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Roll no:58

EXP:6

Aim: To learn how to integrate Firebase with a Flutter application for both Android and iOS platforms.

Theory: Firebase is a cloud-based backend solution that provides a range of services like authentication, database, storage, cloud functions, and analytics. Flutter supports Firebase through the official FlutterFire plugins. This setup allows seamless backend integration in cross-platform apps.

Prerequisites:

- Google account
- Flutter SDK installed
- Android Studio and/or Visual Studio Code
- Flutter and Dart plugins • Xcode (for iOS development)

Steps: 1. Creating a New Flutter Project: `flutter create flutterfirebaseexample cd flutterfirebaseexample`

2. Creating a New Firebase Project:

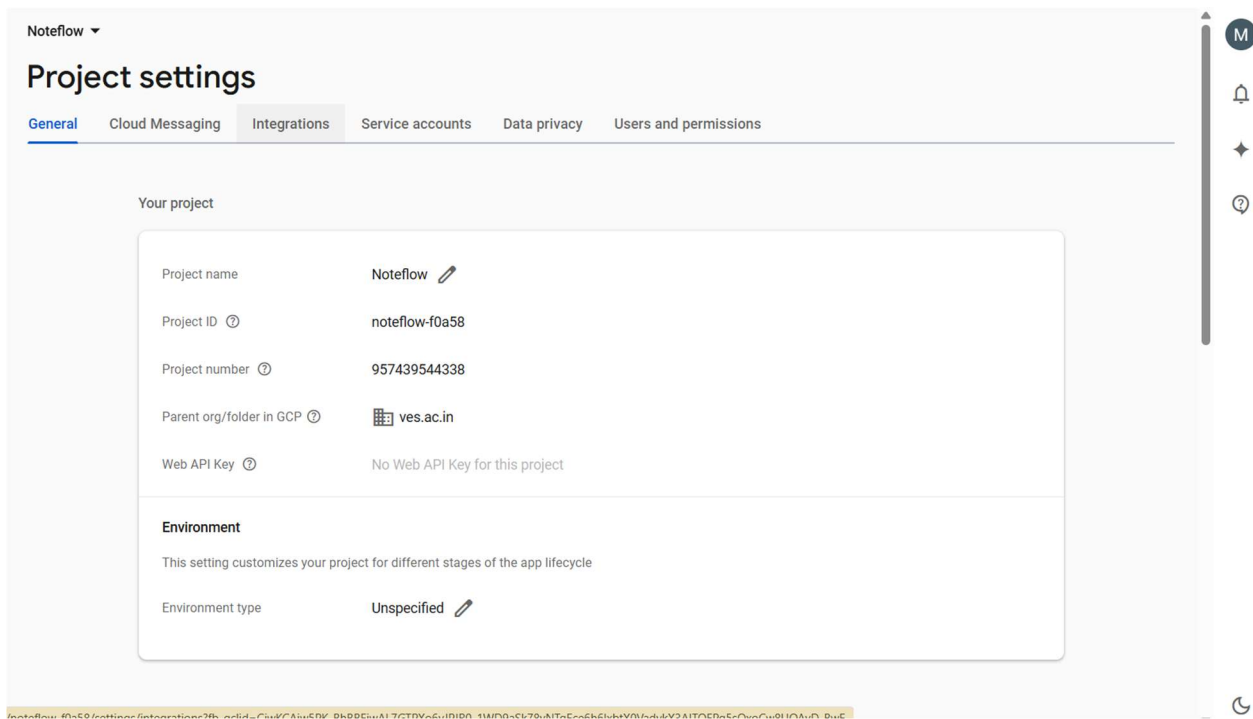
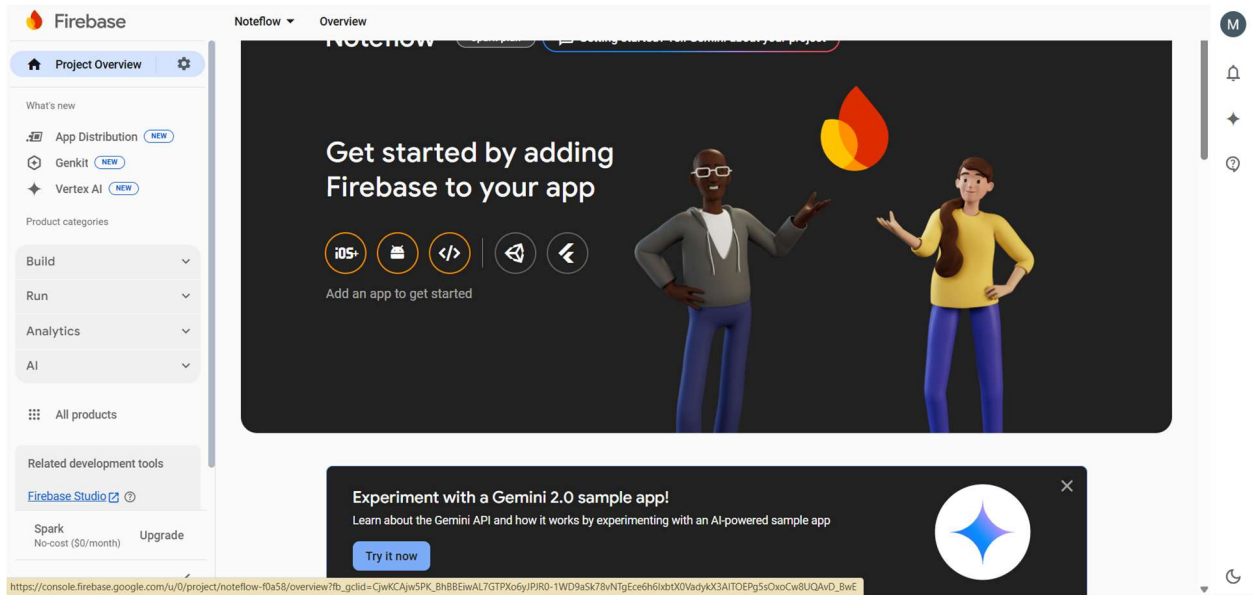
- Go to Firebase Console
- Click “Add Project” and follow the prompts
- Optionally disable Google Analytics

