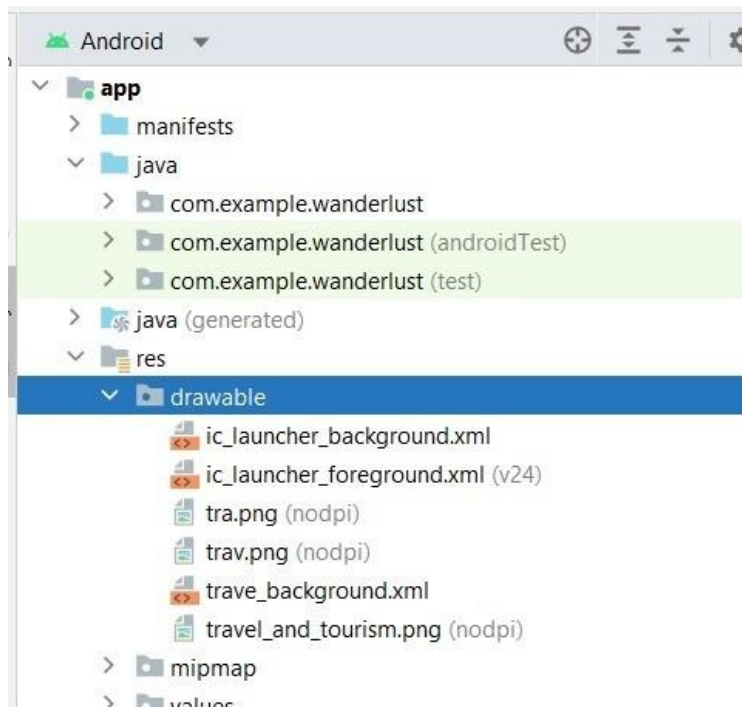
- Before creating UI we need to add some images in drawables which are in res



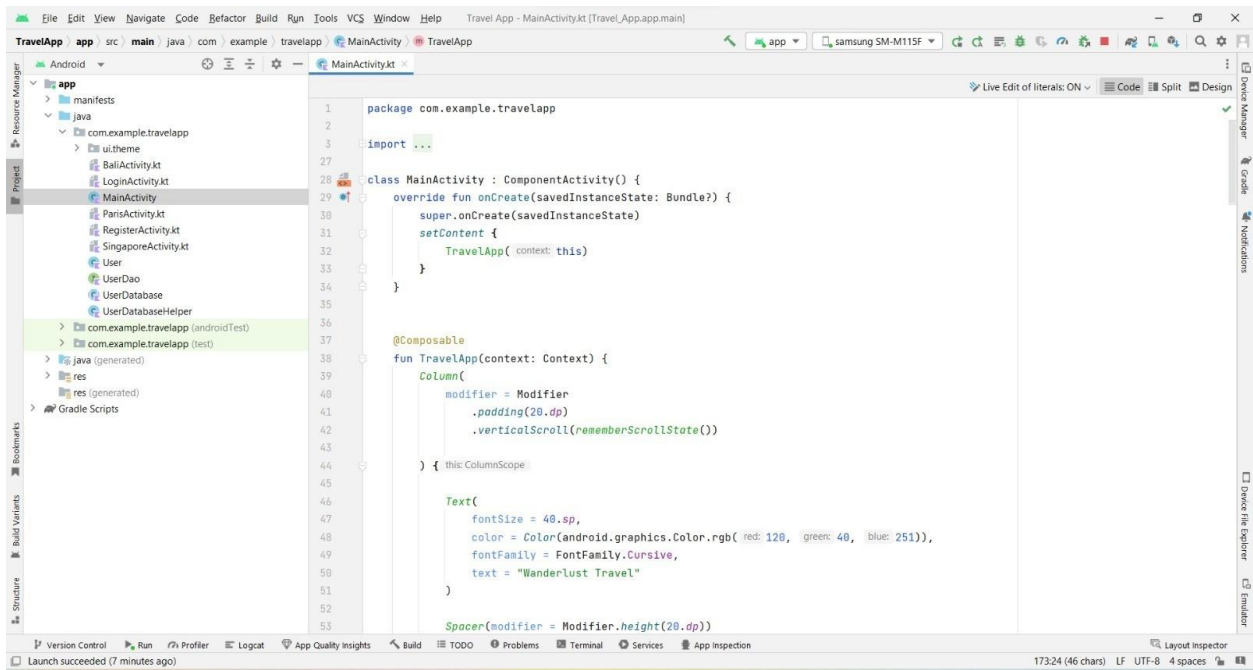
Download the required drawable from the code:

<https://github.com/smartinternz02/Travel-Plan-App/tree/master/app/src/main/res/drawable-le-nodpi>

<https://github.com/smartinternz02/Travel-Plan-App/tree/master/app/src/main/res/drawable-le>



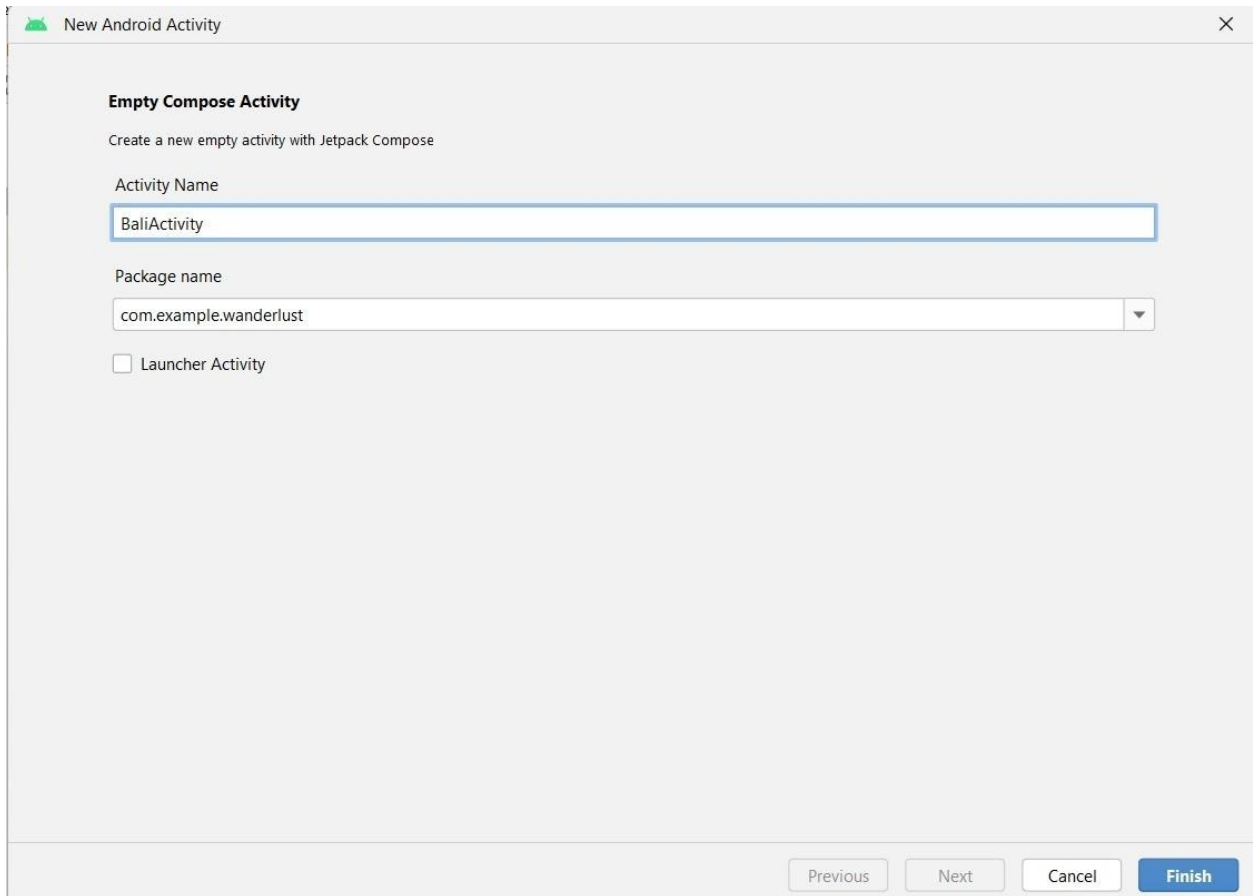
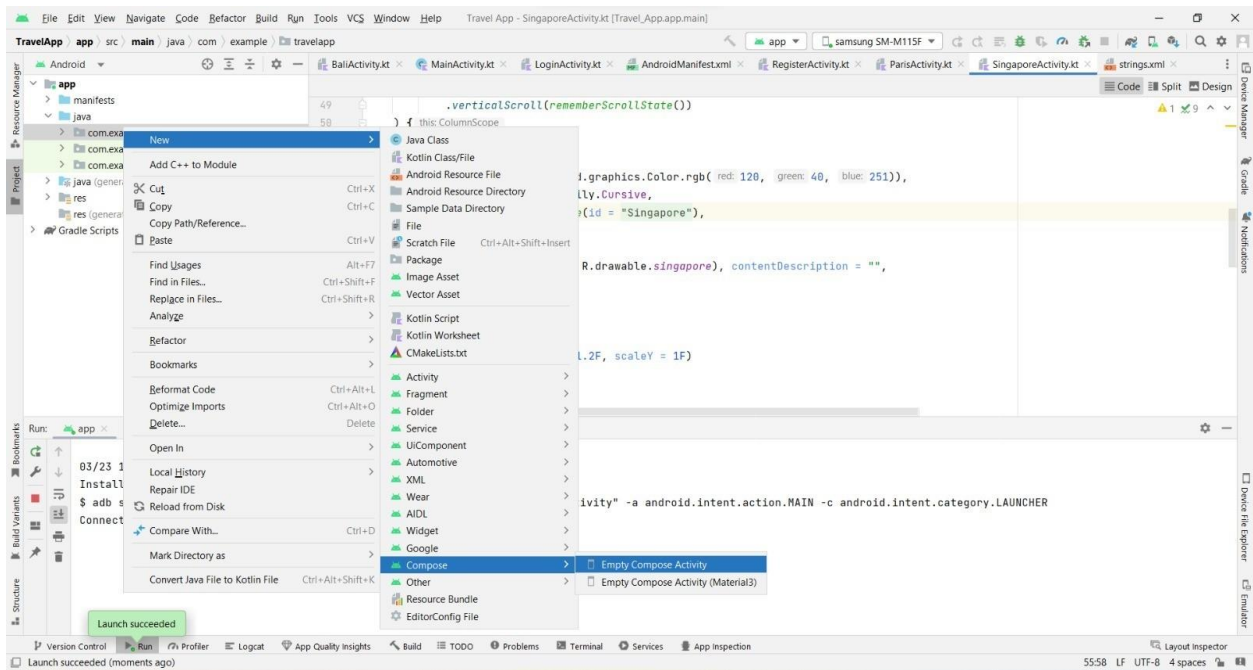
MainActivity.kt



