

First of all, you need to set up the firebase for this project.

YOUTUBE TUTORIALS

<https://www.youtube.com/watch?v=bMTrKMcJW6k&t=240s>

The easiest way use Firebase CLI and Flutter fire

Install Firebase CLI

https://firebase.google.com/docs/cli#install_the_firebase_cli

- If you are a windows user. My recommendation is to use the [npm](#) instead of the [standalone binary](#)
- Log in with your firebase email when the popup authentication window

Install flutterfire cli

<https://firebase.flutter.dev/docs/overview/>

```
# Install the CLI if not already done so
dart pub global activate flutterfire_cli
# Run the `configure` command, select a Firebase project and platforms
flutterfire configure
```

- Flutterfire configure -
This command will automatically create IOS, Android, Web firebase apps for your flutter app, check the firebase console.

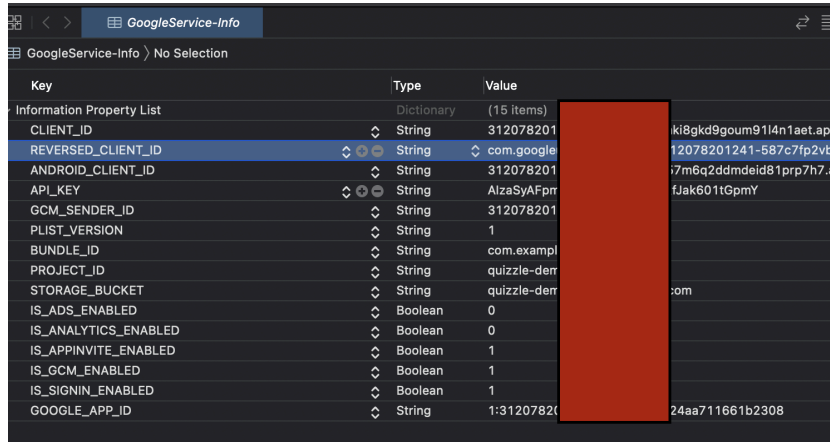
- Make sure **lib\firebase_options.dart** generated.
- But you need to manually copy google-services.json or GoogleService-Info.plist files

```
PS D:\projects\Flutter\quizzies\quizzies> flutterfire configure
Flutterfire : The term 'flutterfire' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ ~ flutterfire configure
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (Flutterfire:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
```

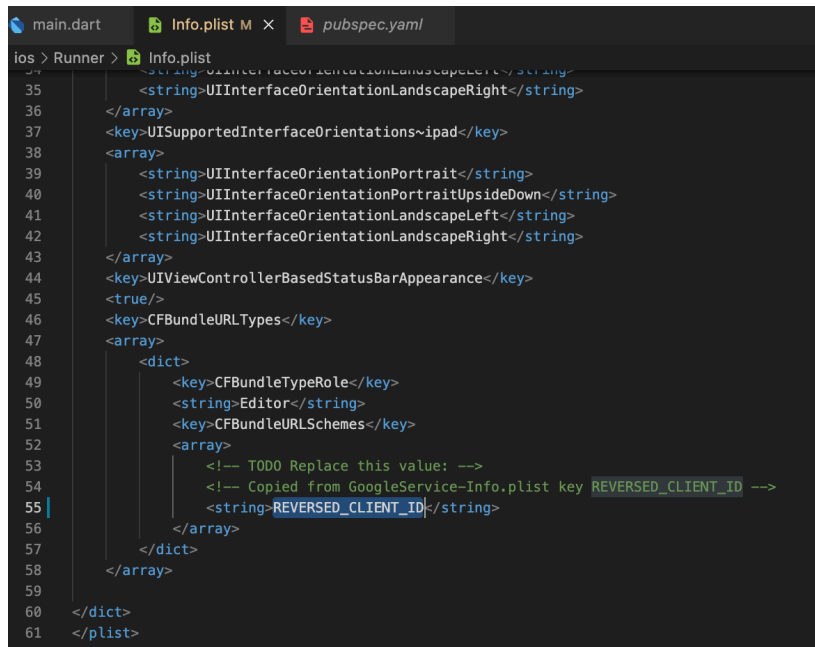
If you get error like this in windows, This means you need to add **C:\Users*username*\AppData\Local\Pub\Cache\bin** into your System's environment path.

