

A CUSTOMIZABLE SNACK ORDERING AND DELIVERY APP

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PROJECT DESCRIPTION

SnackMate is your go-to app for ordering personalized snacks delivered right to your door! Choose from a vast selection of snacks, ranging from savory chips and crispy nuts to sweet candies and healthy fruits, all customizable to fit your cravings. Simply browse, customize, and order your favorite snacks with ease.

SnackMate lets you mix and match flavors, add toppings, and choose portion sizes for a truly unique snack experience. With features like dietary filters for vegan, gluten-free, or nut-free options, SnackMate ensures everyone can find their perfect snack. Save your favorite snacks for quick reorders, track your deliveries in real-time, and earn rewards with every purchase.

Whether you're looking for an express delivery or planning ahead for a gathering, SnackMate has flexible delivery options to suit your schedule. Download SnackMate today and bring the snack bar to your fingertips!

Required Initial Steps:

Step 1.:Download Android Studio: - Visit the official Android Studio download page:

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

- Review and accept the terms and conditions if prompted.
- The download will begin automatically.

Step 2.:Install Android Studio:

For Windows:

- ❖ Run the installer: Double-click the downloaded .exe file.
- ❖ Follow the installation wizard:
- ❖ Choose installation options (use default settings unless you have specific preferences).
- ❖ Android Studio requires a minimum of 4 GB of RAM (recommended 8 GB), and a screen resolution of at least 1280x800.
- ❖ Install Android SDK: The installer will automatically install the Android SDK, Android Emulator, and other necessary tools.
- ❖ Complete installation: Click Finish once the process is complete.
- ❖ Follow the setup wizard: Android Studio will guide you through the rest of the installation.

Step3: First Launch and Setup:

- ❖ Choose UI Theme**: Select between Light or Dark theme.
- ❖ Install SDK Components**: Android Studio will download necessary SDK components (such as the latest Android platform and tools). This might take some time, depending on your internet speed.

Step 4: Configure Android Studio:

- ❖ -Install additional SDK packages: You might need to install certain packages depending on your Android development needs (e.g., specific Android API versions or system images for the emulator).
- ❖ Set up the Android Emulator: If you plan to use the Android Emulator for testing, you can set it up through the AVD (Android Virtual Device) Manager.

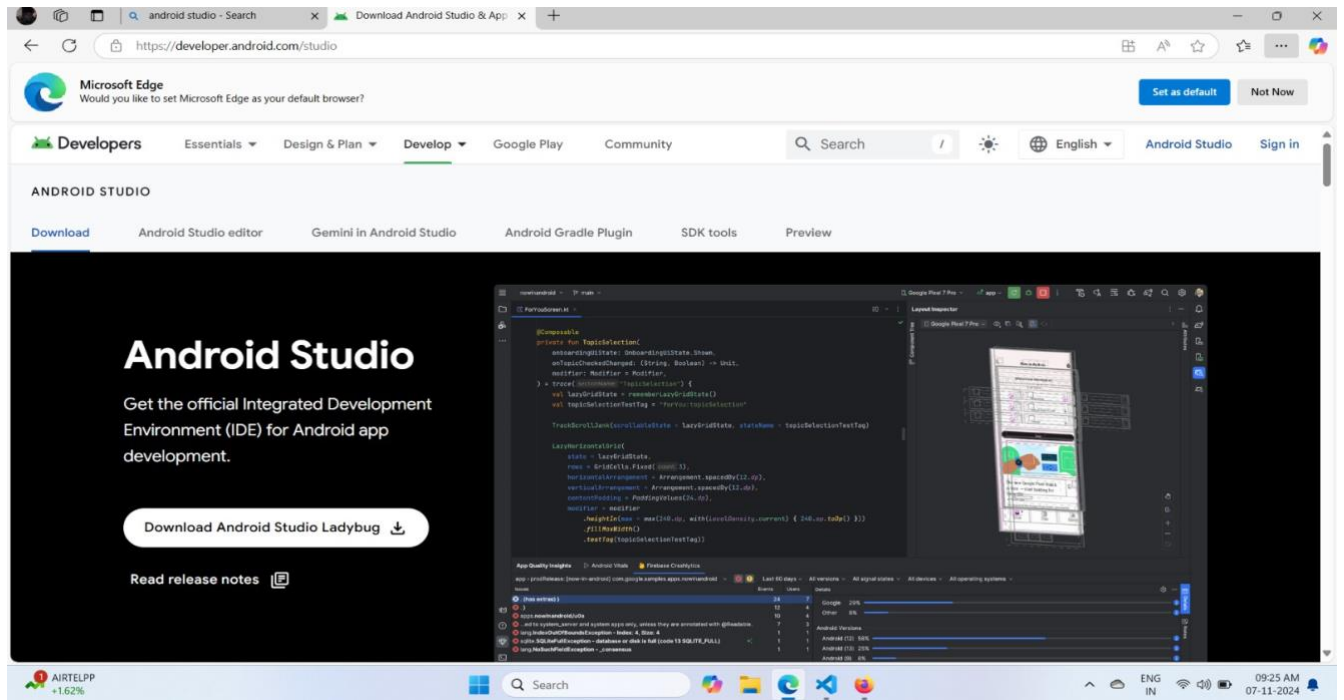
Step5: Verify Installation:

- ❖ Go to File → New → New Project.
- ❖ Choose a template (e.g., Empty Activity).
- ❖ Configure the project (e.g., name, package name).
- ❖ Click Finish.

