## **Required Initial Steps**

Required initial steps:

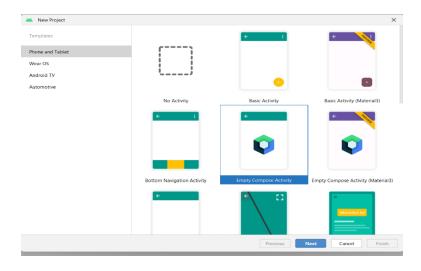
https://developer.android.com/studio/install

## **Creating A New Project**

Creating a new project.

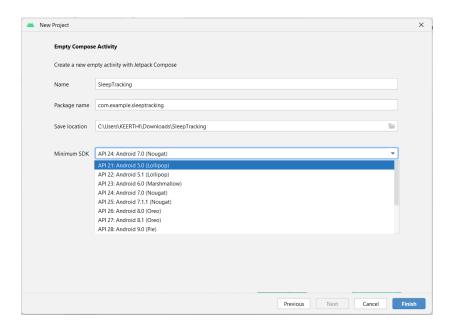
Step 1 : Android studio > File > New > New Project > Empty Compose Activity

Step 2 : Click on Next button.

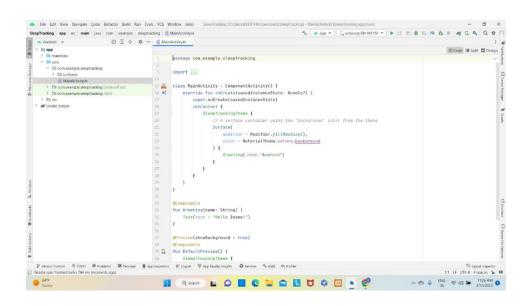


Step 3 : Give name to the new project. Step 4 : Give the Minimum SDK value

Step 5 : Click Finish



#### Main activity file



## **Adding Required Dependencies**

This milestone, explains about adding required dependencies.

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

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



## **Add The Below Code In Dependencies**

#### Add the below code in dependencies

Step 3: Click on Sync now

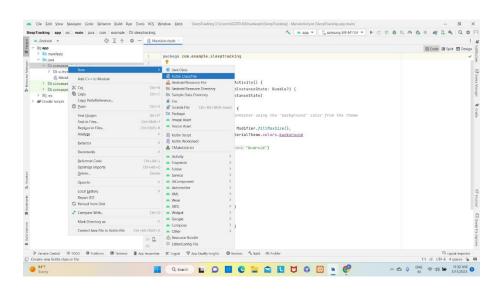
## **Creating The Database Classes.**

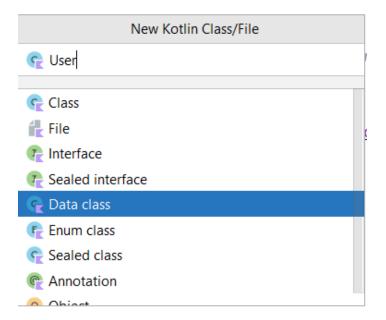
Creating the database classes.

In this project we will be having two databases, one is for user registration and login and other is for tracking the sleep of the user.

## **Database 1 (Create User Data Class)**

(Create User data class)

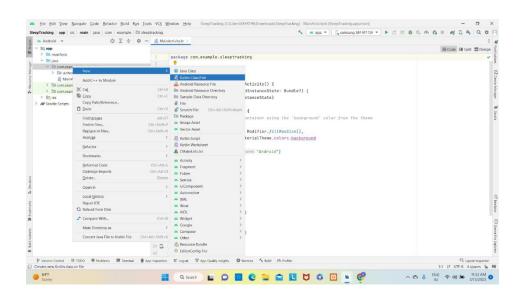


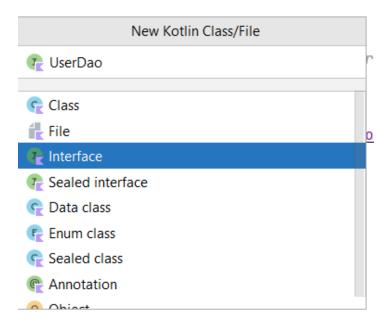


#### User class code:

https://github.com/smartinternz02/Sleeptracking/tree/main/app/src/main/java/com/example/projectone/User.kt

