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### **Program & Department: MEng Electrical & Computer Engineering**

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**Topic: Expense Tracker & Budget Planner** 

I have built an Expense Tracker & Budget planner mobile application using Flutter. The functionality of the application are as follows,

**Sign Up/Sign In Screen**: This uses Firebase User Authentication and Authorization. The user has to provide email Id and password

**Dashboard**: Overview of recent transactions, existing balance.

**Analytics Screen**: A graphical representation of expenses for the entire month.

**Goals Screen**: Track and manage savings goals.

**User Profile Screen**: Manage Display Name, Profile picture, Phone Number information

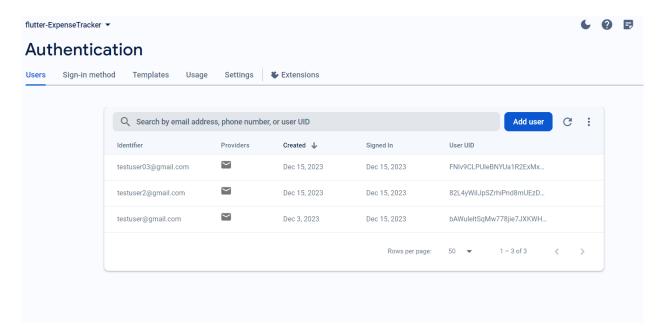
'+' button on the Home screen i.e Dashboard navigates the user to Add Expenses/ Income screen where based on the user selection the input fields dynamically changes depending on Income/Expenses.

**Transaction Details Screen**: On clicking each of the Dashboard recent transactions the user will be navigated to Transaction Details screen where the user will be able to edit or delete the transaction.

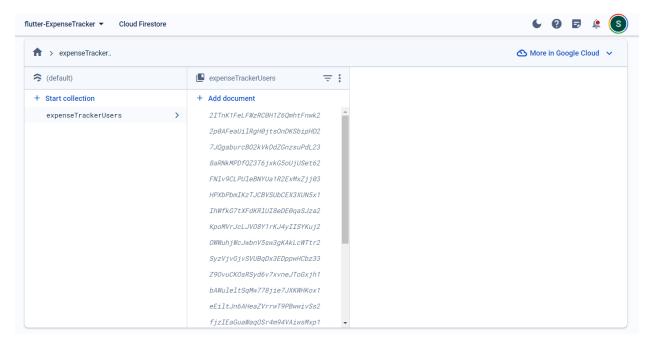
For Web-enablement: I am using Firebase REST API for real-time database access and save user generated data with Firebase.

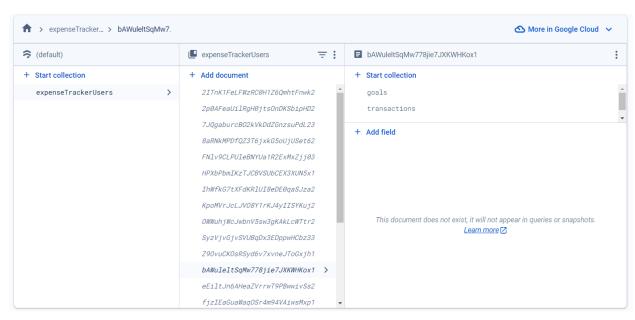
For storing profile images, I am using Storage in Firebase