Step6: Install Android Device/SDK Drivers (If needed):

- ❖ You have enabled USB debugging on the device (Settings → About phone → Tap Build number 7 times to unlock developer options → Developer options → Enable USB debugging).
- ❖ You may need to install specific drivers for your device (especially on Windows).

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Creating New Project:

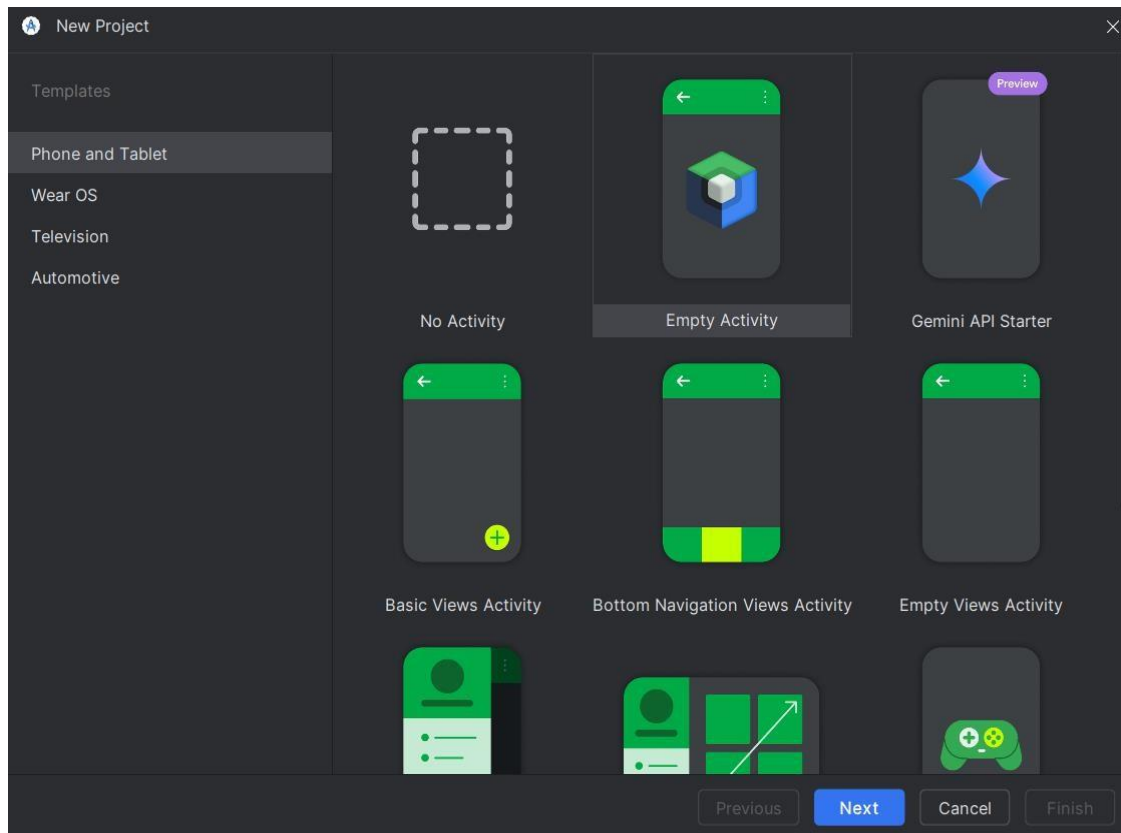
Step1: Open Android Studio:

Launch Android Studio on your computer.

Step2:Start a New Project:

On the welcome screen, click "Start a new Android Studio project".

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Step3:Configure Your Project:

- ❖ Name: Enter your app's name.
- ❖ Package Name: Enter a unique identifier (e.g., ``com.example.myapp``).
- ❖ Language: Choose between Java or Kotlin.
- ❖ Minimum SDK: Choose the lowest Android version your app will support.

Step4:Choose a Template:

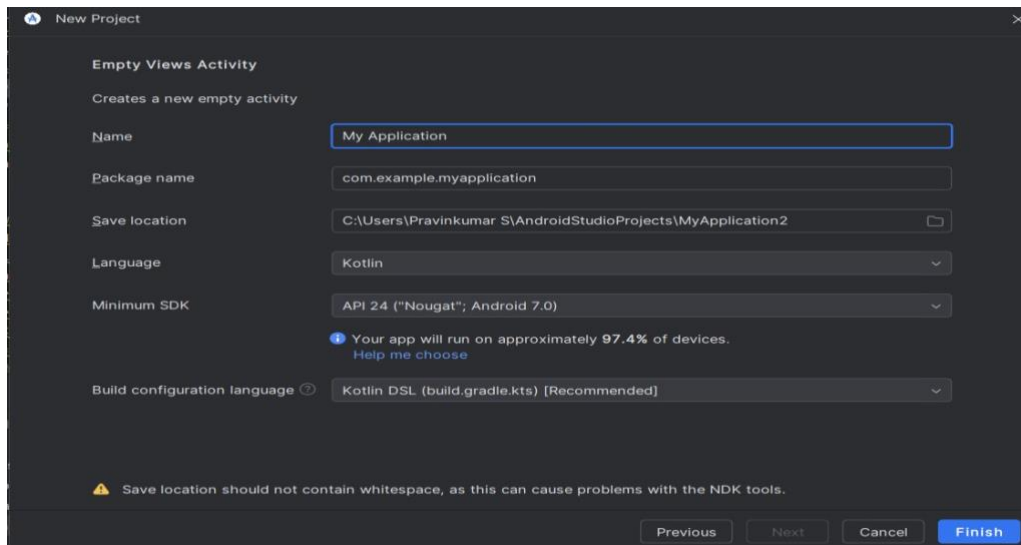
Select a project template (e.g., “Empty Activity”for a simple starting point), then click “Next”.