# Create An UserDao Interface Create an UserDao interface

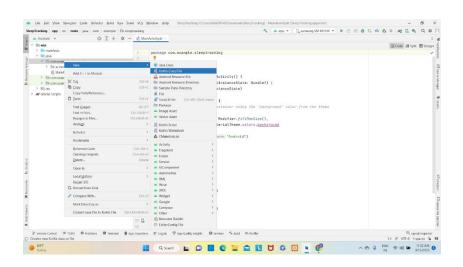


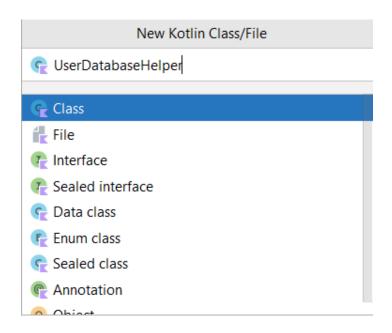


UserDao interface code:

https://github.com/smartinternz02/Sleeptracking/tree/main/app/src/main/java/com/example/projectone/UserDao.kt

# Create An UserDatabaseHelper Class Create an UserDatabaseHelper class





### UserDatabaseHelper class code:

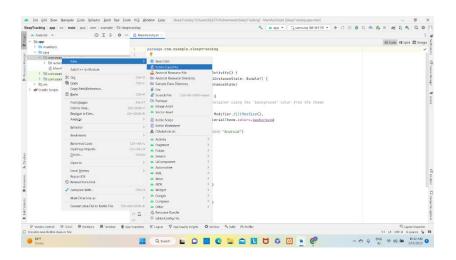
https://github.com/smartinternz02/Sleep-

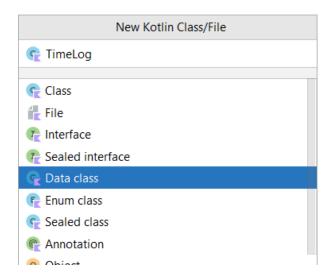
tracking/tree/main/app/src/main/java/com/example/projectone/UserDatabaseHelper.kt

## **Database 2**

This milestone explains about Database 2

# **Create TimeLog Data Class Create TimeLog data class**

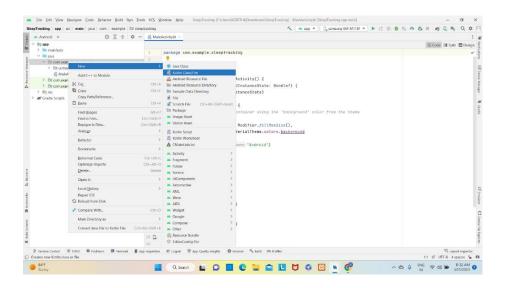


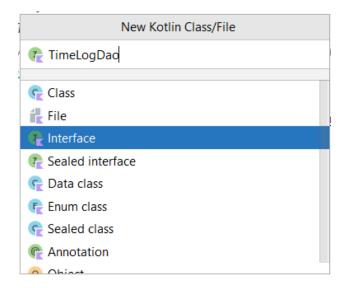


TimeLog data class code:

https://github.com/smartinternz02/Sleeptracking/tree/main/app/src/main/java/com/example/projectone/TimeLog.kt

# Create An TimeLogDao Interface Create an TimeLogDao interface

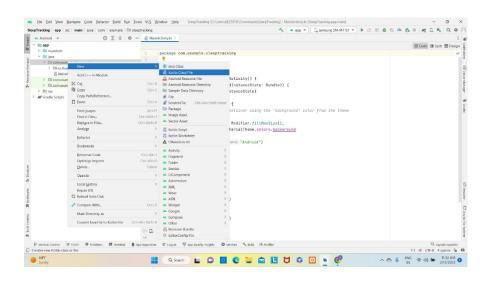


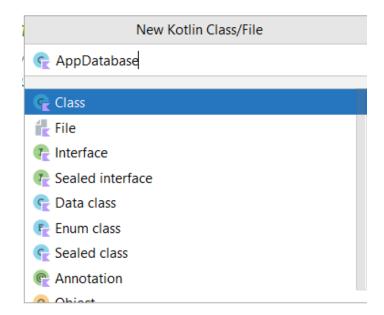


TimeLogDao interface code:

https://github.com/smartinternz02/Sleep-tracking/tree/main/app/src/main/java/com/example/projectone/TimeLogDao.kt