Enable **firebase** database, **storage**, and **authentications** in firebase. Enable **google authentication**

Add **REVERSED_CLIENT_ID** to the info.plist



Key	Type	Value
Information Property List	Dictionary	(15 items)
CLIENT_ID	String	312078201
REVERSED_CLIENT_ID	String	com.google
ANDROID_CLIENT_ID	String	312078201
APL_KEY	String	AlzaSyAFpr
GCM_SENDER_ID	String	312078201
PLIST_VERSION	String	1
BUNDLE_ID	String	com.exempl
PROJECT_ID	String	quizzle-derr
STORAGE_BUCKET	String	quizzle-derr
IS_ADS_ENABLED	Boolean	0
IS_ANALYTICS_ENABLED	Boolean	0
IS_APPINVITE_ENABLED	Boolean	1
IS_GCM_ENABLED	Boolean	1
IS_SIGNIN_ENABLED	Boolean	1
GOOGLE_APP_ID	String	1:312078201



```
main.dart  Info.plist M x  pubspec.yaml
ios > Runner > Info.plist
34 <string>UIInterfaceOrientationLandscapeLeft</string>
35 <string>UIInterfaceOrientationLandscapeRight</string>
36 </array>
37 <key>UISupportedInterfaceOrientations~ipad</key>
38 <array>
39 <string>UIInterfaceOrientationPortrait</string>
40 <string>UIInterfaceOrientationPortraitUpsideDown</string>
41 <string>UIInterfaceOrientationLandscapeLeft</string>
42 <string>UIInterfaceOrientationLandscapeRight</string>
43 </array>
44 <key>UIViewControllerBasedStatusBarAppearance</key>
45 <true/>
46 <key>CFBundleURLTypes</key>
47 <array>
48 <dict>
49 <key>CFBundleTypeRole</key>
50 <string>Editor</string>
51 <key>CFBundleURLSchemes</key>
52 <array>
53 <!-- TODO Replace this value: -->
54 <!-- Copied from GoogleService-Info.plist key REVERSED_CLIENT_ID -->
55 <string>REVERSED_CLIENT_ID</string>
56 </array>
57 </dict>
58 </array>
59 </dict>
60 </plist>
61
```

Add **SHA-1** to the android project

<https://stackoverflow.com/questions/51845559/generate-sha-1-for-flutter-react-native-android-native-app>

- **Update firestore database rules**

```
rules_version = '2';
service cloud.firestore {
  match /databases/{database}/documents {
    match /quizpapers/{ppr}/questions/{q}{
      allow read, write: if request.auth != null
    }

    match /leaderboard/{document=**} {
      allow read, write: if true;
    }

    match /quizpapers/{document=**} {
      allow read, write: if true;
    }

    match /users/{document=**} {
      allow read, write: if true;
    }
  }
}
```

- **Update storage rules**

```
rules_version = '2';
service firebase.storage {
  match /b/{bucket}/o {
    match /{allPaths=**} {
      allow read, write: if true;
    }
  }
}
```

Create a folder named “quiz_paper_images”

And Add provide quiz images to storage

https://github.com/CodeFoxLk/quizzle_public/tree/master/assets

Add initial paper data to the firestore database

```
// SystemChrome.setPreferredOrientations(  
//   [DeviceOrientation.portraitUp, DeviceOrient  
//   runApp(const MyApp());  
// });  
// }  
  
// class MyApp extends StatelessWidget {  
//   const MyApp({Key? key}) : super(key: key);  
  
//   static final GlobalKey<NavigatorState> navigator  
  
//   @override  
//   Widget build(BuildContext context) {  
//     return GetMaterialApp(  
//       navigatorKey: navigatorKey,  
//       title: 'Flutter Demo',  
//       theme: Get.find<ThemeController>().getLight  
//       darkTheme: Get.find<ThemeController>().getD  
//       getPages: AppRoutes.pages(),  
//       debugShowCheckedModeBanner: false,  
//     );  
//   }  
// }  
  
Future<void> initFireBase() async {  
  await Firebase.initializeApp(  
    options: DefaultFirebaseOptions.currentPlatform,  
  );  
}  
  
Run | Debug | Profile  
void main(List<String> args) async{  
  WidgetsFlutterBinding.ensureInitialized();  
  await initFireBase();  
  runApp(GetMaterialApp(  
    home: DataUploaderScreen(),  
  )); // GetMaterialApp  
}
```

Comment everything except these code lines in main.dart.