Step5: Configure Activity:

- ❖ Activity Name: Default is ``MainActivity`` (you can change it).
- ❖ Layout Name: Default is ``activity_main.xml``.
- ❖ -Click “Finish”. Step6:Run the App:

Once the project is set up, click the “Run”button to launch the app on an emulator or a physical device

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ADD REQUIREMENTS DEPENDENCIES

1. Project-Level build.gradle (root-level)

This file is where you configure project-wide settings, dependencies for Gradle itself, and repositories that will be used for all modules.

2. App-Level build.gradle (module-level)

This file contains the configurations for the Android application module. It's where you specify your dependencies, Android-specific build options, and signing configurations.

- ### 3. Sync the Project

- Click on the Sync Now button that appears in the top right corner of Android Studio, or
- Go to File > Sync Project with Gradle Files to sync your changes.

This will fetch the necessary dependencies and sync the project.

4. Optional: Adding Repositories

You can add other repositories if you're using custom libraries. For example, you might add a repository in your allprojects section

5. Common Dependencies

Make sure you include essential dependencies for Android development:

- AndroidX Libraries: Most modern Android libraries are part of AndroidX (e.g., androidx.appcompat, androidx.core).
- Google Libraries: If you're using Firebase, Google Play services, or other Google libraries, you'll need to include them as well.

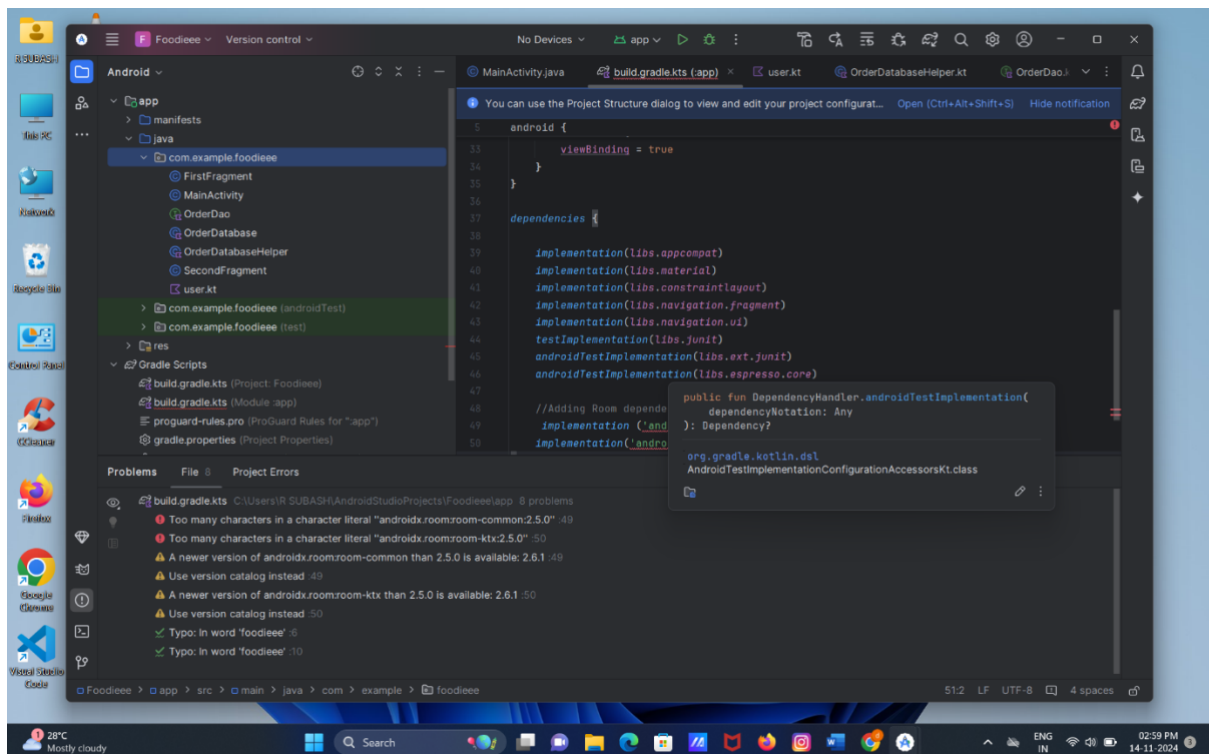
6. Gradle Version and Wrapper

- In case you need to update the version of Gradle or the Android Gradle Plugin, modify the `gradle-wrapper.properties` file in the `gradle/wrapper` directory. You can update the version like this:

Final Notes:

- After modifying Gradle files, always perform a **Gradle sync** to make sure everything is set up properly.
- Ensure that all libraries and versions in the dependencies are compatible with each other

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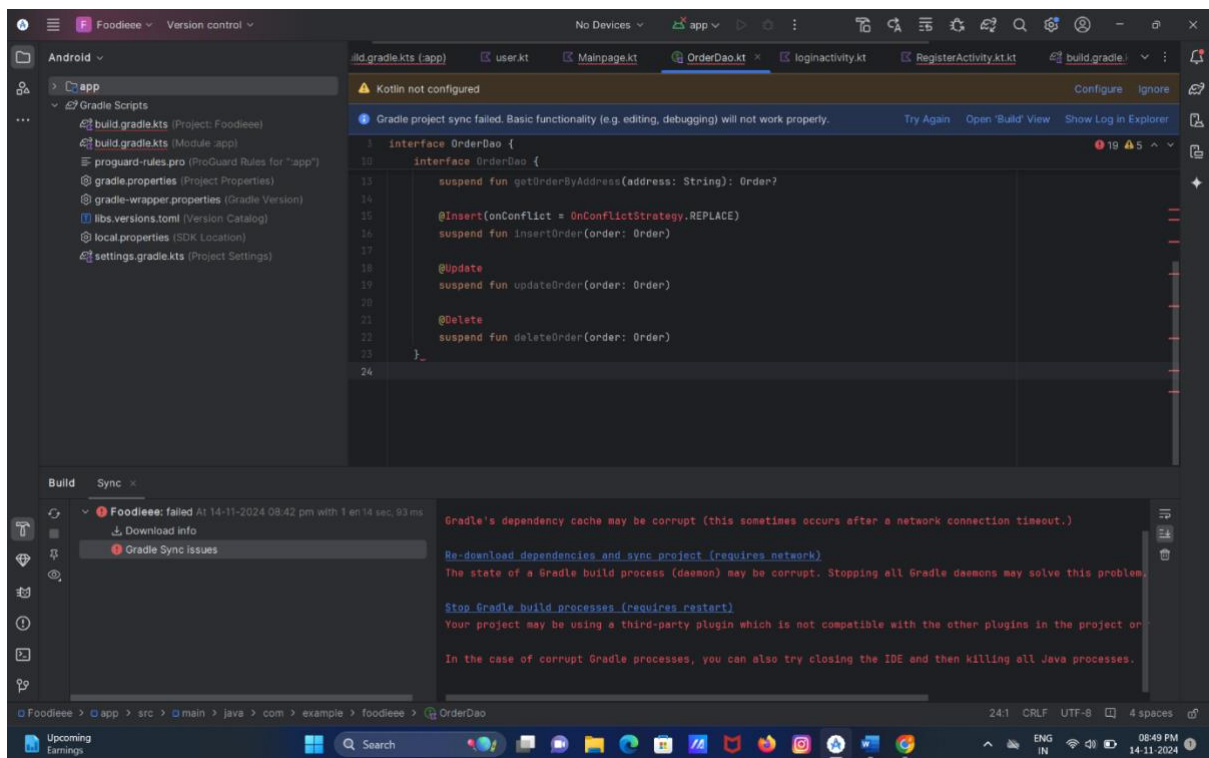
Creating the database classes

1.Database 1(create user data class)

Add Room dependencies to your project

In your build.gradle file (app module), add the following dependencies for Room

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Create an userdao interface

Step 1: Add Room dependencies to build.gradle

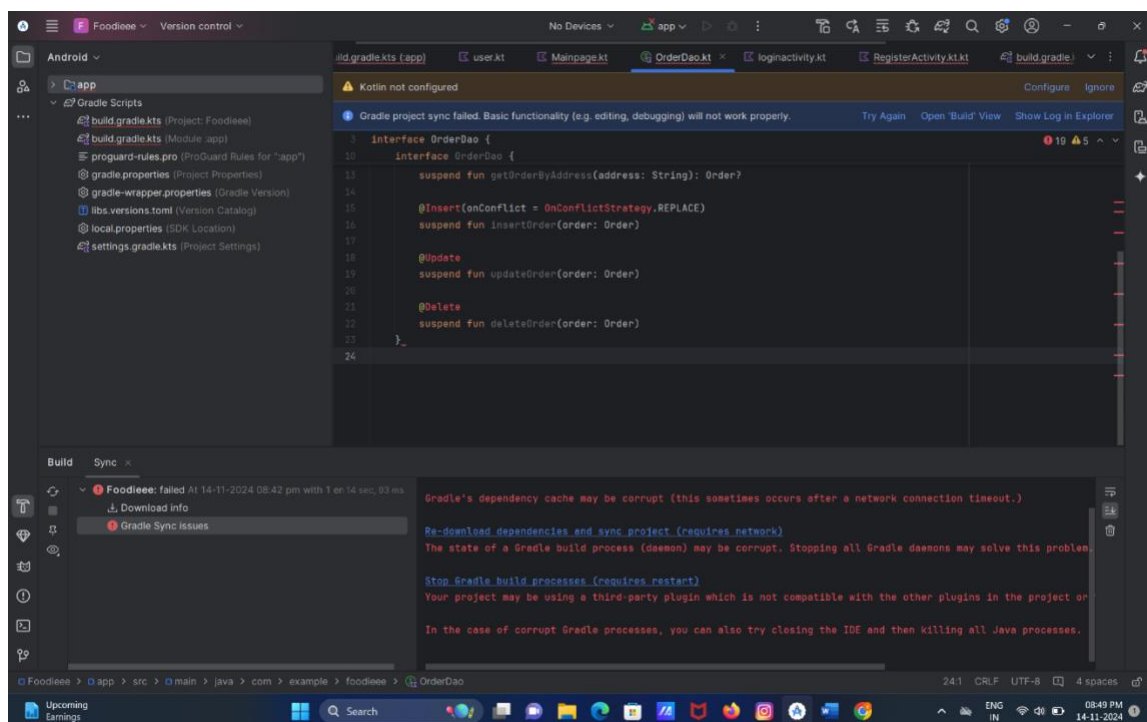
First, we need to add the necessary Room dependencies to your project.

