

Grocery Store

Complete Setup Guide

Flutter Installation

How to install flutter on your local machine?

Prerequisites

- Flutter SDK
- Dart
- Java 8 or above
- Android Studio
- Xcode (Mac)
- VS Code

How to install?

Flutter SDK

Download the following installation bundle to get the latest release of the Flutter SDK. Latest versions are given below for particular platform:

- Windows: <https://flutter.dev/docs/development/tools/sdk/releases?tab=windows>
- MacOs: <https://flutter.dev/docs/development/tools/sdk/releases?tab=macos>
- Linux: <https://flutter.dev/docs/development/tools/sdk/releases?tab=linux>

Please follow the Flutter installation guide on their official [website](#) and use the latest versions.

Official website: <https://flutter.dev/docs/get-started/install>

Android Studio

Download Android studio from the below given link for particular platform and follow the onscreen instructions for installation.

Official download link: <https://developer.android.com/studio#downloads>

Xcode (Only for MacOs)

Download Xcode from the below given link and follow the onscreen instructions for installation.

Official download link: <https://developer.apple.com/xcode/>

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VS Code

Download VS Code from the below given link and follow the onscreen instructions for installation.

Official download link: <https://code.visualstudio.com/download>

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Stripe API Setup

The grocery app uses Stripe payment API for payments. Go to the below given link and create an account on Stripe and follow the instructions given below.

Stripe link: <https://dashboard.stripe.com/register>

Once you have created the account verify your email address and **Activate** the Stripe account by clicking on **Activate your account** found on left side bar of the stripe dashboard.

For activating you will have to fill out all the required information and once that is done submit and wait for the activation.

The screenshot shows the Stripe dashboard interface. On the left, there is a sidebar with various navigation options: Home, Activate your account (which is highlighted with a blue arrow), Payments, Balances, Customers, Connected accounts, Products, Reports, Developers, Viewing test data, and Settings. The main content area has a dark header with 'TEST DATA' and a search bar. Below the header, it says 'Welcome, Ishan—follow these steps to get started'. There are three main steps listed: 'Find the right integration for your business', 'Get your test API keys', and 'Activate your Stripe account'. The 'Activate your Stripe account' step is expanded, showing a sub-step: 'Before you start processing payments, tell us a few details about you and the products or services you're selling.' A blue button labeled 'Start now →' is visible. At the bottom of this section, there is a link 'Get your live API keys'. Below this, there is a 'Today' section with a chart showing Gross volume (₹323.76) and Yesterday (₹132.60). To the right, there is an INR Balance of ₹8,284.81 and a Payouts section. At the bottom, there is a 'Reports overview' section with a chart showing Gross volume (-66.1%), Net volume from sales (-29.7%), and New customers (0.0%).

After the activation get your API keys (i.e: Publishable key & Secret key) then copy them into a notepad for a while (DO NOT SHARE THESE WITH ANYONE).

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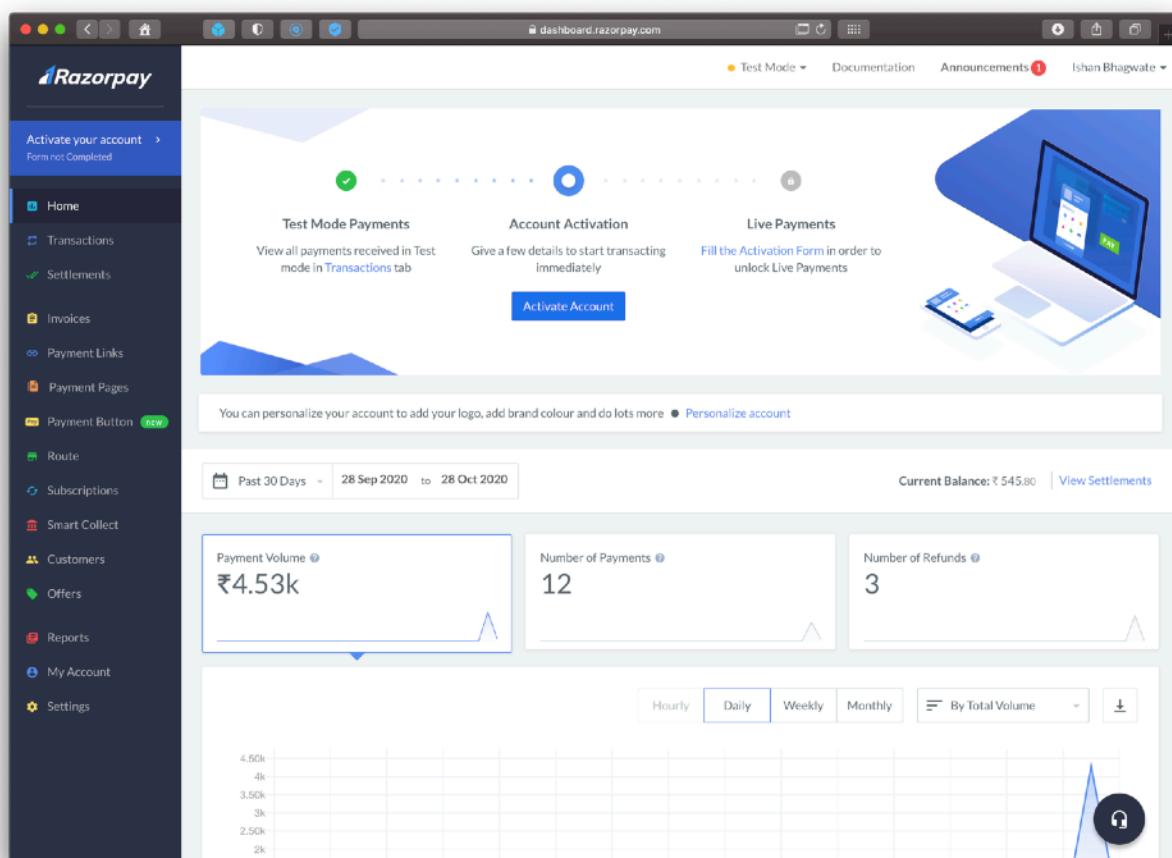
Razorpay API Setup

The grocery app uses Razorpay payment API for payments. Go to the below given link and create an account on Razorpay and follow the instructions given below.

Razorpay link: <https://razorpay.com>

Once you have created the account verify your email address and **Activate** the Razorpay account by clicking on **Activate your account** found on left side bar of the razorpay dashboard.

For activating you will have to fill out all the required information and once that is done submit and wait for the activation.



After the activation get your API keys (i.e: Key ID & Key Secret) then copy them into a notepad for a while (DO NOT SHARE THESE WITH ANYONE).

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Firebase Functions Setup

Go to this link: <https://firebase.google.com/docs/functions/get-started#set-up-node.js-and-the-firebase-cli>

Now follow the given instructions to setup firebase functions. You will need to setup node.js, npm and **firebase-tools** in order to deploy the firebase functions. Once all these pre-requisites are completed follow the below given instructions:

Initialise **firebase functions** by following the instructions in the given link:

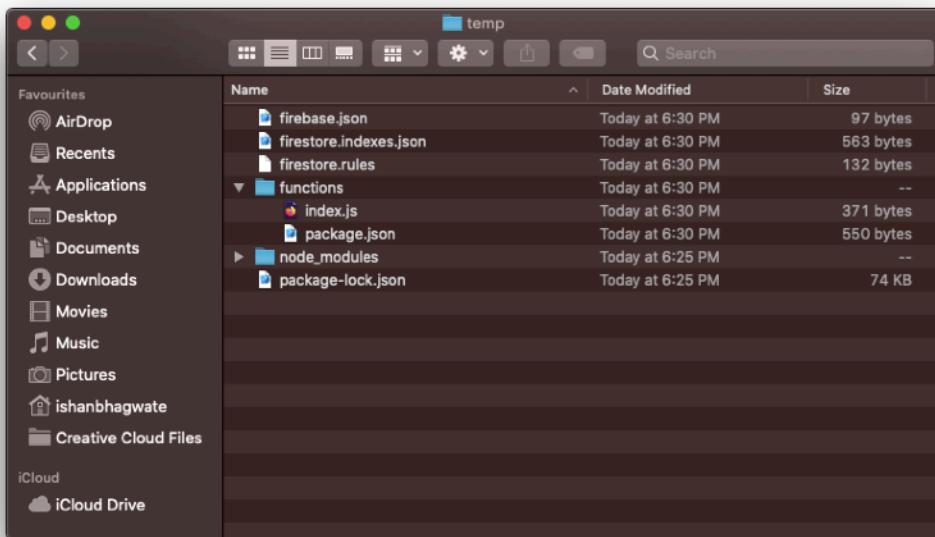
<https://firebase.google.com/docs/functions/get-started#initialize-your-project>

Make sure to not enable “ES Lint” as it will give these errors.

You’ll be asked if you want to enable es lint after you run
\$ firebase init functions

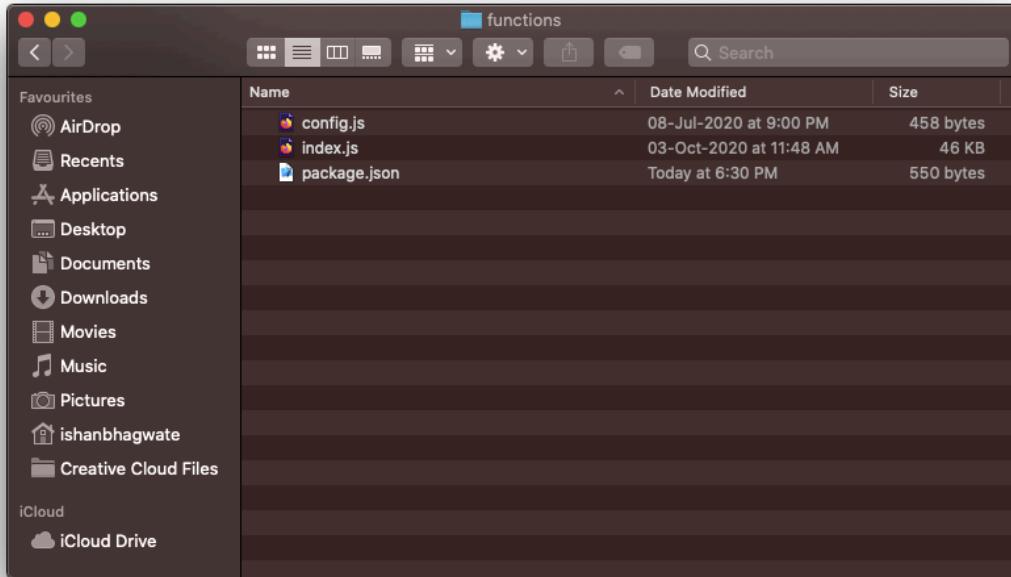
So just type - “N”

Once everything is setup you will have a folder similar to as shown:



