EXPERIMENT - 06

AIM: To connect Flutter UI with Firebase database.

THEORY:

Firebase helps developers to manage their mobile app easily. It is a service provided by Google. Firebase has various functionalities available to help developers manage and grow their mobile apps.

Steps to Add firebase to our Flutter app using Firebase CLI

- 1. Install the Firebase CLI and log in (run firebase login)
- 2. From any directory, run this command:
 - a. dart pub global activate flutterfire cli
- 3. Then, at the root of your Flutter project directory, run this command:
 - a. flutterfire configure --project=questitnextjs
- 4. This automatically registers your per-platform apps with Firebase and adds a lib/firebase options.dart configuration file to your Flutter project.
- 5. To initialise Firebase, call Firebase.initializeApp from the firebase_core package with the configuration from your new firebase options.dart file:

```
import 'package:firebase_core/firebase_core.dart';
import 'firebase_options.dart';
await Firebase.initializeApp(
    options: DefaultFirebaseOptions.currentPlatform,
);
```

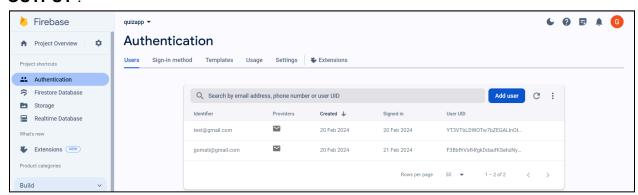
6. Add the dependencies in the pubspec.yaml file

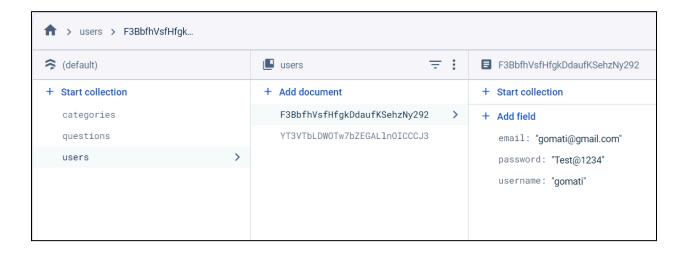
Firebase_core : ^version Firebase_auth : ^version Cloud_firestore : ^version

CODE:

```
void main() async {
// Initialize Firebase
WidgetsFlutterBinding.ensureInitialized();
await Firebase.initializeApp(
 options: DefaultFirebaseOptions.currentPlatform,
);
runApp(const MyApp());
Adding user:
UserCredential userCredential = await
FirebaseAuth.instance.createUserWithEmailAndPassword(
email: email,
password: password,
);
// Add user details to Firestore
await FirebaseFirestore.instance.collection('users').doc(userCredential.user!.uid).set({
'username': username,
'email': email,
'password': password,
});
// Navigate to the home page
Navigator.push(
context,
MaterialPageRoute(builder: (context) => UserLandingPage()),
);
```

OUTPUT:





Conclusion: Thus, we have successfully connected firebase to our flutter app.