1. Open the build.gradle file (app level).
2. Add the following dependencies

Step 2: Create the User data class

The User data class will represent the User entity in the database. Here's how you can define it:

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Create an user database class

Step 1: Add Room dependencies to build.gradle

In your app/build.gradle file, add the following dependencies for Room:

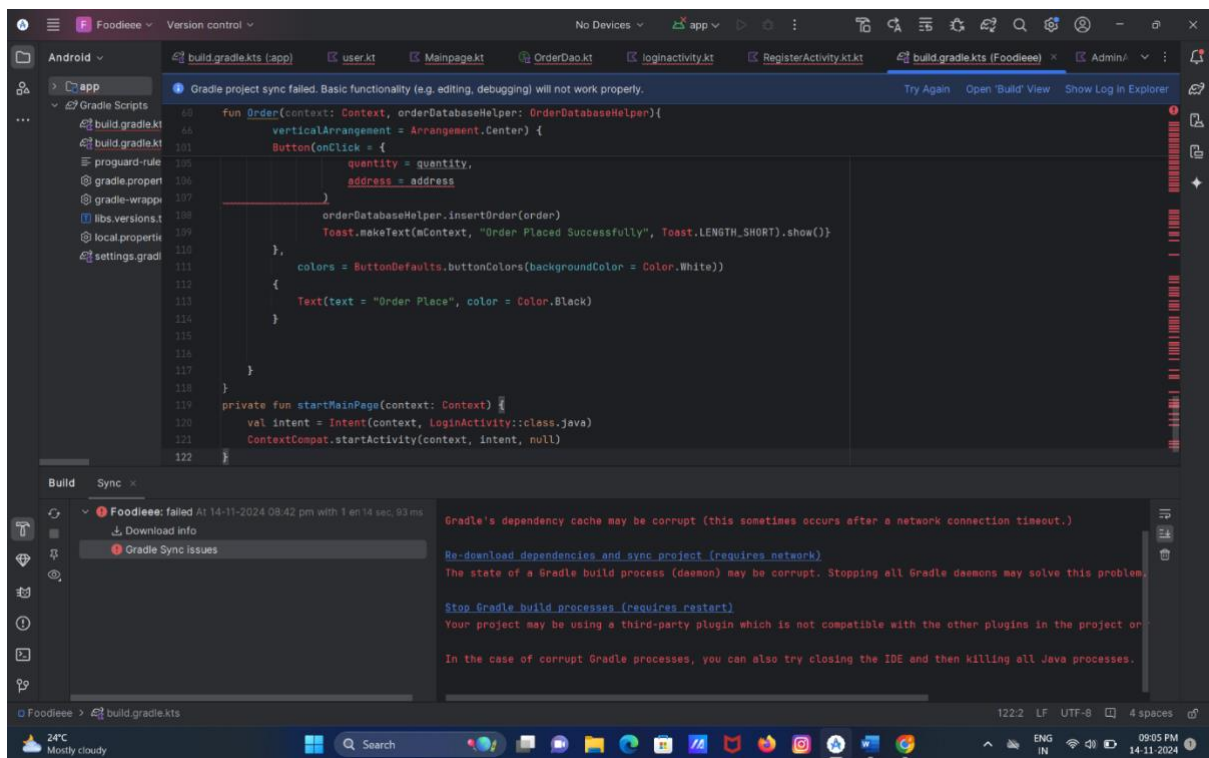
Step 2: Create the User Entity Class

The User class represents the data you want to store in the database. Each User will be stored as a row in a users table.

Step 3: Create the UserDao Interface

The UserDao (Data Access Object) defines the methods to interact with the database. These methods will be used to insert, update, delete, and query users.

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Create a userdatabase helper

Steps:

1. Create a User Database Helper class.
2. Define a User table schema.
3. Add methods for database operations (Create, Read, Update, Delete).