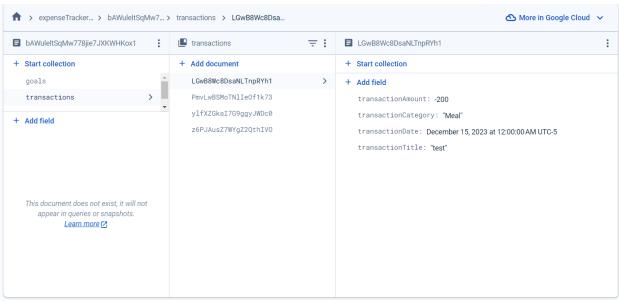
### **Firebase Authentication**

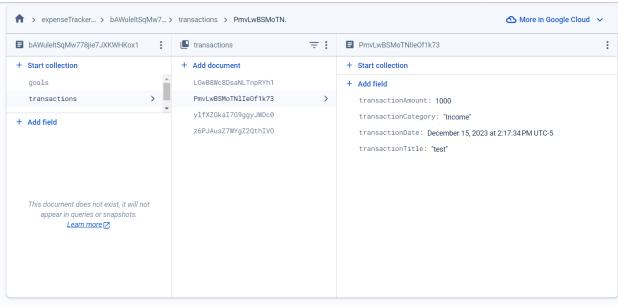


# **Cloud Firestore (Database storage & REST API)**

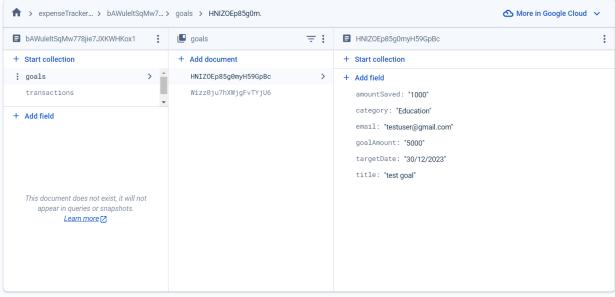




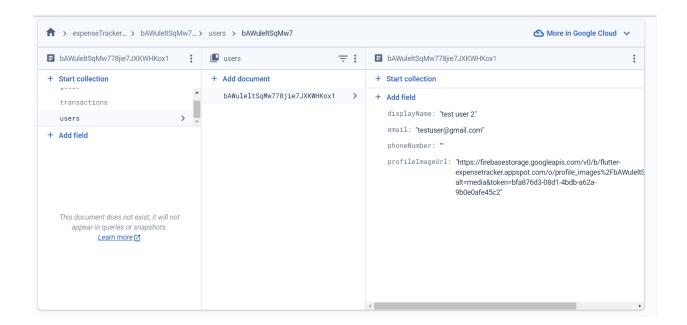




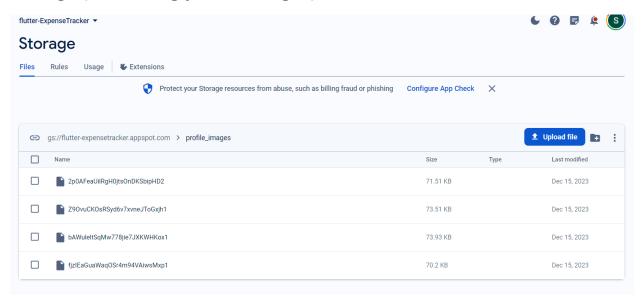
Database location: nam5

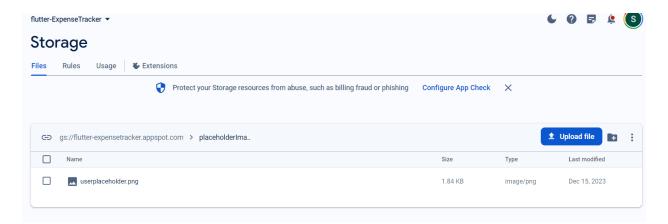


Database location: nam5



# Storage (for storing profile images)





I had to include the below lines in android/app/build.gradle

```
multiDexEnabled true
```

```
dependencies {
   implementation 'com.android.support:multidex:1.0.3'
}
```

```
analytics.dart
                                                                              👗 userProfile.dart
> .dart_tool
  > a.gradle
  ∨ 🖿 арр
      w build.gradle
    🚜 .gitignore
    ₩ build.gradle
                                                   signingConfig signingConfigs.debug
    expense_tracker_android.iml
    🚮 gradle.properties
    ■ gradlew
    륄 gradlew.bat
    hs_err_pid59972.log
    📊 local.properties
    replay_pid59972.log
    er settings.gradle
```