# **Create An AppDatabase Class Create an AppDatabase class**

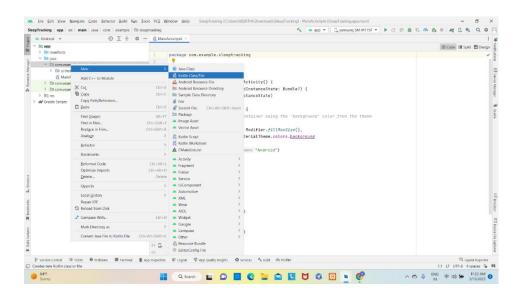


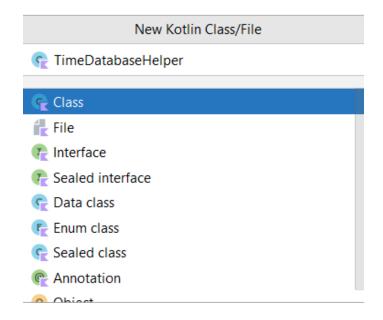


### AppDatabase class code:

https://github.com/smartinternz02/Sleep-tracking/tree/main/app/src/main/java/com/example/projectone/AppDatabase.kt

# **Create An TimeDatabaseHelper Class** Create an TimeDatabaseHelper class





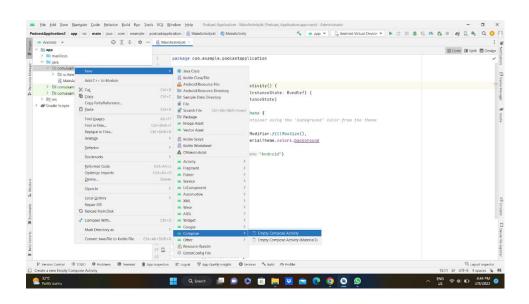
### TimeDatabaseHelper class code:

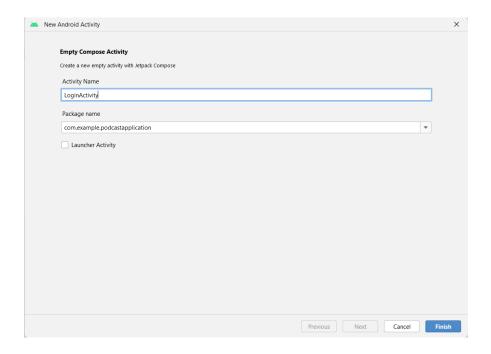
https://github.com/smartinternz02/Sleeptracking/tree/main/app/src/main/java/com/example/projectone/TimeDatabaseHelper.kt

# **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

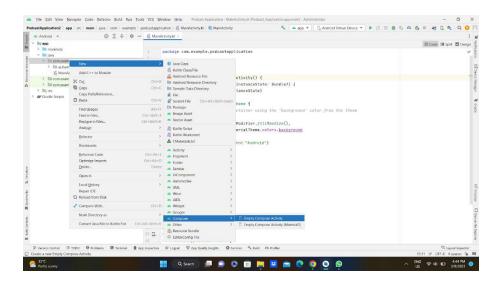
```
class LoginActivity : ComponentActivity() {
    private lateinit var <u>databaseHelper</u>: UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper( context: this)
        setContent {
            PodcastPlayerTheme {
                // A surface container using the 'background' color from th
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colors.background
                    LoginScreen( context: this, databaseHelper)
@Composable
fun LoginScreen(context: Context, databaseHelper: UserDatabaseHelper) {
   var username by remember { mutableStateOf( value: "") }
   var password by remember { mutableStateOf( value: "") }
   var error by remember { mutableStateOf( value: "") }
```

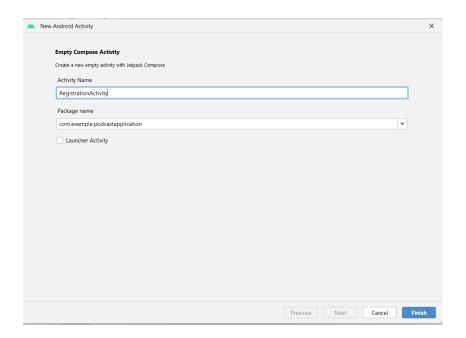
### Complete code in below link:

https://github.com/smartinternz02/Sleep-

tracking/tree/main/app/src/main/java/com/example/projectone/LoginActivity.kt

# Creating RegistrationActivity.Kt With Database Creating RegistrationActivity.kt with database





Database connection in RegistrationActivity.kt

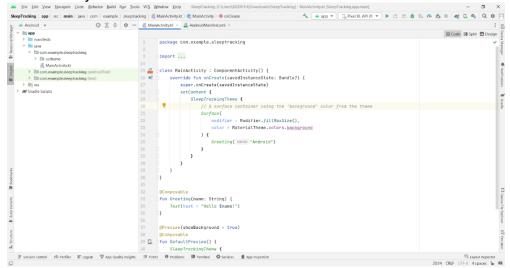
```
class RegistrationActivity : ComponentActivity() { private lateinit var <u>databaseHelper</u>: UserDatabaseHelper
   override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper( context: this)
        setContent {
           PodcastPlayerTheme {
          // A surface container using the 'background' color from the theme
                    modifier = Modifier.fillMaxSize(),
                   color = MaterialTheme.colors.background
               ) {
                    RegistrationScreen( context: this, databaseHelper)
               }
@Composable
fun RegistrationScreen(context: Context, databaseHelper: UserDatabaseHelper) {
   var username by remember { mutableStateOf( value: "") }
   var password by remember { mutableStateOf( value: "") }
   var email by remember { mutableStateOf( value: "") }
   var error by remember { mutableStateOf( value: "") }
```

### Complete code in below link:

https://github.com/smartinternz02/Sleeptracking/tree/main/app/src/main/java/com/example/projectone/RegisterActivity.kt nodpi

Required drawables

#### MainActivity.kt

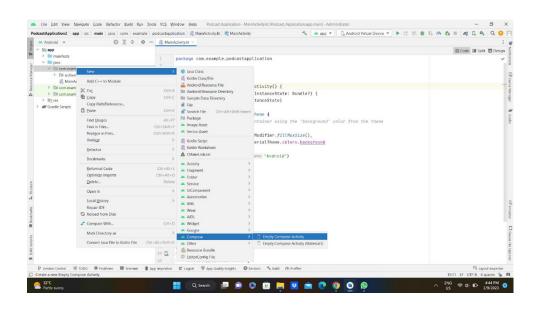


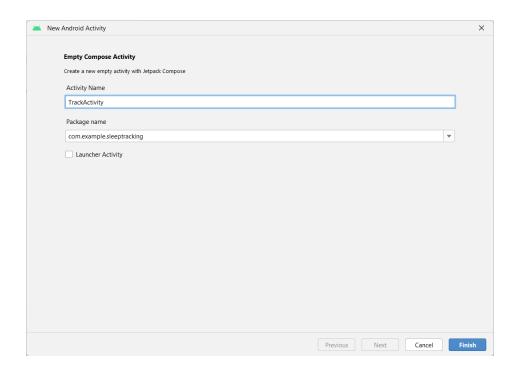
#### Complete code in below link:

https://github.com/smartinternz02/Sleep-

tracking/tree/main/app/src/main/java/com/example/projectone/MainActivity.kt

# **Creating TrackActivity.Kt File Creating TrackActivity.kt file**





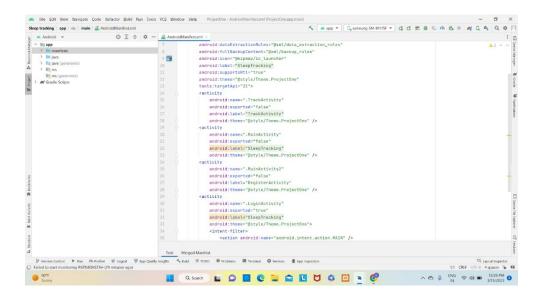
Database connection and fetching in TrackActivity.kt

#### Complete code in below link:

https://github.com/smartinternz02/Sleep-

tracking/tree/main/app/src/main/java/com/example/projectone/TrackActivity.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.

```
tools:targetApi="31">
<activity
   android:name=".TrackActivity"
   android:exported="false"
   android:label="TrackActivity"
   android:theme="@style/Theme.ProjectOne" />
<activity
   android:name=".MainActivity"
    android:exported="false"
    android:label="SleepTracking"
   android:theme="@style/Theme.ProjectOne" />
<activity
   android:name=".MainActivity2"
   android:exported="false"
   android:label="RegisterActivity"
   android:theme="@style/Theme.ProjectOne" />
<activity
   android:name=".LoginActivity"
    android:exported="true"
    android:label="SleepTracking"
   android:theme="@style/Theme.ProjectOne">
    <intent-filter>
       <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
```

#### Complete AndroidManifest.xml code:

https://github.com/smartinternz02/Sleeptracking/blob/main/app/src/main/AndroidManifest.xml

## **Running The Application**

This milestone explains about running the application.