3. Adding Android Support:

- Click Android icon in Firebase dashboard
- Use your app’s package name (e.g., `com.example.flutterfirebaseexample`)
- Add this package name to `android/app/build.gradle` under `applicationId`

4. Downloading the Config File:

- Download `google-services.json`
- Place it inside `android/app/`



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Add Firebase to your Android app

✓ Register app

Android package name: com.example.noteflow, App nickname: Noteflow

Android package name ⓘ

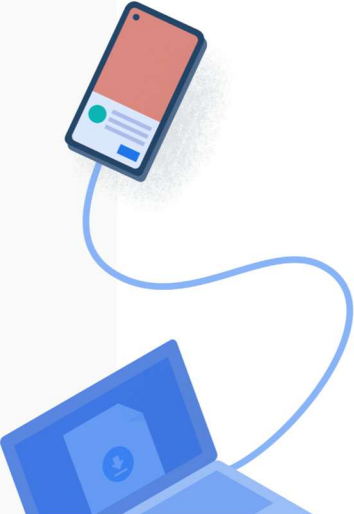
App nickname (optional) ⓘ

Debug signing certificate SHA-1 (optional) ⓘ

ⓘ Required for Dynamic Links, and Google Sign-In or phone number support in Auth. Edit SHA-1s in Settings.

2 Download and then add config file

3 Add Firebase SDK



[Go to docs](#)

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Add Firebase to your Android app

✓ Register app

Android package name: com.example.noteflow, App nickname: Noteflow


2 Download and then add config file

Instructions for Android Studio below | [Unity](#) [C++](#)

[Download google-services.json](#)

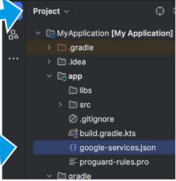
Switch to the Project view in Android Studio to see your project root directory.

Move your downloaded google-services.json file into your module (app-level) root directory.

  
google-services.json

[Next](#)

3 Add Firebase SDK



Conclusion: Firebase was successfully integrated into the Flutter app for both Android and iOS. The app can now leverage Firebase services like authentication, Firestore, and analytics via the FlutterFire plugin suite. This setup ensures scalability and real-time functionality for mobile app development.