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Open the `grocery_store_firebase_function` folder in the provided setup files folder and copy all the files i.e: `index.js`, `config.js` and `package.json` to the newly created firebase functions folder and paste it in functions folder and replace `index.js` and `package.json` as shown:



After that open `config.js` file and edit the following two values:

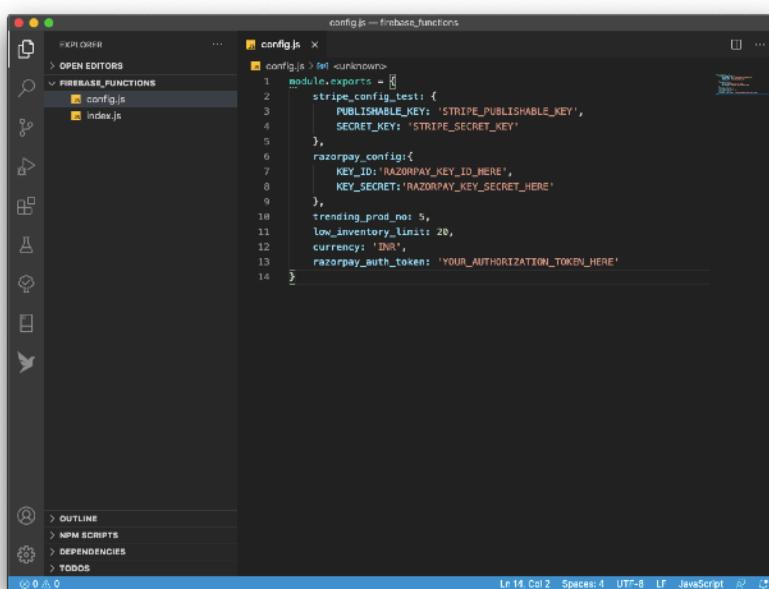
`PUBLISHABLE_KEY` and `SECRET_KEY`

Replace them with the Stripe API keys that we copied earlier.

Also now replace Razorpay API keys that we copied earlier.

Also you can modify `low_inventory_limit` and `trending_prod_no` values as per your need.

To get the razorpay_auth_token -> Download Postman and get the Authorization token for it.



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Once all this is setup you are ready to deploy the function but first you will have to subscribe to **Blaze plan** in firebase as the functions require few features from it.

You can opt for **Blaze plan** from Firebase console.

Now if you have done all this type the following command from the terminal in VS-Code:

—> `firebase deploy`

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Firebase Setup

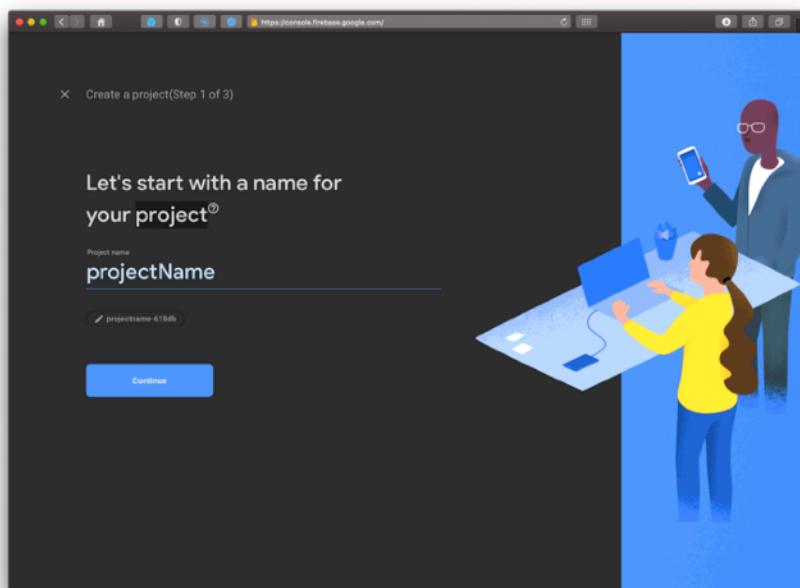
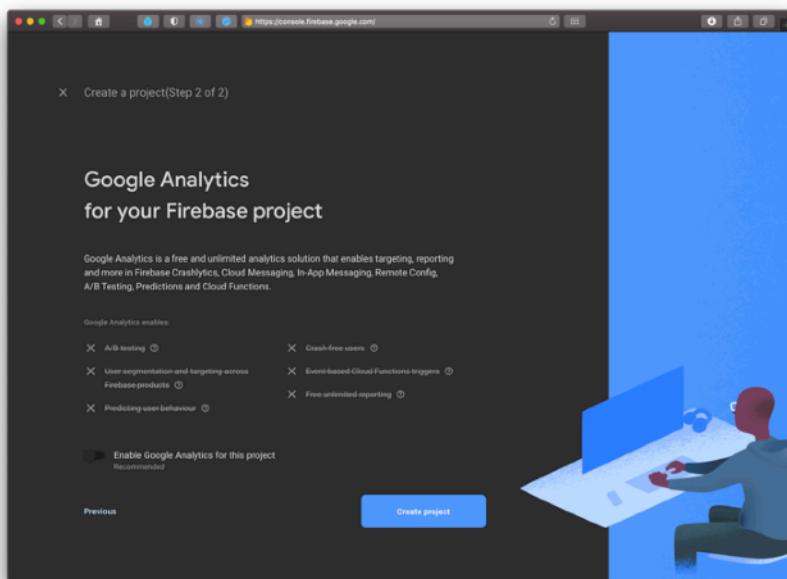
Grocery Store uses Firebase as backend, to setup firebase go to the link below and create a new google account that will be then used as firebase account for the app.

Link: <https://firebase.google.com>

Once you have created the account go to firebase console and click on **Add project**:

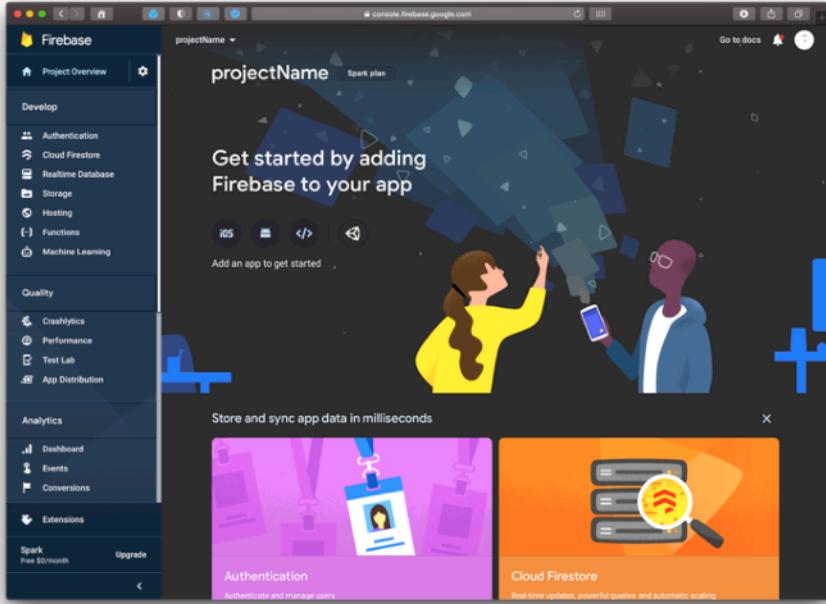
Link: <https://console.firebaseio.google.com/>

Follow the onscreen instructions to create project as shown below:

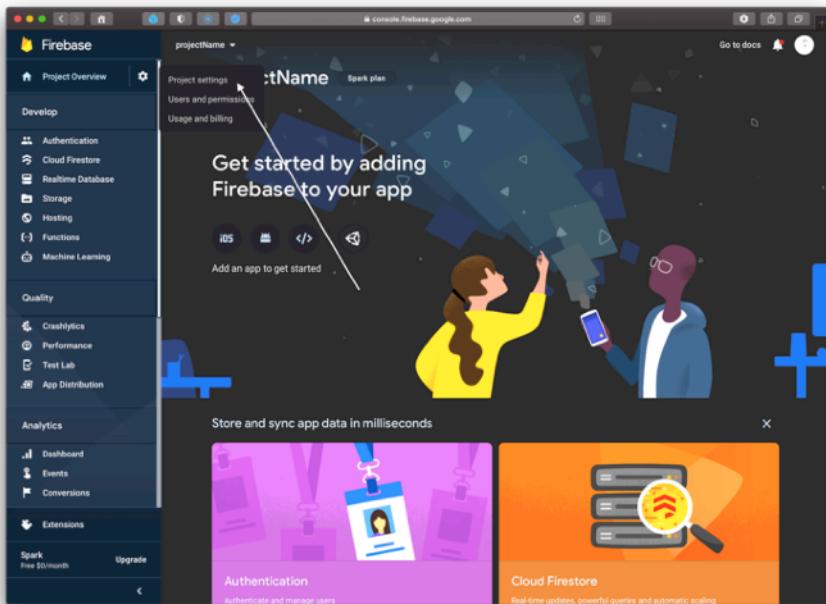


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After creating the project go to project dashboard as shown below:



Go to Project Settings:



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Now in **Project Settings** select your **Support email** as shown. This is IMPORTANT to setup otherwise app won't work as intended.

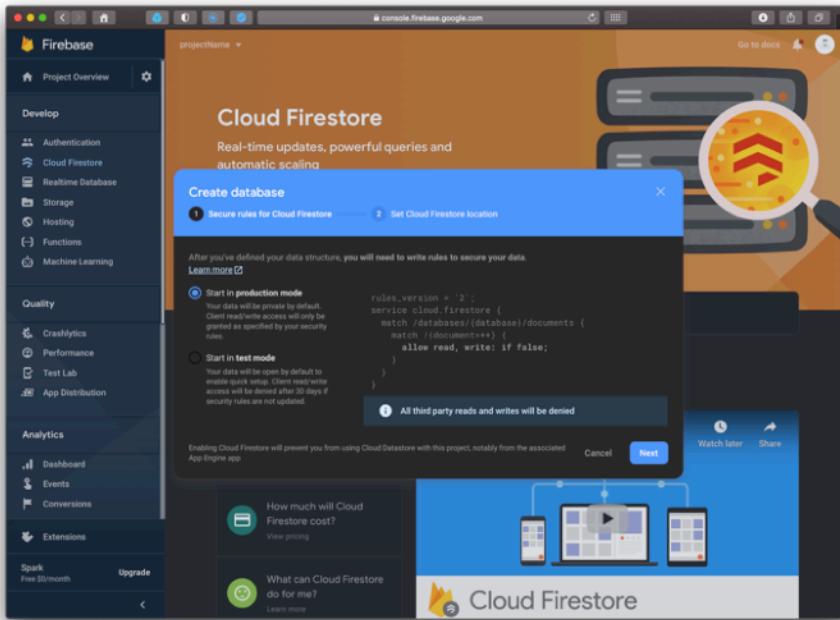
The screenshot shows the 'Settings' tab in the Firebase Project Overview. On the left sidebar, 'Cloud Firestore' is selected under 'Develop'. In the main area, under 'Your project', the 'Support email' field is highlighted with a red arrow pointing to it. The dropdown menu shows 'Not configured'.