Here's an example implementation:

Step 1: Create a UserDatabaseHelper class

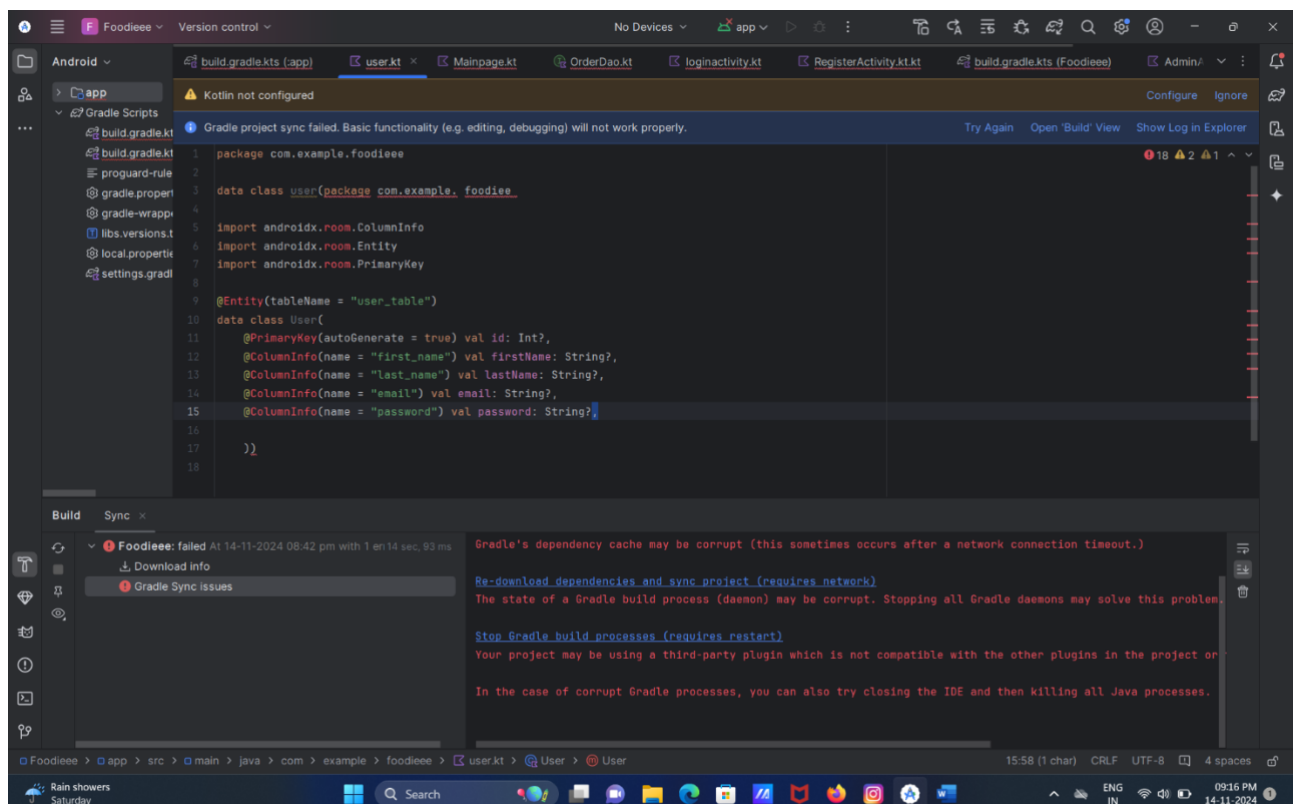
Create a new Java or Kotlin class called UserDatabaseHelper (or any name you prefer).

In Java

Step 2: Using the UserDatabaseHelper class

Once you've created the helper class, you can use it in your activities or fragments to interact with the database. Here's an example of how you can use it to add a user and retrieve users.

