EXPERIMENT NO 6

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AIM-To connect Flutter UI with firebase.

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:
 - dart pub global activate flutterfire_cli
 - 3. Then, at the root of your Flutter project directory, run this command: flutterfire configure --project=questitnextis
- 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.initialize App 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
SYNTAX
import 'package:firebase_auth/firebase_auth.dart';
Future<void> signInUser(String email, String password)
async { try {
await
FirebaseAuth.instance.signInWithEmailAndPassword(
email: email,
password: password,
);
print("User Signed In Successfully!");
} catch (e) {
print("Error: $e");
```

CODE

```
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';

class AuthService {
   final FirebaseAuth _auth = FirebaseAuth.instance;
   final FirebaseFirestore _firestore = FirebaseFirestore.instance;

Future<User?> signUp(String email, String password, String name, String photoUrl) async {
    try {
      UserCredential userCred = await
```

```
auth.createUserWithEmailAndPassword(
         email: email, password: password);
      'photoUrl': photoUrl,
    return userCred.user;
    print(e);
 Future<User?> login(String email, String password) async {
     UserCredential userCred = await
auth.signInWithEmailAndPassword(
         email: email, password: password);
     return userCred.user;
     print(e);
```

```
return null;
}

User? getCurrentUser() {
  return _auth.currentUser;
}

Future<void> signOut() async {
  await _auth.signOut();
}
```

OUTPUT