Click on Cloud Firestore shown in the left bar and click on Create database as shown:

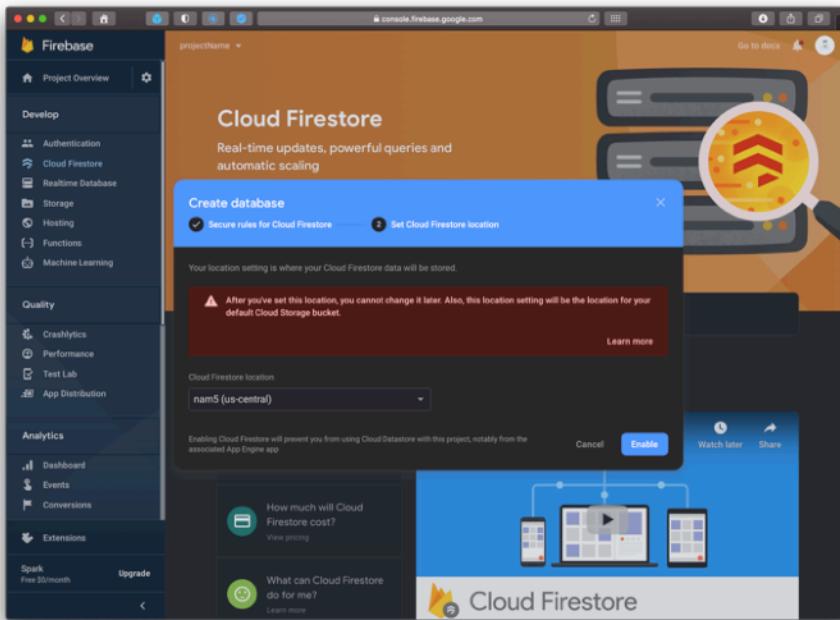
The screenshot shows the Cloud Firestore landing page. The left sidebar has 'Cloud Firestore' selected. The main area features a large 'Create database' button, which is highlighted with a red circle.

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Click Next as shown:



Now select Cloud Firestore location based on your region and click Enable as shown:
This may take some time to process so please wait for it to finish.

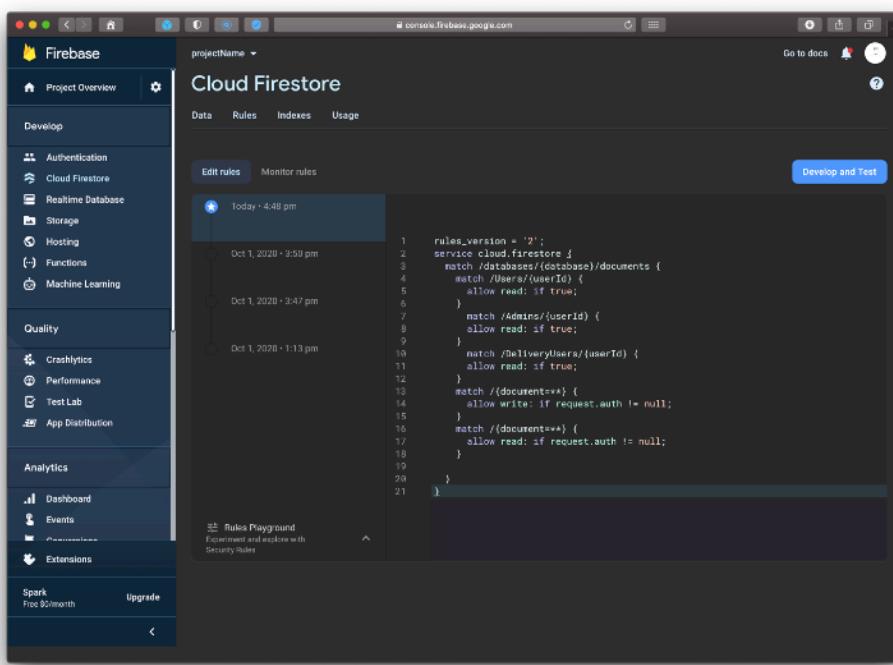


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Now click on **Rules** and modify them as shown:

Copy the code given below and **paste** it in your **Rules** —>

```
rules_version = '2';
service cloud.firestore {
  match /databases/{database}/documents {
    match /Users/{userId} {
      allow read: if true;
    }
    match /Admins/{userId} {
      allow read: if true;
    }
    match /DeliveryUsers/{userId} {
      allow read: if true;
    }
    match /{document=**} {
      allow write: if request.auth != null;
    }
    match /{document=**} {
      allow read: if request.auth != null;
    }
  }
}
```



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Now click on Indexes and follow the steps as shown:

Collection ID	Fields indexed	Query scope	Status
Orders	orderStatus Ascending, refundStatus Ascending	Collection	Enabled
Orders	customerEmail Ascending, orderTimestamp Descending	Collection	Enabled
Orders	orderStatus Ascending, orderTimestamp Descending	Collection	Enabled

Click on Add index and then fill the form as shown below:

Create a composite index

Cloud Firestore uses composite indexes for compound queries not already supported by single-field indexes (e.g. combining equality and range operators).

Recommended: Instead of defining a composite index manually, run your query in your app code to get a link for generating the required index.

Collection ID: Orders

Fields to index: At least two fields required*

- 1. orderStatus Ascending
- 2. refundStatus Ascending
- 3. orderTimestamp Descending

Add field

Query scopes:

- Collection**: For queries within a specific collection path
- Collection group**: For queries across all collectors with the same collection ID

Add index

Create a composite index

Cloud Firestore uses composite indexes for compound queries not already supported by single-field indexes (e.g. combining equality and range operators).

Recommended: Instead of defining a composite index manually, run your query in your app code to get a link for generating the required index.

Collection ID: Orders

Fields to index: At least two fields required*

- 1. orderStatus Ascending
- 2. refundStatus Ascending
- 3. orderTimestamp Descending

Add field

Query scopes:

- Collection**: For queries within a specific collection path
- Collection group**: For queries across all collectors with the same collection ID

Add index

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Now again click on **Add index** and follow the same process for these other two indexes:

2nd index details:

The screenshot shows the 'Create a composite index' dialog in the Firebase Cloud Firestore interface. The 'Collection ID' is set to 'Orders'. The 'Fields to index' section contains two fields: '1 custDetails.uid' with 'Ascending' sort order and '2 orderTimestamp' with 'Descending' sort order. To the right, a table lists four document snapshots with fields 'open', 'Status', 'on', and 'Enabled'. A blue 'Add index' button is visible at the top right of the dialog.

3rd index details:

The screenshot shows the 'Create a composite index' dialog in the Firebase Cloud Firestore interface. The 'Collection ID' is set to 'Orders'. The 'Fields to index' section contains two fields: '1 orderStatus' with 'Ascending' sort order and '2 orderTimestamp' with 'Descending' sort order. To the right, a table lists four document snapshots with fields 'open', 'Status', 'on', and 'Enabled'. A blue 'Add index' button is visible at the top right of the dialog.

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At last check if all the three **Indexes** look like given below or not. If yours look different please follow the process again.

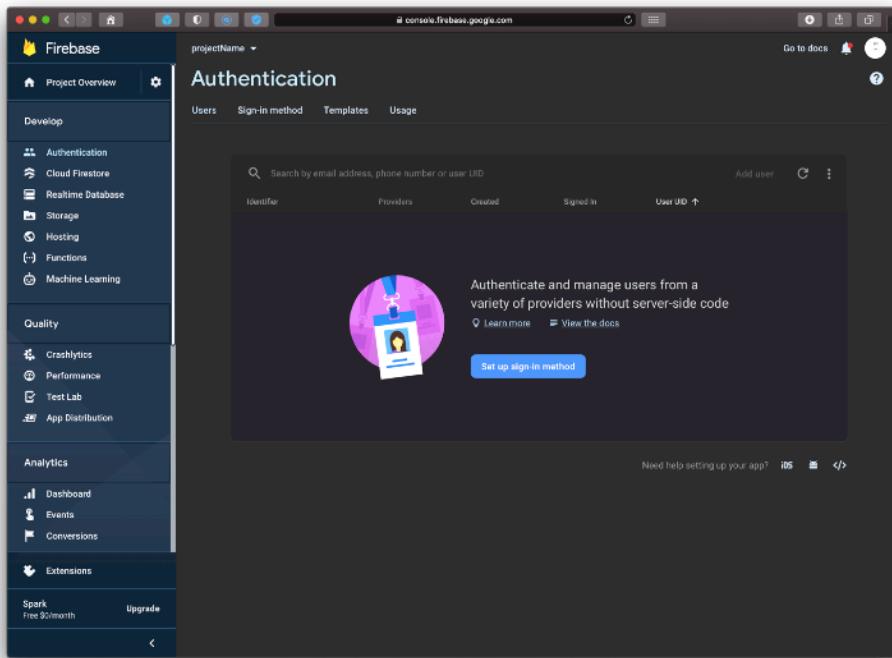
The screenshot shows the Firebase Cloud Firestore interface. On the left, there's a sidebar with sections for Project Overview, Develop (Authentication, Cloud Firestore, Realtime Database, Storage, Hosting, Functions, Machine Learning), Quality (UserTesting, Performance, TestLabs), Analytics (Dashboard, Events, Conversions, Audiences, Funnels, Extensions), and Blaze (Press as you go, Modify). The main area is titled 'Cloud Firestore' and shows the 'Grocery Store Demo' project. It has tabs for Data, Rules, Indexes, and Usage. Under Indexes, it shows two tabs: Composite and Single field. A table lists indexes for the 'Orders' collection:

Collection ID	Fields indexed	Query scope	Status
Orders	orderStatus Ascending, refundStatus Ascending, orderTimestamp Descending	Collection	Enabled
Orders	custDetails.uid Ascending, orderTimestamp Descending	Collection	Enabled
Orders	orderStatus Ascending, orderTimestamp Descending	Collection	Enabled

A blue 'Add index' button is located at the top right of the table.