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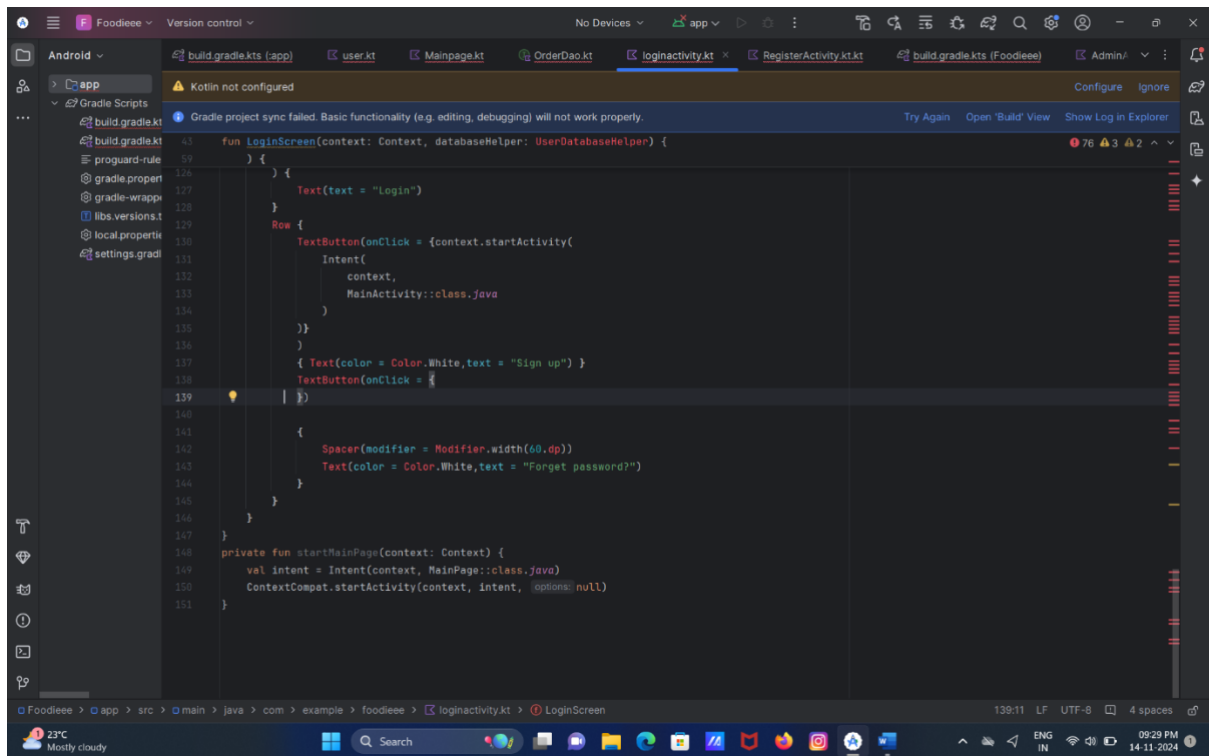
BULIDING APPLICATION UI AND CONNECTING TO DATABASE

Creating a login activity.kt with database

Steps:

- 1.Create the LoginActivity.kt file.
- 2.Create the Login UI (Layout XML file).
- 3.Connect the LoginActivity to the
UserDatabaseHelper.
- 4.Handle user login (check credentials from the
database)

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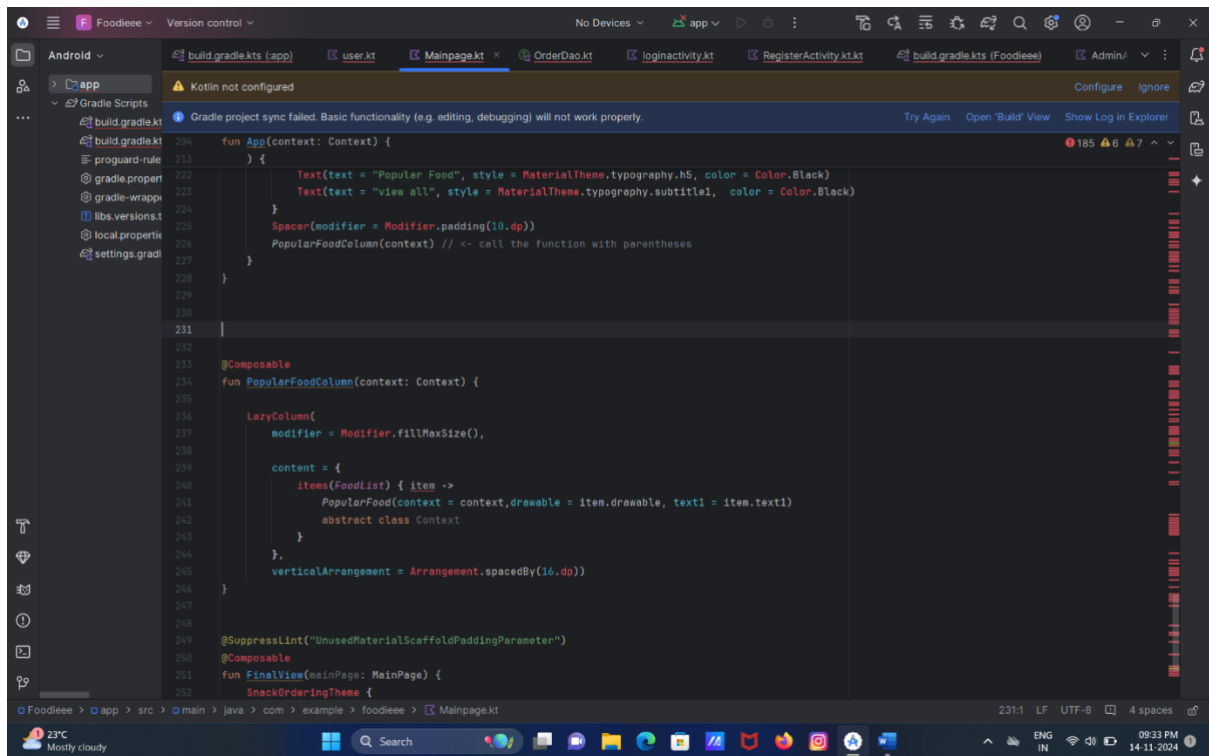


Creating a mainactivity.kt with database

Steps:

1. Create the MainActivity.kt file.
2. Design the UI for the MainActivity.
3. Interact with the database in MainActivity.kt

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Creating a mainpage.kt file

steps:

1. Open Project Explorer: In the Android Studio, open the Project view (usually on the left side).
2. Navigate to the Package: Locate the package where you want to place MainPage.kt. Typically, you'll find it under `app > java > com.example.yourprojectname`.
3. Create New Kotlin File:

- Right-click on the desired package folder.
- Select New > Kotlin File/Class.