1. Run this command - flutter clean
2. Run this command - flutter run

Run Project

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

  static final GlobalKey<NavigatorState> navigatorKey = GlobalKey();

  @override
  Widget build(BuildContext context) {
    return GetMaterialApp(
      navigatorKey: navigatorKey,
      title: 'Flutter Demo',
      theme: Get.find<ThemeController>().getLightTheme(),
      darkTheme: Get.find<ThemeController>().getDarkTheme(),
      getPages: AppRoutes.pages(),
      debugShowCheckedModeBanner: false,
    );
  }
}

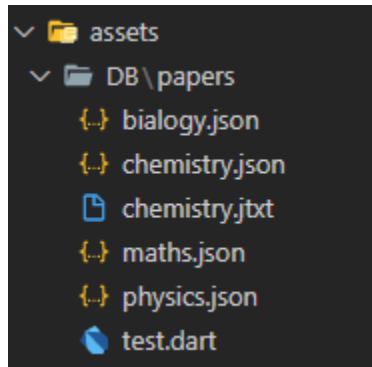
Future<void> initFireBase() async {
  if (Firebase.apps.isEmpty) {
    await Firebase.initializeApp(
      name: 'quizzle-demo',
      options: DefaultFirebaseOptions.currentPlatform,
    );
  }
}

// void main(List<String> args) async {
//   WidgetsFlutterBinding.ensureInitialized();
//   await initFireBase();
//   runApp(GetMaterialApp(
//     home: DataUploaderScreen(),
//   ));
// }
```

Comment these lines and again

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How to add your own paper



Add paper json

Structure

```
{
  "id": "ppr004",
  "title": "Biology",
  "image_url": "",
  "Description": "Basic Biology Multiple Choice Questions (MCQ) to practice basic Biology quiz answers",
  "time_seconds": 900,
  "questions": [
    {
      "id": "ppr004q005",
      "question": "Which organelle is found in most plants, some bacteria and some protists?",
      "answers": [
        {
          "identifier": "A",
          "Answer": "ribosomes"
        },
        {
          "identifier": "B",
          "Answer": "mitochondria"
        },
        {
          "identifier": "C",
          "Answer": "endoplasmic reticulum"
        },
        {
          "identifier": "D",
          "Answer": "chloroplasts"
        }
      ],
      "correct_answer": "D"
    }
  ]
}
```

The image name should be equal to the paper title

To upload that data to firestore database. You should run again

```
// SystemChrome.setPreferredOrientations(  
//     [DeviceOrientation.portraitUp, DeviceOrient  
//     runApp(const MyApp());  
// });  
// }  
  
// class MyApp extends StatelessWidget {  
//   const MyApp({Key? key}) : super(key: key);  
  
//   static final GlobalKey<NavigatorState> navigator  
  
//   @override  
//   Widget build(BuildContext context) {  
//     return GetMaterialApp(  
//       navigatorKey: navigatorKey,  
//       title: 'Flutter Demo',  
//       theme: Get.find<ThemeController>().getLight  
//       darkTheme: Get.find<ThemeController>().getD  
//       getPages: AppRoutes.pages(),  
//       debugShowCheckedModeBanner: false,  
//     );  
//   }  
// }  
  
Future<void> initFireBase() async {  
  await Firebase.initializeApp(  
    options: DefaultFirebaseOptions.currentPlatform,  
  );  
}  
  
Run | Debug | Profile  
void main(List<String> args) async{  
  WidgetsFlutterBinding.ensureInitialized();  
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  runApp(GetMaterialApp(  
    home: DataUploaderScreen(),  
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}
```

Comment these lines and again

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