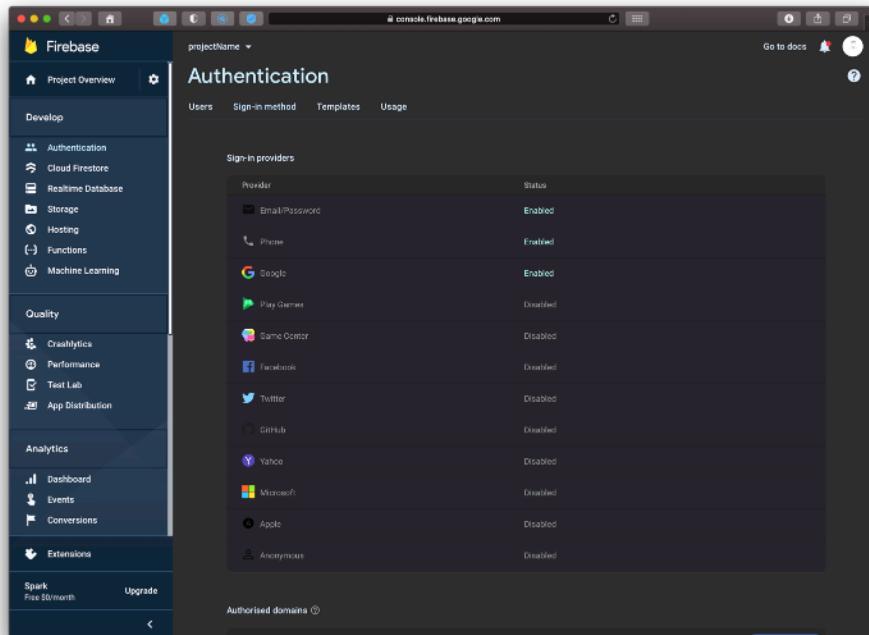
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Click on Authentication shown in the left bar and click on Setup sign-in method as shown:



The screenshot shows the Firebase console's Authentication screen. On the left sidebar, 'Authentication' is selected under the 'Develop' section. The main content area is titled 'Authentication' and contains a search bar and tabs for 'Users', 'Sign-in method', 'Templates', and 'Usage'. A central panel features a placeholder image of a person's badge and the text: 'Authenticate and manage users from a variety of providers without server-side code'. Below this is a blue button labeled 'Setup sign-in method'.

Now Enable the Email/Password, Phone and Google sign in providers as shown:



The screenshot shows the same Firebase Authentication screen as above, but now with several providers enabled. The 'Sign-in providers' table lists the following providers and their status:

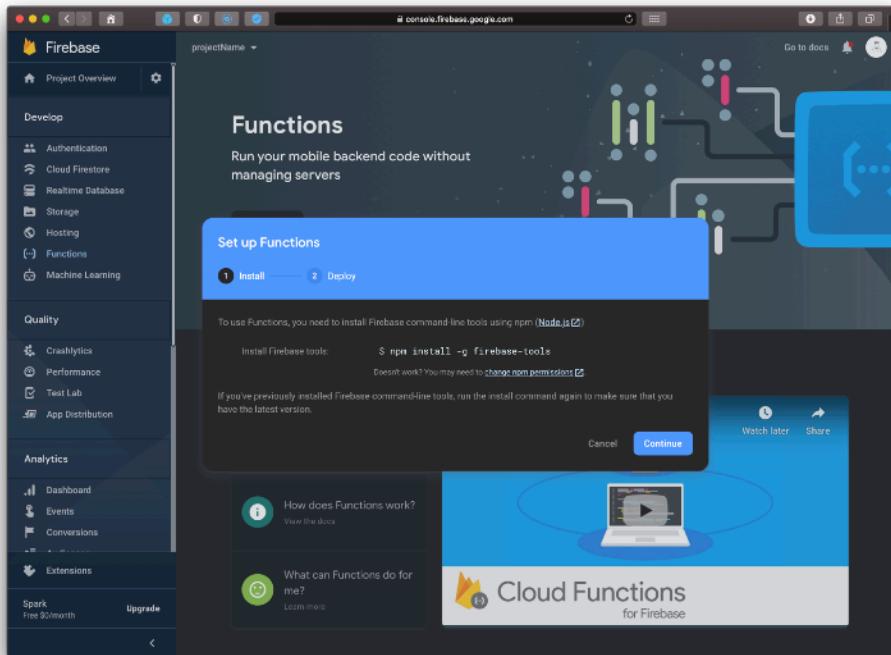
Provider	Status
Email/Password	Enabled
Phone	Enabled
Google	Enabled
Play Games	Disabled
Game Center	Disabled
Facebook	Disabled
Twitter	Disabled
Github	Disabled
Yahoo	Disabled
Microsoft	Disabled
Apolo	Disabled
Anonymous	Disabled

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Click on Storage shown in the left bar and click on Get started -> Next -> Done as shown:

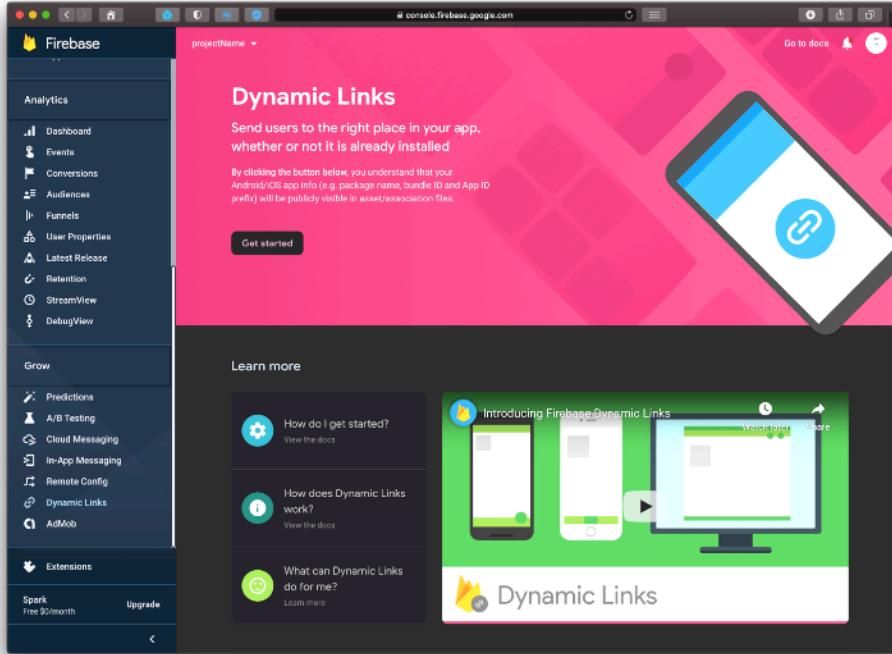


Click on Functions shown in the left bar and click on Continue -> Finish as shown:



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Click on Dynamic Links shown in the left bar and click on Get started as shown:

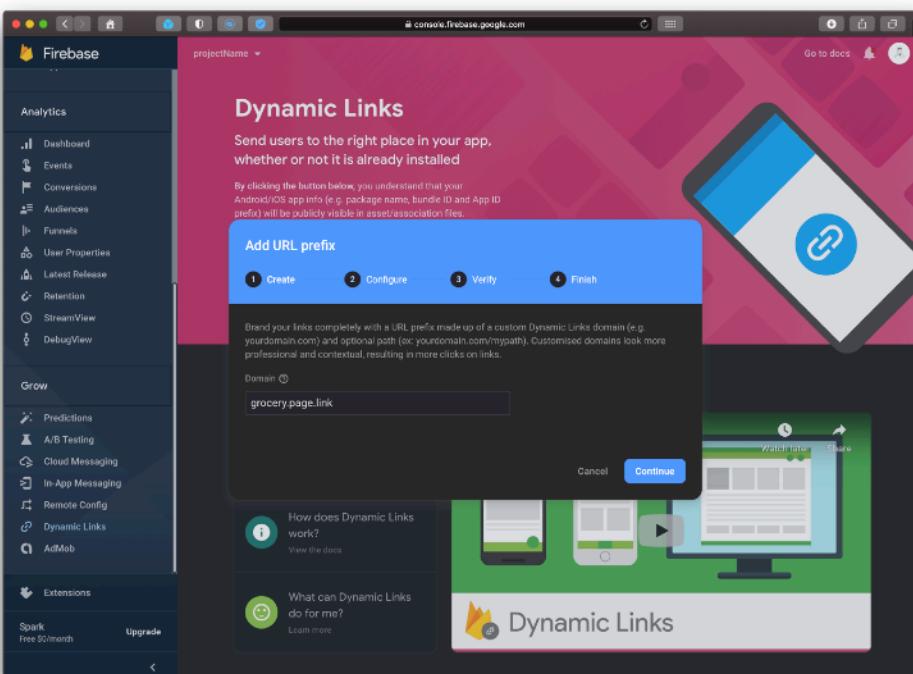


Now enter your domain or if you don't have one then simply type as follows:

YOUR_APP_NAME.page.link

Copy this URL to a notepad for later use.

Click Continue -> Finish

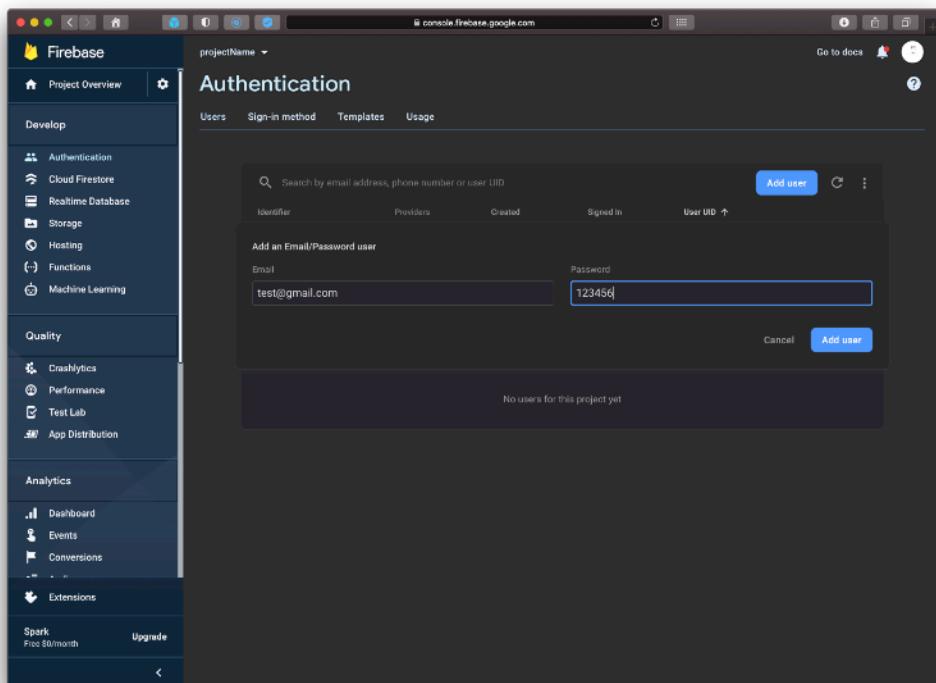


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Admin Setup

Go to Authentication shown in the left bar and click on Add user then enter your Email and Password as shown:

This email and password will be used as the PRIMARY ADMIN for the Seller/Admin app so do not share these credentials with anyone.



