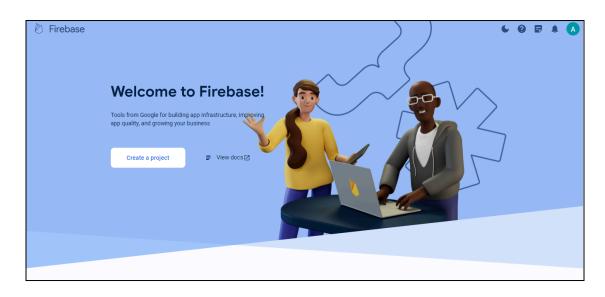
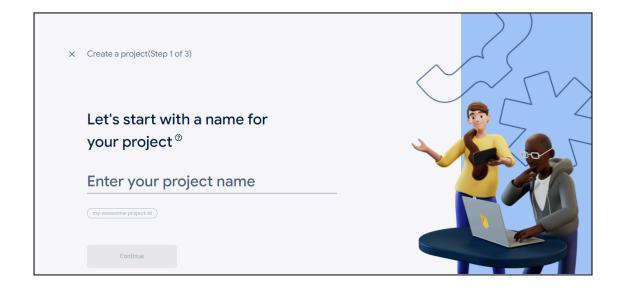
Experiment No 6

Aim: Connect Flutter UI with Firebase Database

Theory:

Step 1: Set up Firebase Project
 Create a Firebase Project and add your Flutter app to Firebase.
 Enable Firebase services like Firestore or Realtime Database.





Step 2: Set up Flutter Project

Add Firebase dependencies in pubspec.yaml. Initialize Firebase in your Flutter app's main file.



Step 3: Connect Flutter UI with Firebase

For Firestore Database:

Use Firestore to read and write data.

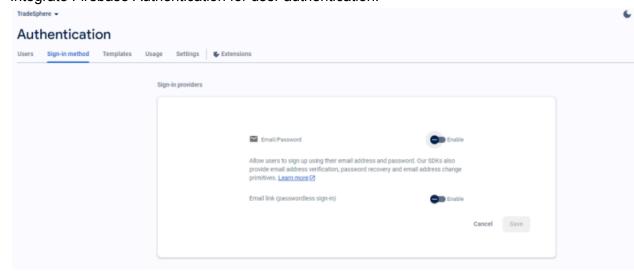
For Realtime Database:

Use Realtime Database to interact with data in real-time.

```
2. Then, in your module (app-level) build. gradle file, add both the google-services plug-in and any
Firebase SDKs that you want to use in your app:
Module (app-level) Gradle file (ct>/<app-module>/build.gradle):
  plugins {
    id 'com.android.application'
                                                                                 // Add the Google services Gradle plugin
                                                                                 id 'com.google.gms.google-services'
  }
  dependencies {
    // Import the Firebase BoM
    implementation platform('com.google.firebase:firebase-bom:32.7.3')
    // TODO: Add the dependencies for Firebase products you want to use
    // When using the BoM, don't specify versions in Firebase dependencies
    implementation 'com.google.firebase:firebase-analytics'
    // Add the dependencies for any other desired Firebase products
    // https://firebase.google.com/docs/android/setup#available-libraries
By using the Firebase Android BoM, your app will always use compatible Firebase library versions. Learn more 🔀
```

Step 4: Authentication

Integrate Firebase Authentication for user authentication.



Conclusion:

Connecting Flutter UI with a Firebase database is crucial for creating dynamic and interactive mobile applications. By understanding this connection, developers can build apps that store and retrieve data seamlessly.