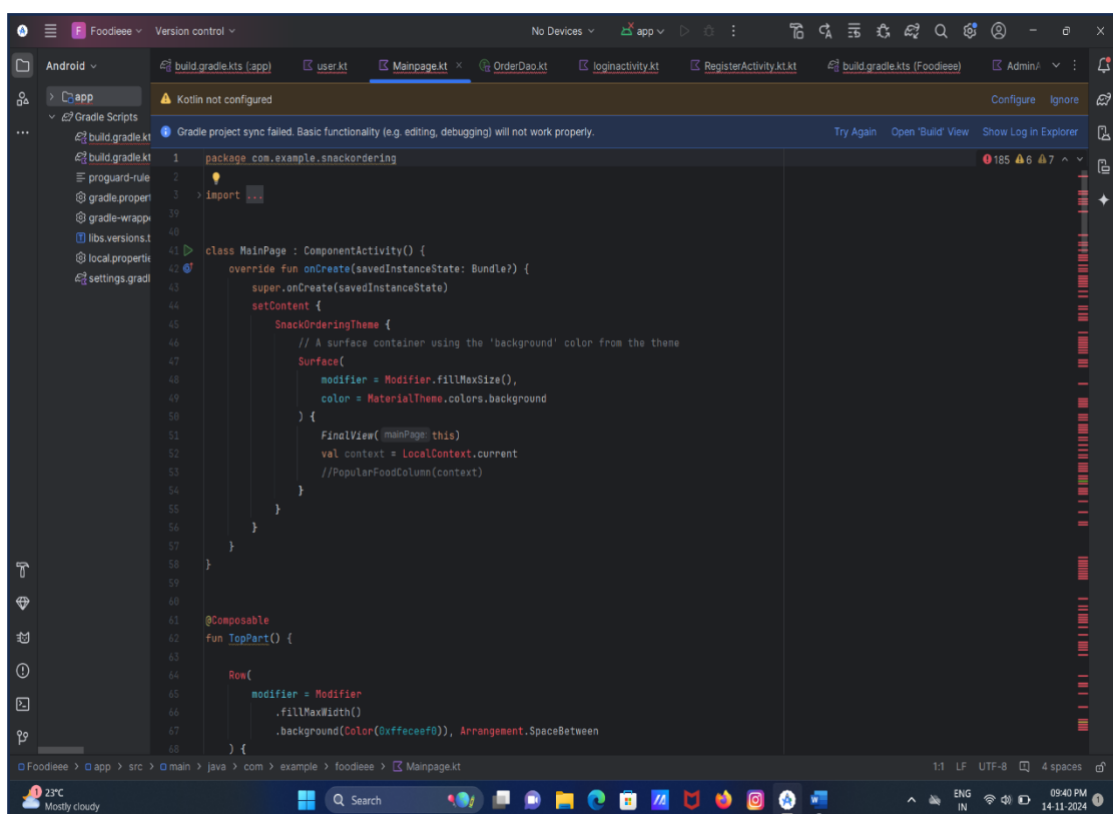
4. Name the File: In the pop-up window:

- Enter MainPage as the file name.
- Ensure the Kind is set to Class or File (choose Class if this will be an Activity, File if it contains functions only).
- Click OK.

5. Define the Class (if it's an Activity):

- If MainPage.kt will be an Activity, make it extend AppCompatActivity:

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Creating a target activity.kt

steps to follow:

1. Open Project Explorer: Open the Project view in Android Studio.
2. Navigate to the Package:
 - Find the package where you want to add TargetActivity.kt (usually under app > java > com.example.yourprojectname).
3. Create New Activity:
 - Right-click on the package folder.
 - Select New > Activity > Empty Activity.
4. Configure the New Activity:
 - In the pop-up window, set the Activity Name to TargetActivity.
 - The Layout Name will be auto-filled as activity_target.
 - Click Finish.
5. TargetActivity.kt File:
 - Android Studio will automatically create the TargetActivity.kt file, which looks like this by default

Creating admin activity.kt

- ☐ Open Project Explorer: Open the Project view in Android Studio.
- ☐ Navigate to the Package:
 - Find the package where you want to add AdminActivity.kt (usually under app > java > com.example.yourprojectname).
- ☐ Create New Activity:
 - Right-click on the package folder.
 - Select New > Activity > Empty Activity.
- ☐ Configure the New Activity:
 - In the pop-up window:
 - Set the Activity Name to AdminActivity.
 - The Layout Name will be automatically set to activity_admin.
 - Click Finish.
- ☐ AdminActivity.kt File:
 - Android Studio will create the AdminActivity.kt file with a basic setup

Modifying AndroidManifest.XML

Steps to Modify AndroidManifest.xml

1. Locate the Manifest File:

- Open your project in Android Studio.
- In the Project view, navigate to `app > manifests > AndroidManifest.xml`. This is where the file is located by default.

2. Understanding the Structure: The AndroidManifest.xml file typically has the following structure

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