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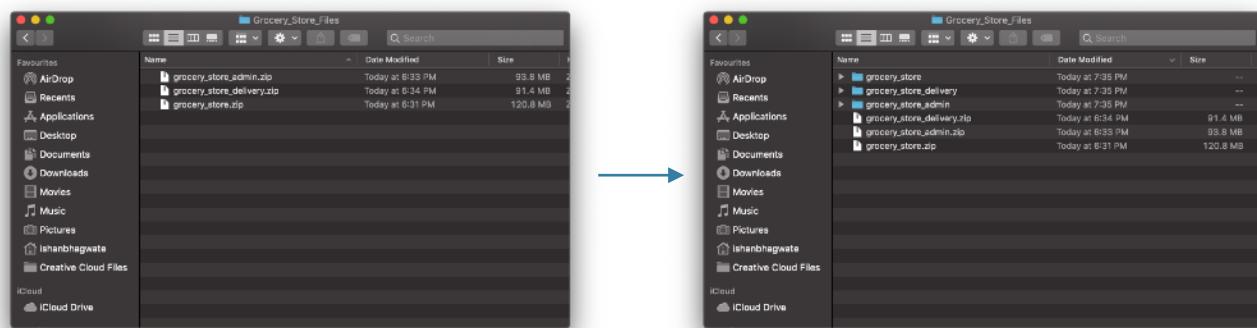
Building the App

This will help you setup and configure the codebase provided with step by step instructions.

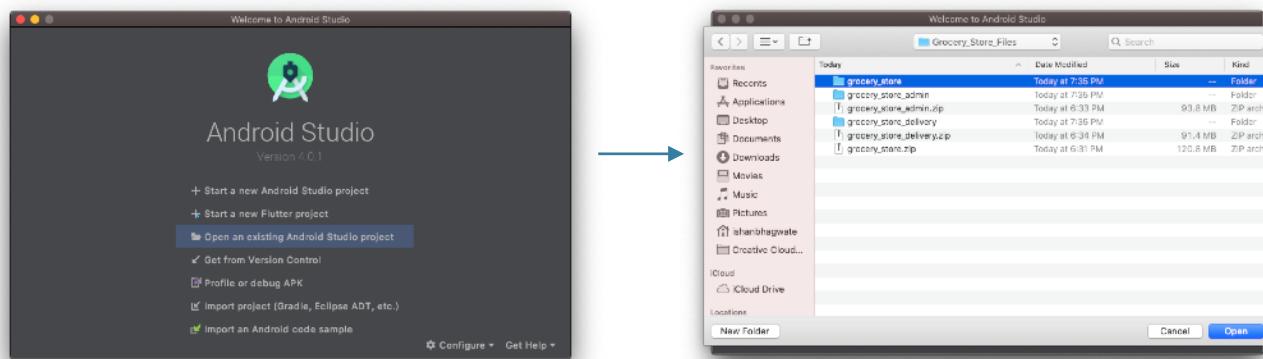
Open the .zip file provided and extract all the data.

In that you will find 3 folders. These are all the app codebases i.e: **Grocery Store** (Customer app), **Grocery Store Admin** (Admin app), and **Grocery Store Delivery** (Delivery app).

Extract all three .zip files as shown:



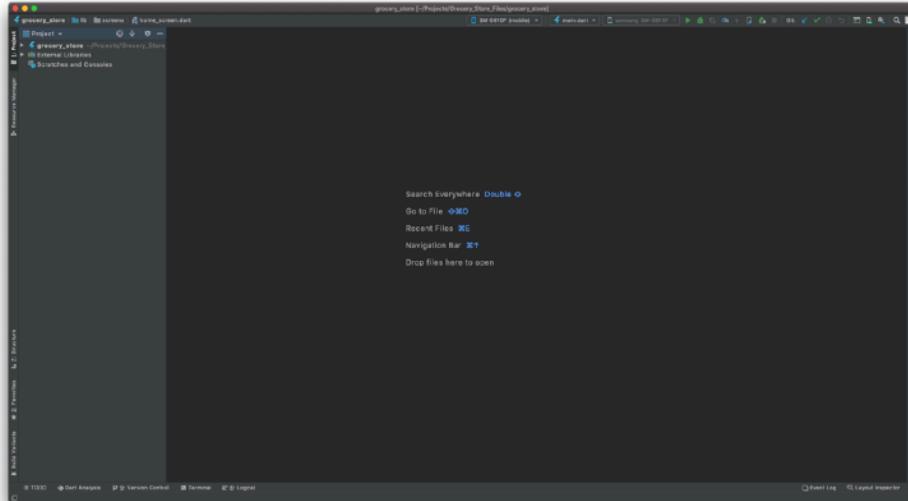
Now open **Android Studio** and click on **Open an existing Android Studio project** -> Navigate to the extracted folder and select **grocery_store** project folder as shown:



Now similarly open other two projects/folders as well in different **Android Studio** windows. Now when you open the projects for the first time Android Studio may ask to download some Gradle files so download them and proceed.

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Once everything is up and running you will see a screen as shown:



Now click on the **grocery_store** shown in left bar and navigate to the **config.dart** file as shown:

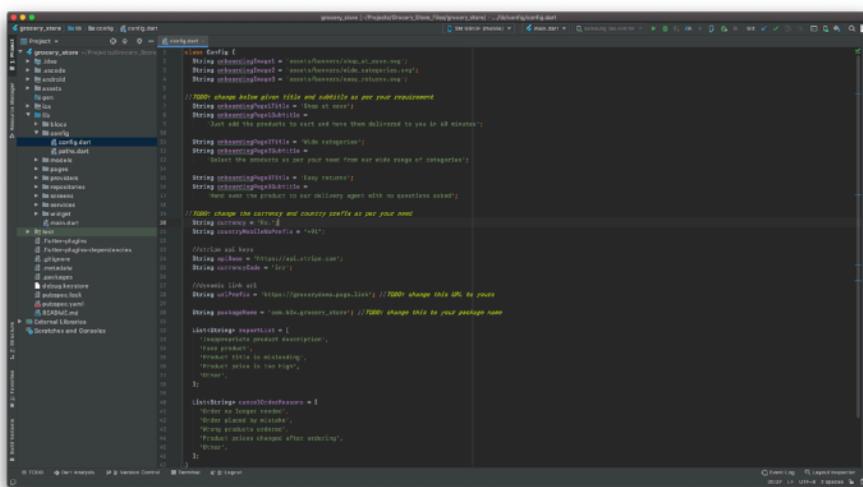
In config.dart file you can configure your Grocery Store app as per your requirements. For exa. If you want to change your currency to \$ then change the value as follows:

String currency = 'Rs.' → **String currency = '\$'**

Paste the link we copied earlier to notepad in **urlPrefix**.

Change the **packageName** to yours as follows and copy it to notepad:

com.b2x.grocery_store → **com.yourCompanyName.grocery_store** (without any white spaces)



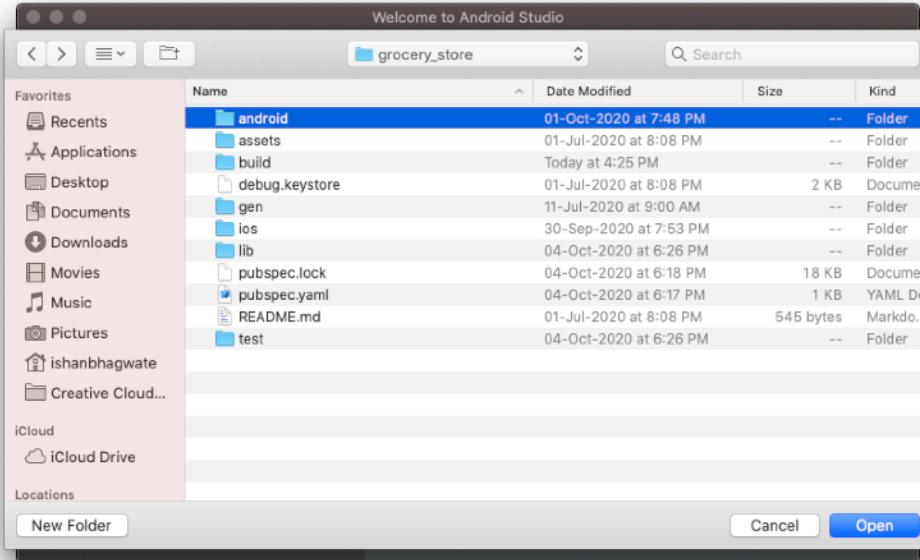
Similarly open the **config.dart** in other two apps as well and modify them as per the given instructions in those files.

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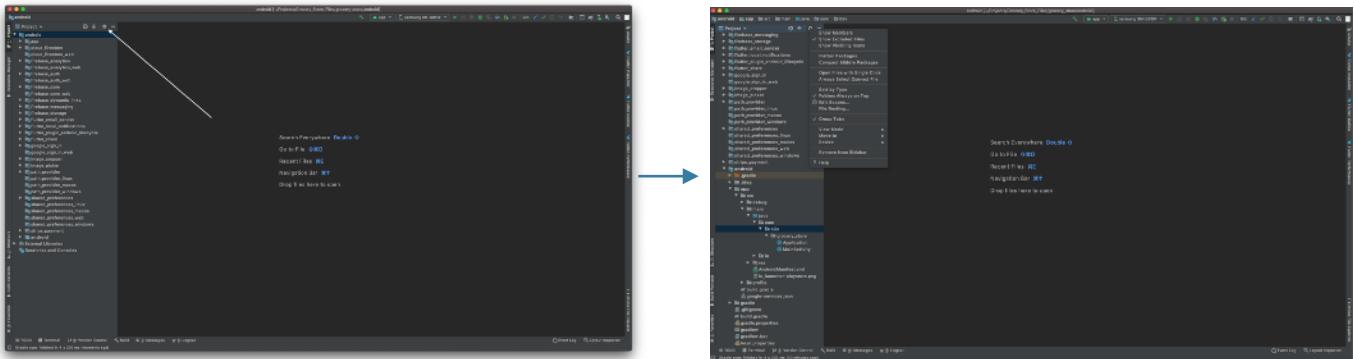
Changing the package name

1) Android:

Now in Android Studio click on File -> Open -> go to grocery_store folder, select android and click Open as shown:



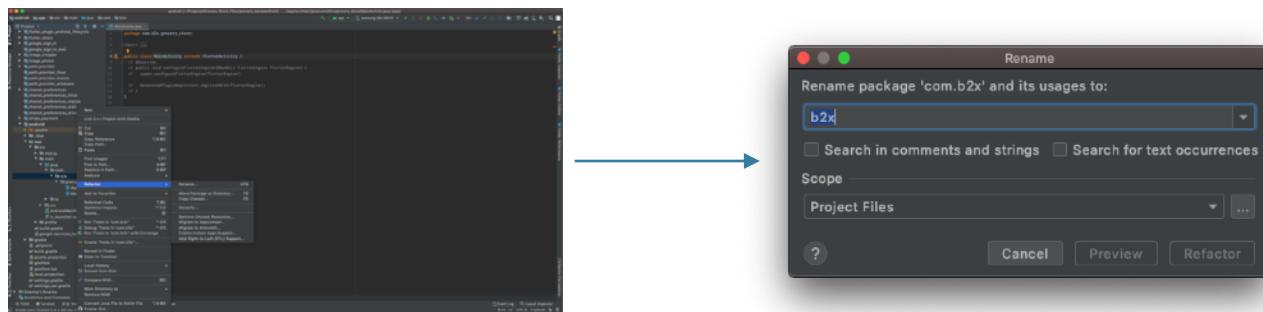
Click on the icon shown below and untick Compact Middle Packages as shown:



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Now click on the android shown in left bar and navigate to the **MainActivity** file.

