MAD LAB EXPT 6

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Aim: To connect Flutter UI with Firebase.

Output:

```
import 'package:amazon_clone/layout/screen_layout.dart';
import 'package:amazon_clone/model/product_model.dart';
import 'package:amazon_clone/providers/user_details_provider.dart';
import 'package:amazon_clone/screens/product_screen.dart';
import 'package:amazon_clone/screens/results_screen.dart';
import 'package:amazon_clone/screens/sell_screen.dart';
import 'package:amazon_clone/screens/sign_in_screen.dart';
import 'package:amazon_clone/utils/color_themes.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/foundation.dart';
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';

void main() async {
  WidgetsFlutterBinding.ensureInitialized();
  if (kIsWeb) {
    await Firebase.initializeApp(
      options: const FirebaseOptions(
        apiKey: "AIzaSyDvpZFXdfmjxwc0x2oClDw01sNoMrLoF4c",
        authDomain: "clone-12f8a.firebaseapp.com",
        projectId: "clone-12f8a",
        storageBucket: "clone-12f8a.appspot.com",
        messagingSenderId: "413818422314",
        appId: "1:413818422314:web:f7981d7db247b565732f53"));
  } else {
    await Firebase.initializeApp();
  }
  runApp(const AmazonClone());
}

class AmazonClone extends StatelessWidget {
  const AmazonClone({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
```
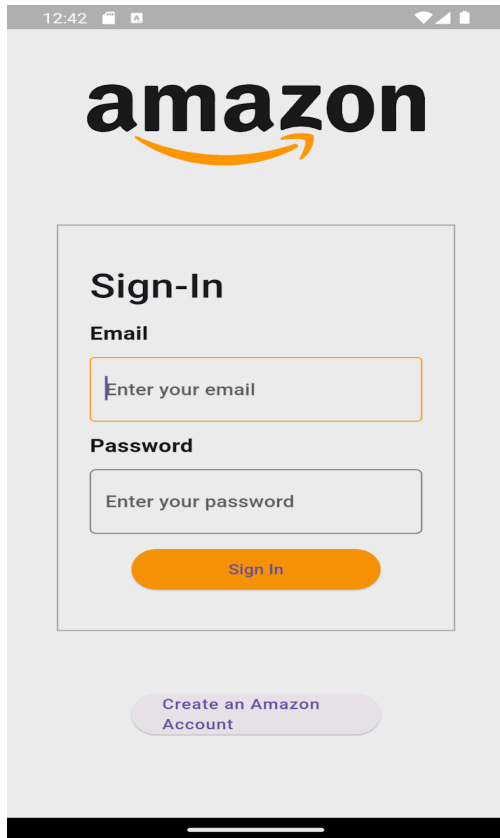
```dart
    return MultiProvider(
      providers: [ChangeNotifierProvider(create: (_) => UserDetailsProvider())],
      child: MaterialApp(
        title: "Amazon Clone",
        debugShowCheckedModeBanner: false,
        theme: ThemeData.light().copyWith(
          scaffoldBackgroundColor: backgroundColor,
        ),
        home: StreamBuilder(
            stream: FirebaseAuth.instance.authStateChanges(),
            builder: (context, AsyncSnapshot<User?> user) {
              if (user.connectionState == ConnectionState.waiting) {
                return const Center(
                  child: CircularProgressIndicator(
                    color: Colors.orange,
                  ),
                );
              } else if (user.hasData) {
                return const ScreenLayout();
                //return const SellScreen();
              } else {
                return const SignInScreen();
              }
            }),
      ),
    );
  }
}
```

Connected with firebase for authentication.

Conclusion: Firebase has been connected to the Flutter application for user authentication purposes.