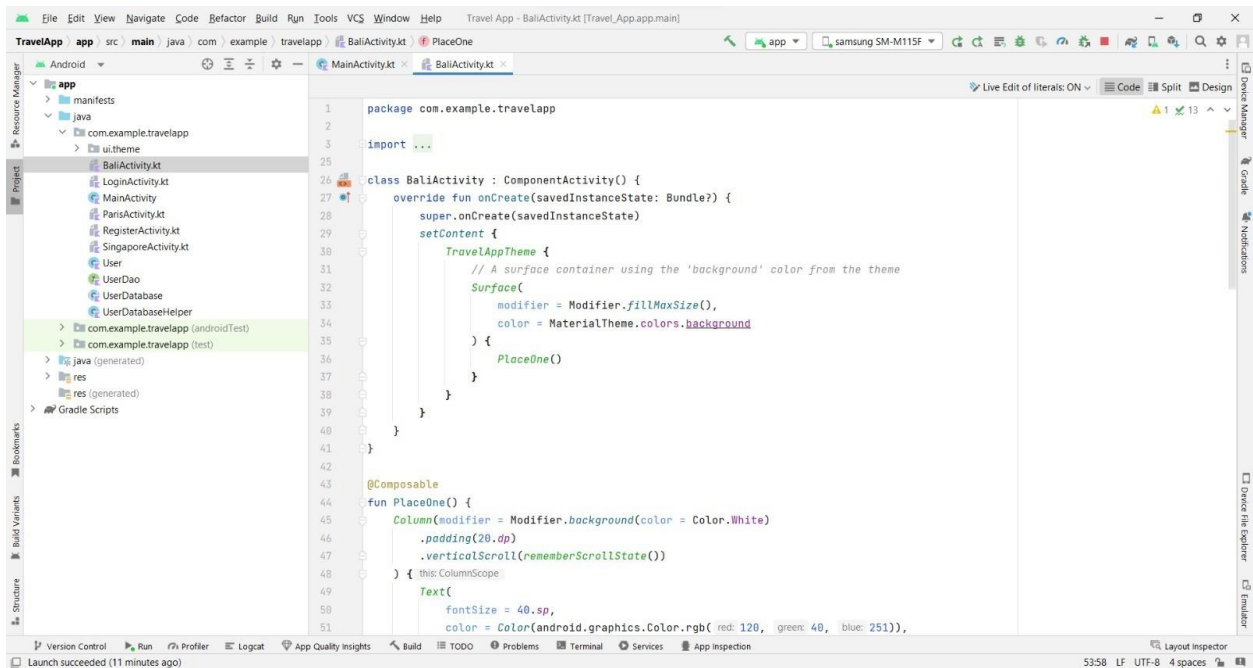
Complete code in below link:

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/MainActivity.kt>

Step 4 : Creating BaliActivity.kt file



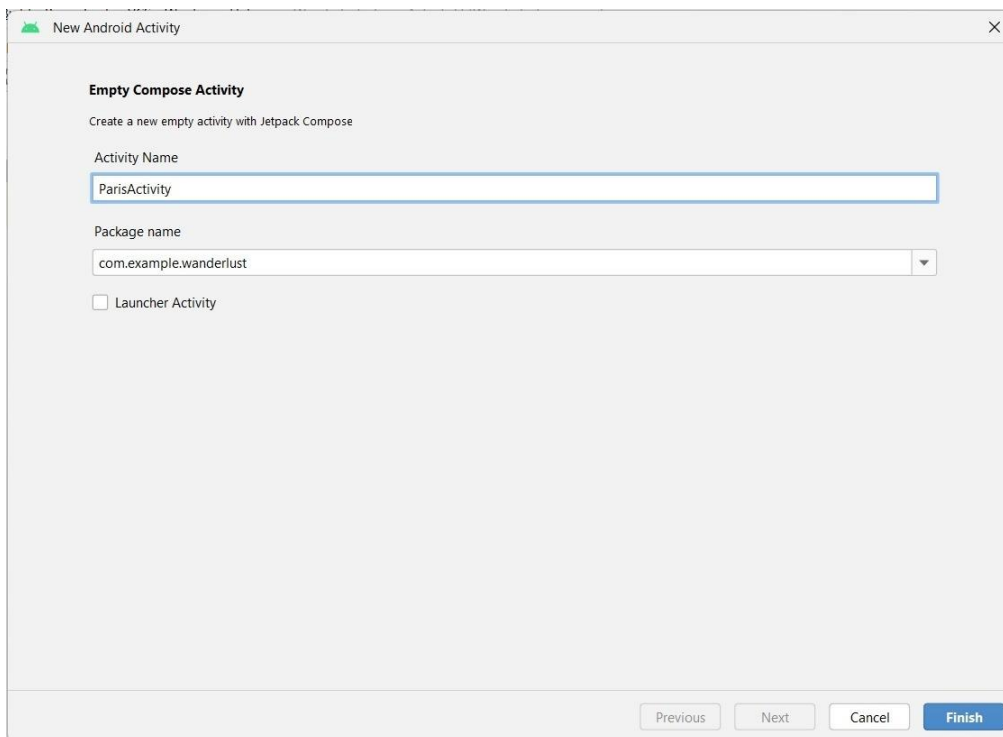
BaliActivity.kt



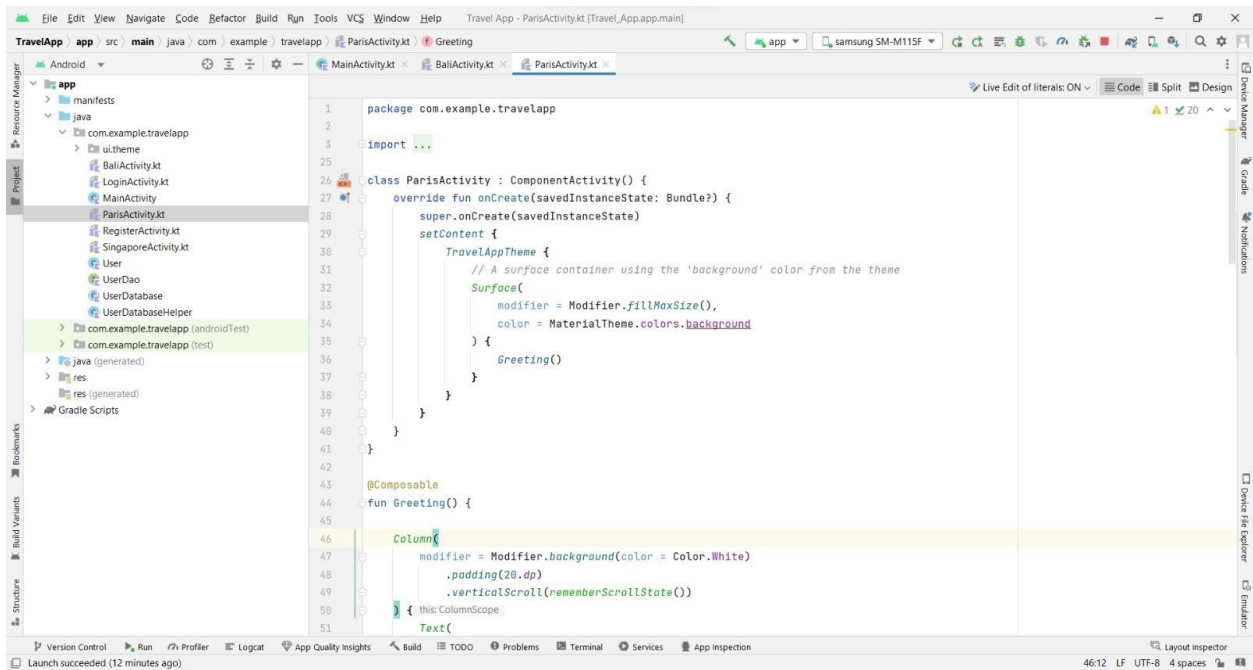
Complete code in below link:

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/BaliActivity.kt>

Step 5 : Creating ParisActivity.kt file



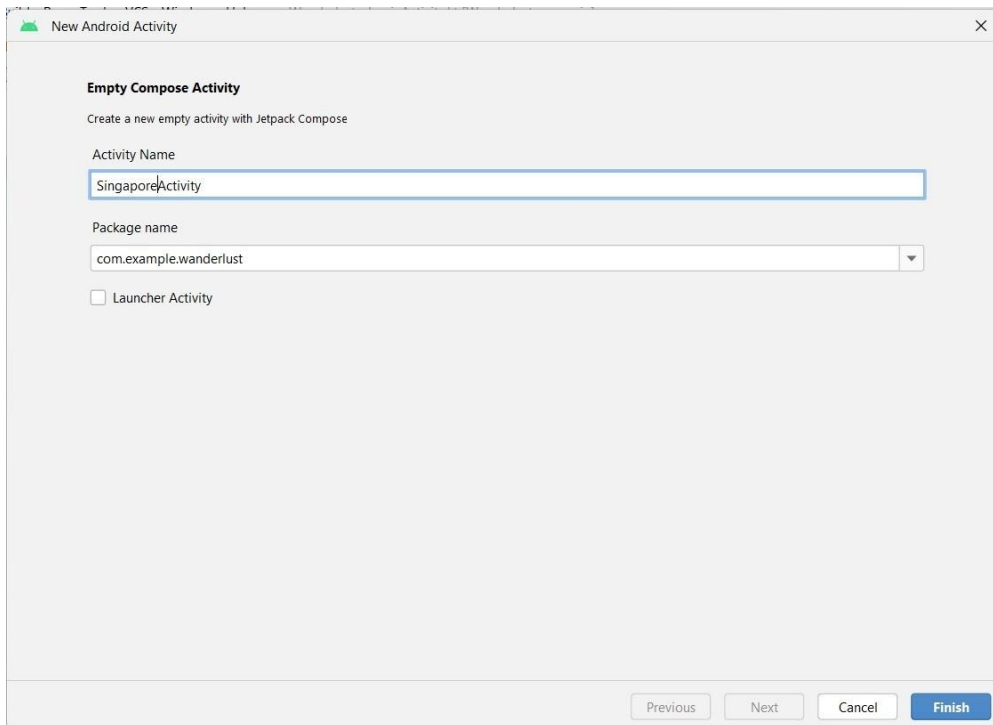
ParisActivity.kt file



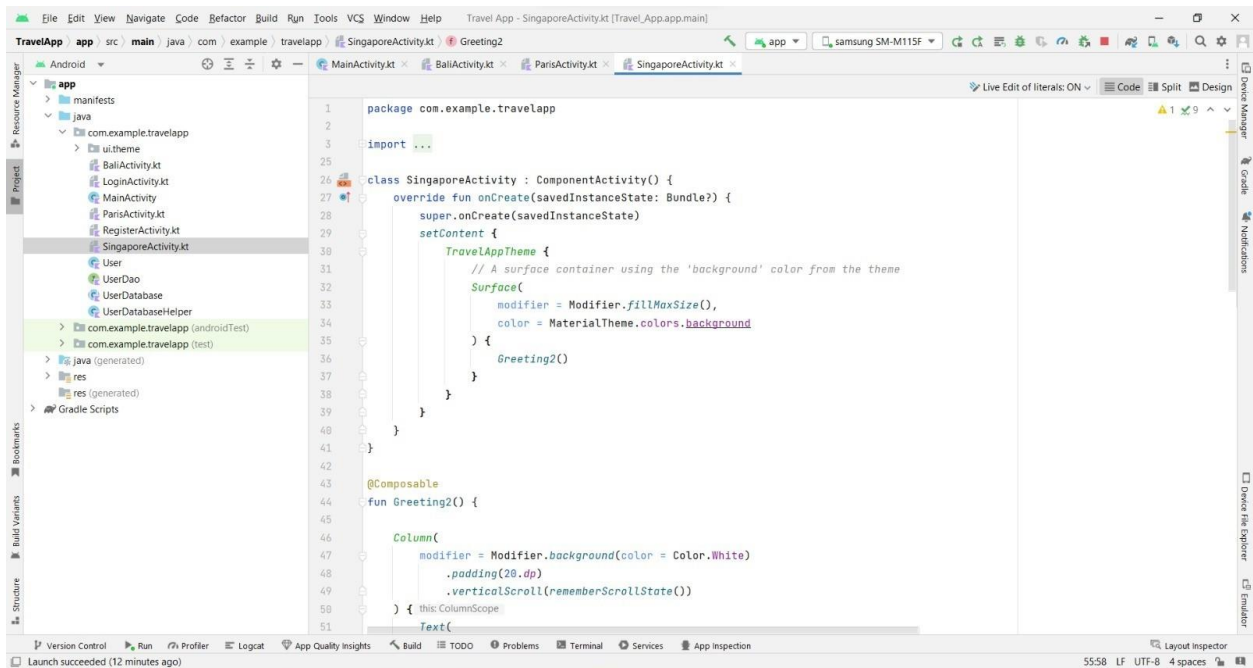
Complete code in below link:

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/ParisActivity.kt>

Step 6 : Creating SingaporeActivity.kt file



SingaporeActivity.kt file

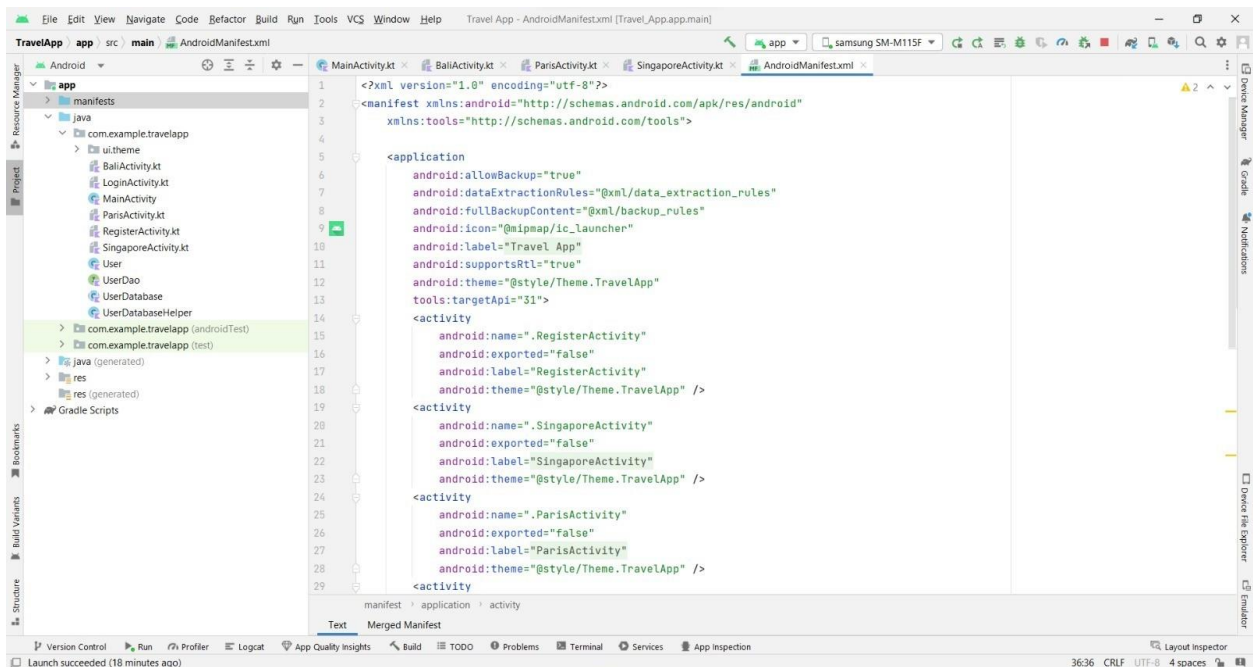


Complete code in below link:

<https://github.com/smartinternz02/Travel-Plan-App/blob/master/app/src/main/java/com/example/travelapp/SingaporeActivity.kt>

Task 6:

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

Final Output of the Application :

Login Page :



Login

[Register](#) [Forget password?](#)

RegisterPage :



Register

Register

Have an account? [Log in](#)

MainPage :

Wanderlust Travel



Bali

Super saver pack with less than \$10000
7days/2persons



Paris

Super saver pack with less than \$10000
7days/2persons



Singapore

Location Page:

Bali



Day 1: Arrival and Relaxation

Arrive in Bali and check into your hotel or accommodation.

Spend the day relaxing and getting acclimated to the island.

If you have time, explore the nearby area or head to the beach.

Day 2: Ubud Tour

Start your day early and head to Ubud, a cultural and artistic hub in Bali.

Visit the Monkey Forest and the Ubud Palace.

Take a tour of the Tegalalang Rice Terrace, a beautiful UNESCO World Heritage Site.

End your day with a traditional Balinese dance performance.

Day 3: Temple Hopping

Visit some of Bali's most famous temples, such as Tanah Lot and Uluwatu.

Take in the stunning views of the ocean and cliffs.

Enjoy a sunset dinner at one of the many restaurants near the temples.