Right click on b2x -> Refactor -> Rename as shown:

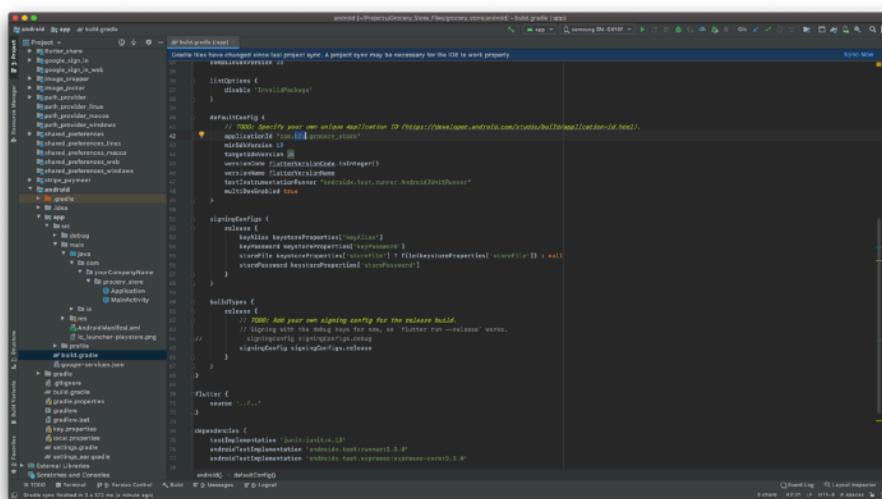


Here change the package name to the name which we earlier copied to notepad.

It will look something like: **com.companyName.grocery_store**.

Copy **companyName** and paste in the above given window and click on **Refactor**.

Go to **build.gradle** file as shown and change the **applicationId** to the above copied package name.

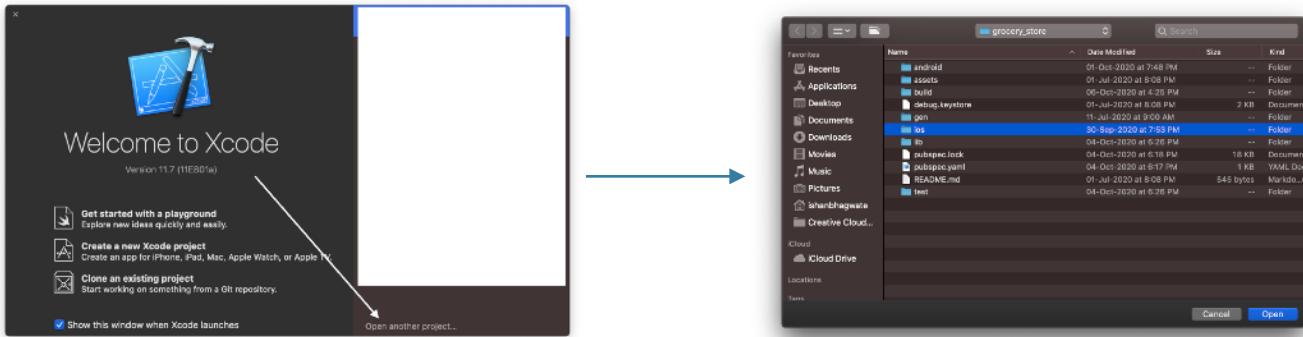


Now repeat this process of changing the package name for other two apps also.

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2) iOS:

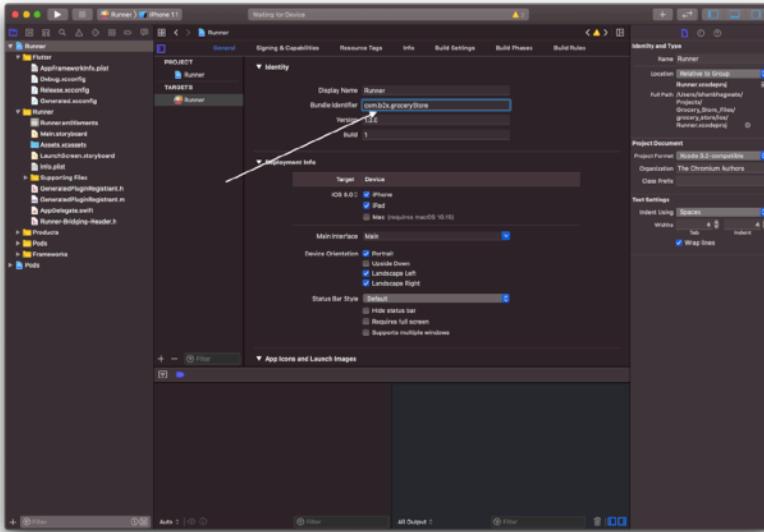
Open Xcode -> Click Open Project in right bottom corner -> Navigate to **grocery_store** folder -> Select **ios** folder and click Open as shown:



Now Double click on Runner and change the **Bundle identifier**.

Just replace **b2x** with **yourCompanyName**

It will look something like: **com.yourCompanyName.groceryStore** as shown:



Copy the **bundle identifier** in a notepad.

Also please keep Android (**packageName**) and iOS (**bundle identifier**) separate as they are different.

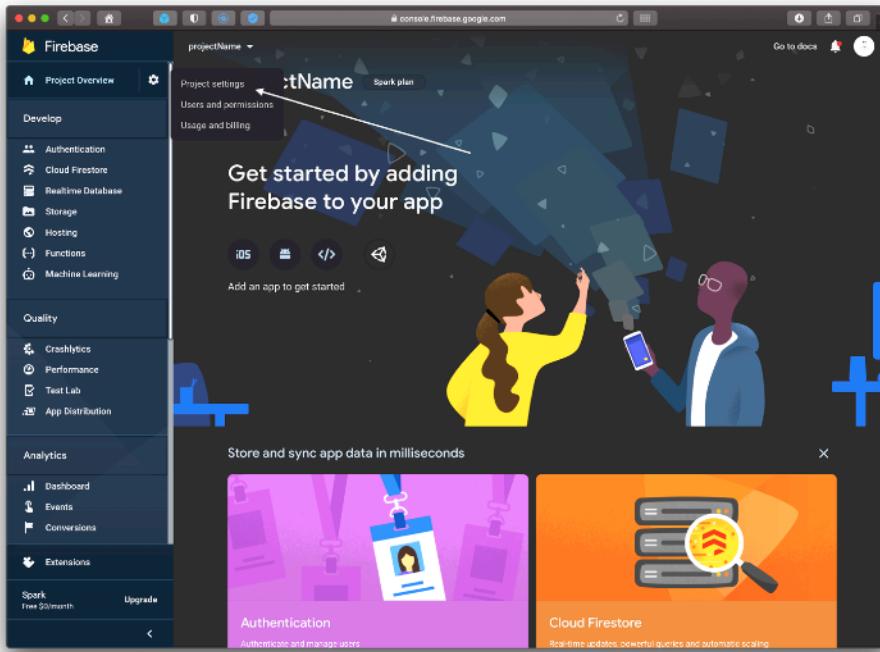
Now repeat this process of changing the **bundle identifier** for other two apps as well.

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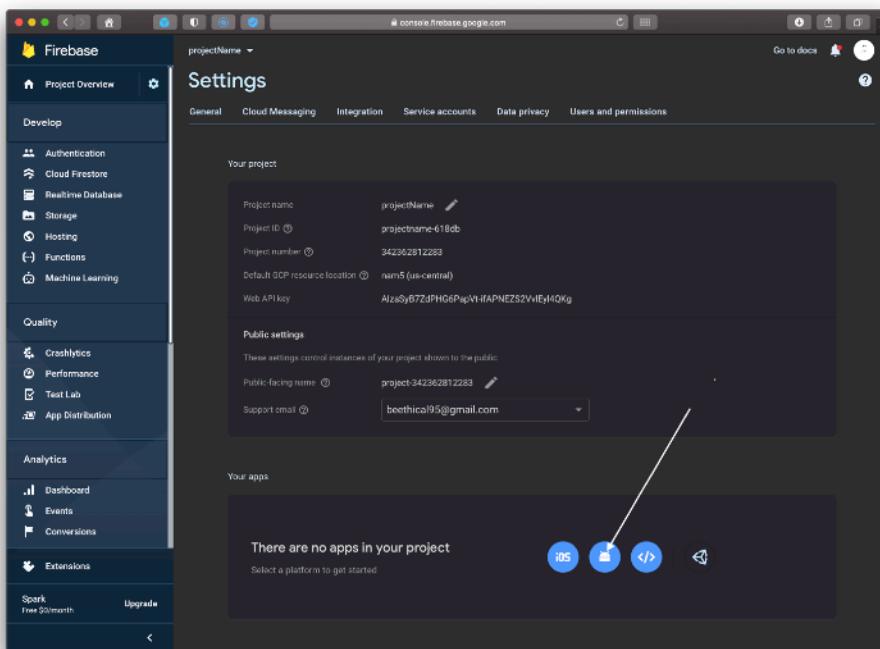
Connecting App to Firebase

1) Android

Open Firebase Console and click on **Setting** icon besides Project Overview -> Project settings as shown:



Now click on the **Android** logo as shown:

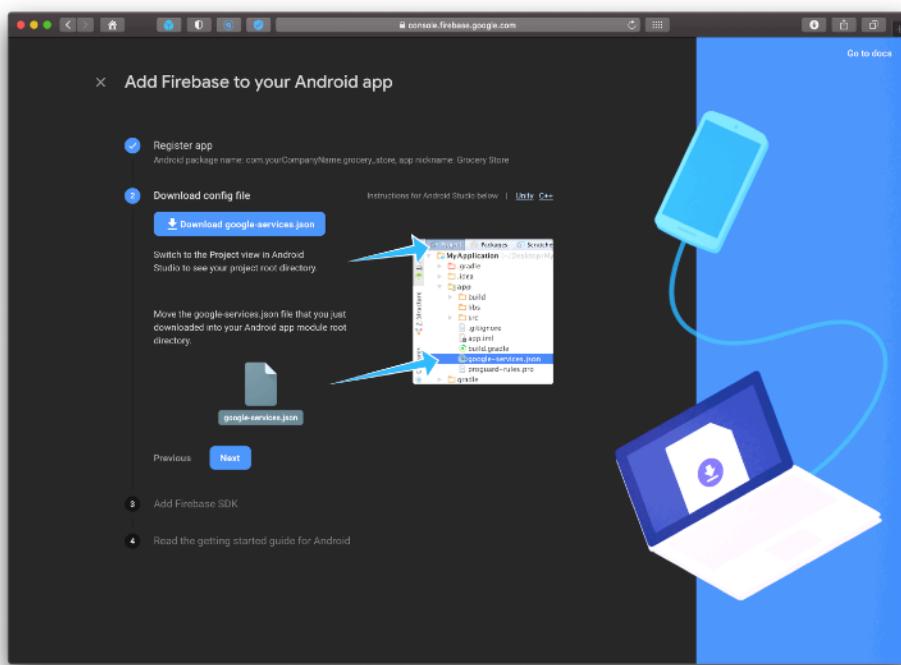


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Now follow the on screen instructions as shown:

Here we will show you how to connect the Grocery Store app to firebase and same steps are to be performed for other two apps (i.e. Admin app & Delivery app) as well.

- 1) Paste the **packageName** that we copied earlier. (Paste the respective packageName i.e Grocery Store packageName for Grocery Store app and so on)
- 2) Type your app name eg: Grocery Store
- 3) Click on **Register app**

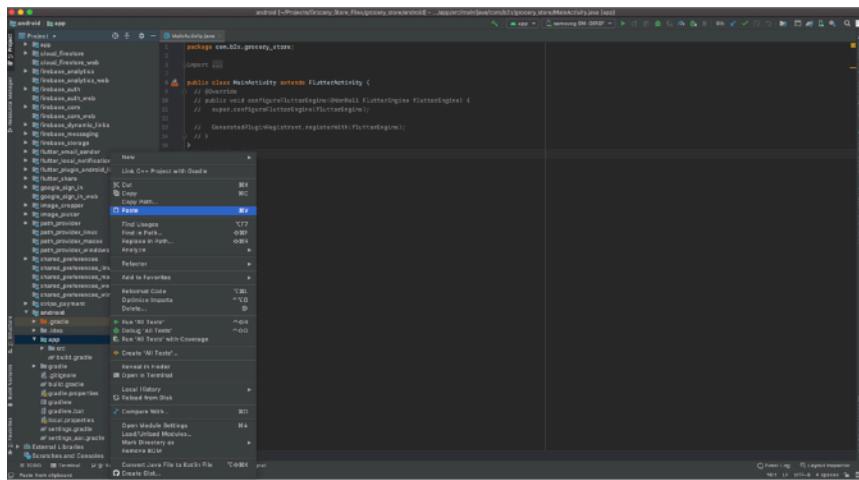


Click on **Download google-services.json** -> Next

Open Android Studio -> Click on Open -> Select the Project if not opened already

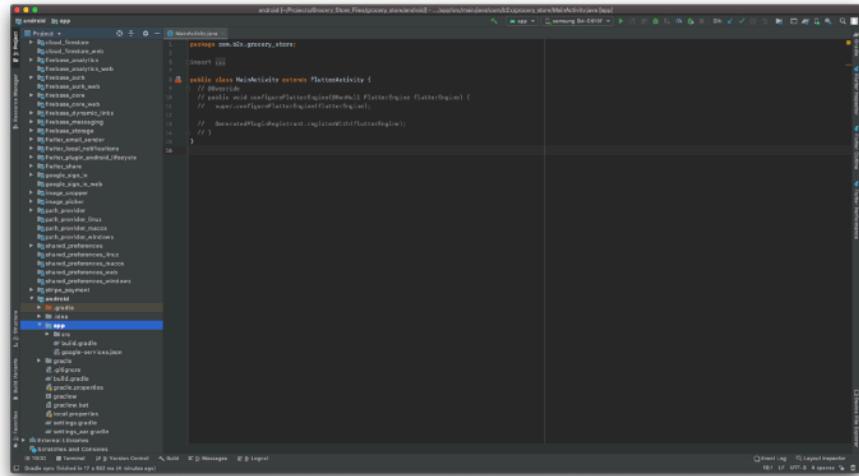
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Navigate to **app** folder as shown and paste the **google-services.json** file that we just downloaded by right-clicking on **app** folder -> **Paste**:



After pasting the file it should look something like this shown below:

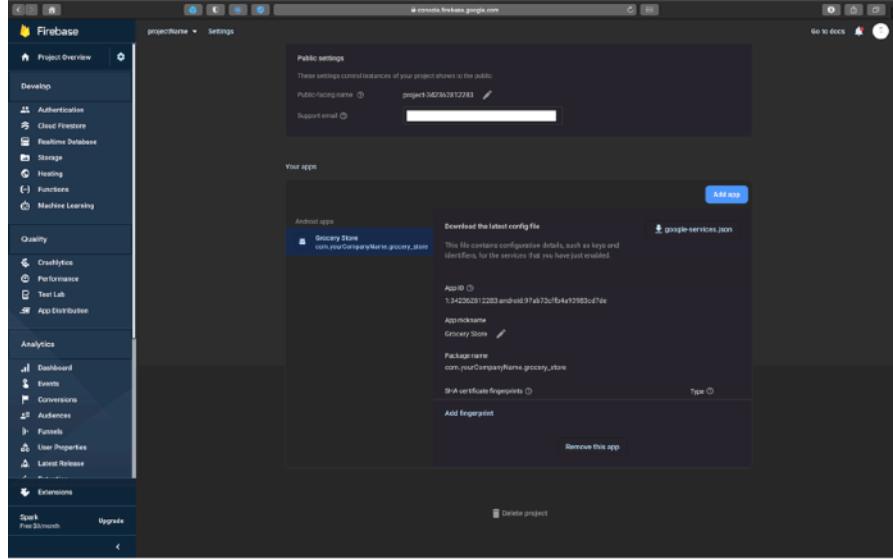
Make sure to check if you have pasted the file in **app** folder and not in sub-folders otherwise it can cause issues later.



Now in the firebase console click **Next** -> **Continue to the console**

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You can find the newly added app in the firebase console as shown:

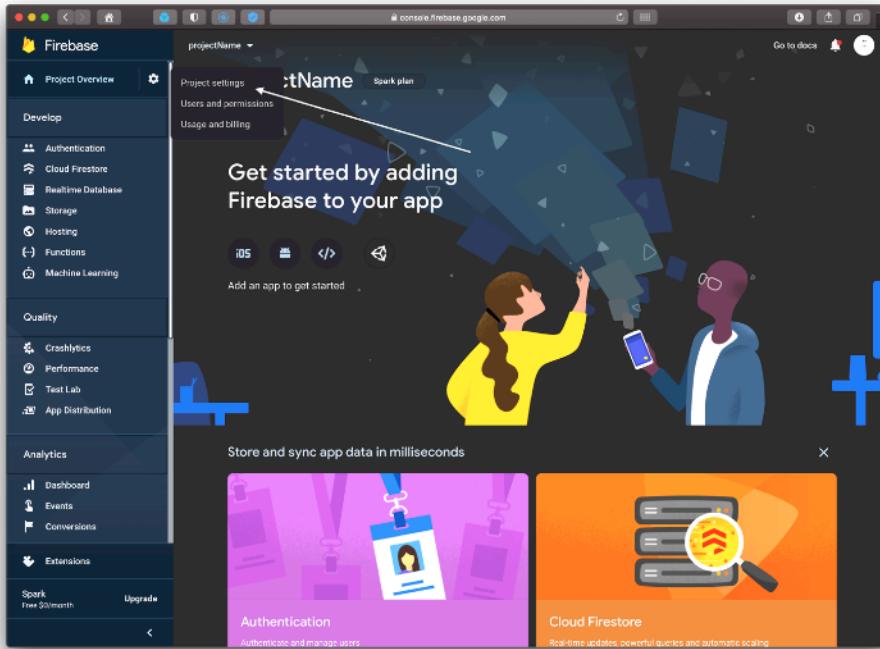


Similarly follow these same steps to add other 2 android apps as well.

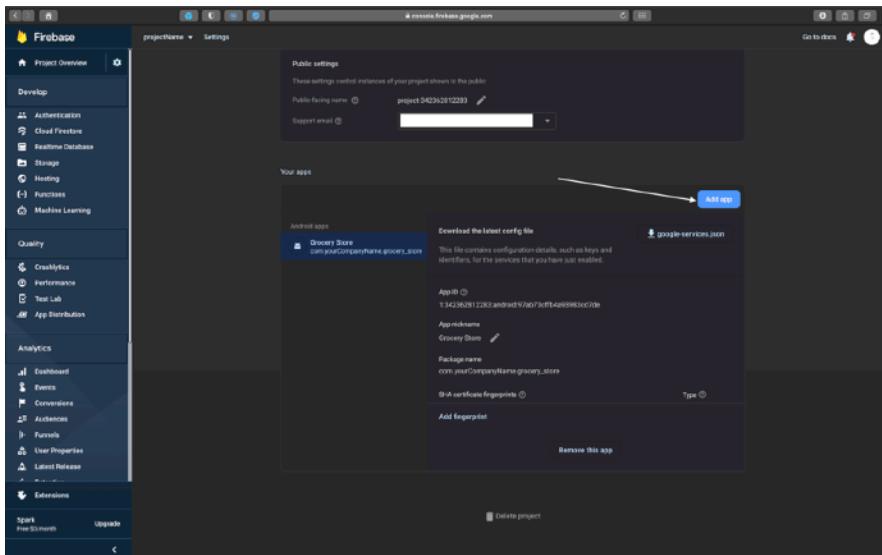
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2) iOS

Open Firebase Console and click on **Setting icon** besides Project Overview -> Project settings as shown:



Now click on the **Add app** button and select **iOS logo** as shown:

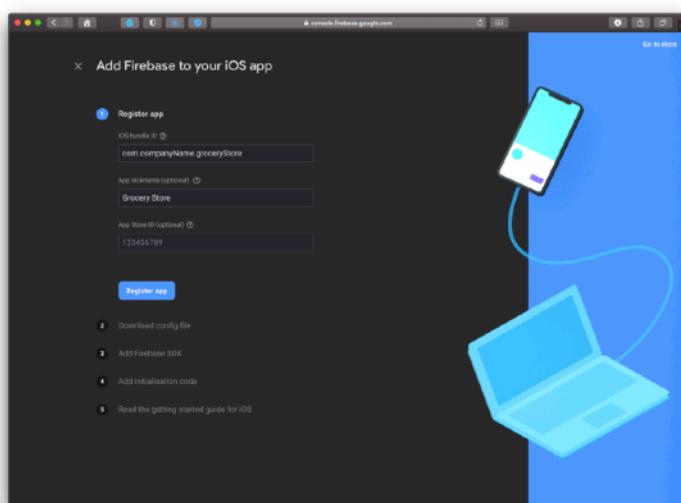


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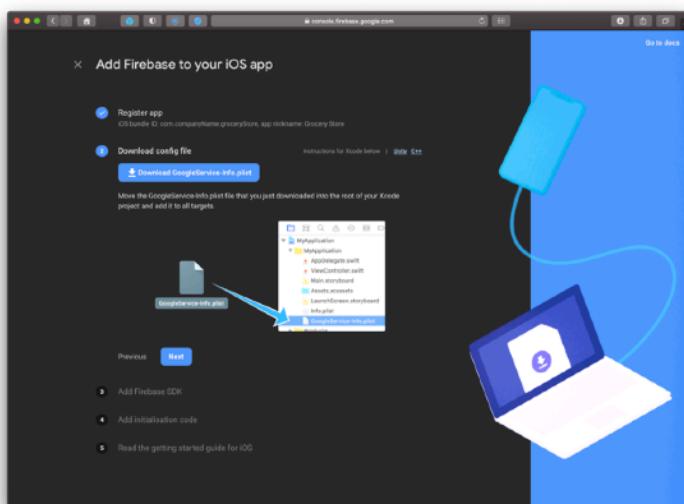
Now follow the on screen instructions as shown:

Here we will show you how to connect the Grocery Store app to firebase and same steps are to be performed for other two apps (i.e. Admin app & Delivery app) as well.

- 1) Paste the **bundle identifier** that we copied earlier. (Paste the respective **bundle identifier** i.e Grocery Store **bundle identifier** for Grocery Store app and so on)
- 2) Type your app name eg: Grocery Store
- 3) Click on **Register app**



Click on **Download GoogleService-Info.plist** -> Next



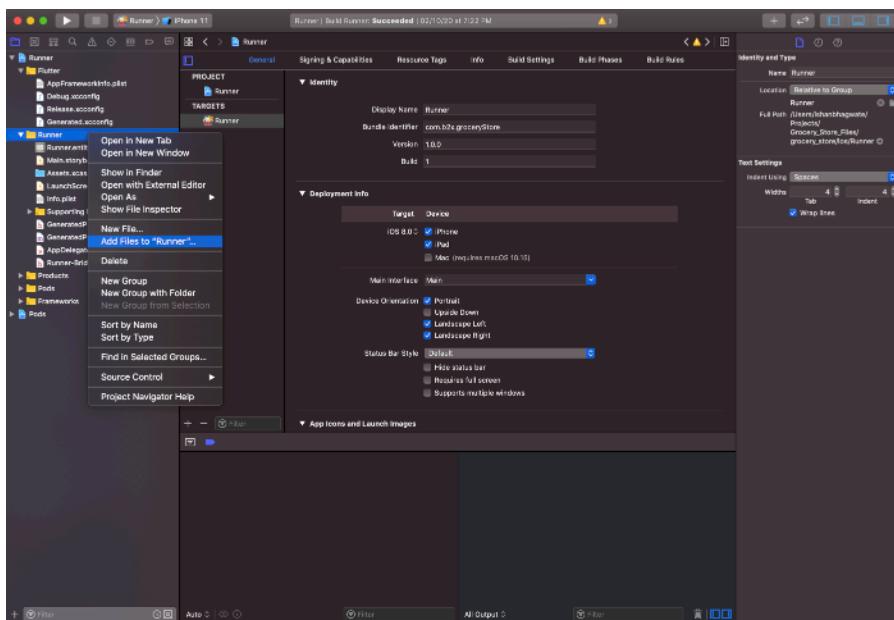
B2X_CODES

Now open Xcode -> Click on Open -> Select the Project if not opened already

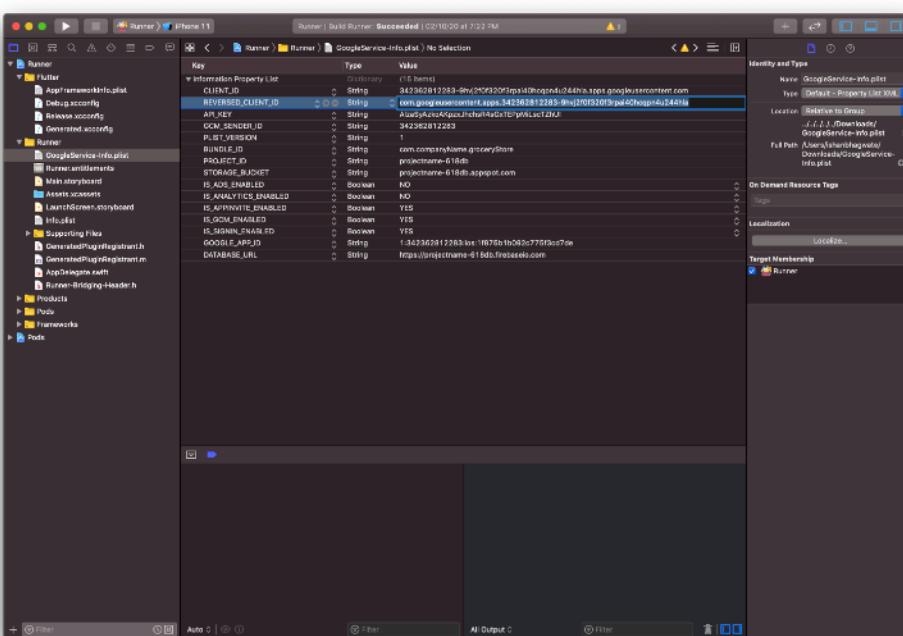
Open Xcode -> Click Open Project in right bottom corner -> Navigate to grocery_store (whichever app you are working with) folder -> Select ios folder and click Open as shown:

In Xcode right-click on the inner Runner folder and click on Add Files to “Runner” as shown:

Now select the recently downloaded GoogleServiceInfo.plist file and click Add.

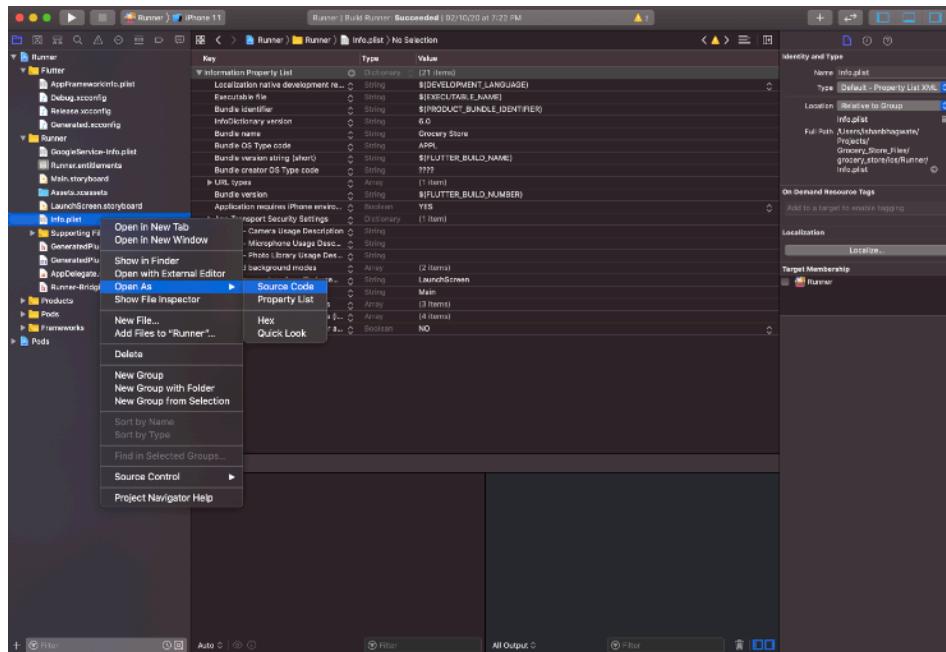


Double click on that file and copy REVERSED_CLIENT_ID value as shown:

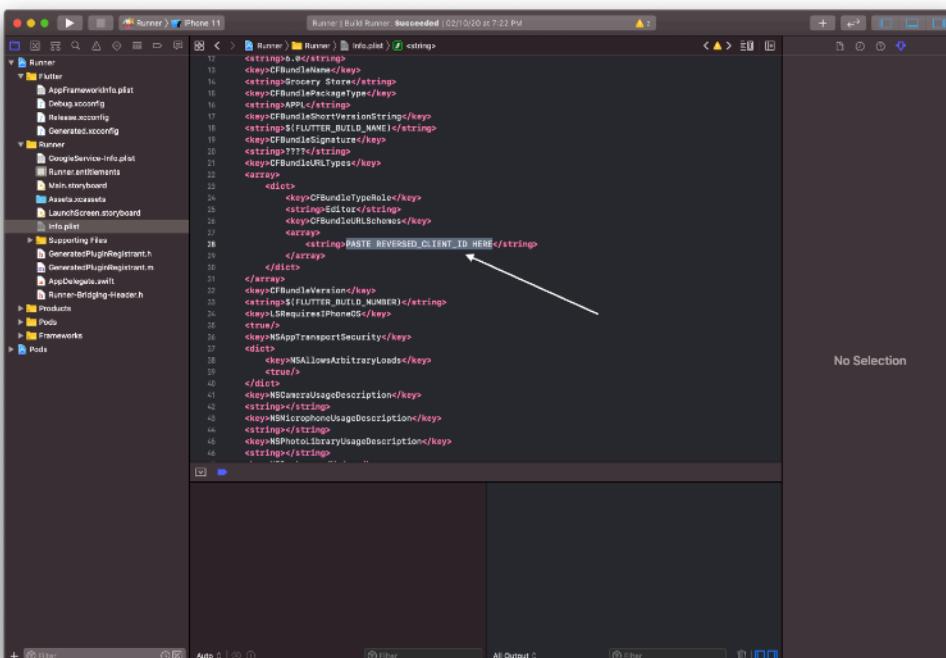


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Now right click on Info.plist file and Select Open As -> Source Code as shown:



Paste the copied REVERSED_CLIENT_ID in the place of PASTE REVERSED_CLIENT_ID HERE as shown:



Similarly follow these same steps to add other 2 iOS apps as well.

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Generating apps for release

1) Android

Here we will show how to create a release .apk file for **Grocery Store** app and same has to be done for other two apps as well.

Open Android Studio -> Click Open existing Android Studio Project -> Select **grocery_store** folder -> Click Open as shown:

Click on **Terminal** given in bottom bar as shown:

Now follow the instructions given on this <https://flutter.dev/docs/deployment/android#create-a-keystore> or shown in the below image to create a keystore.

Run the command as per your OS and follow the instructions as given.

Create a keystore

If you have an existing keystore, skip to the next step. If not, create one by running the following at the command line:

On Mac/Linux, use the following command:

```
keytool -genkey -v -keystore ~/key.jks -keyalg RSA -keysize 2048 -validity 10000 -alias key
```

On Windows, use the following command:

```
keytool -genkey -v -keystore c:\Users\USER_NAME\key.jks -storetype JKS -keyalg RSA -keysize 2048 -validity 10000 -alias key
```

This command stores the **key.jks** file in your home directory. If you want to store it elsewhere, change the argument you pass to the **-keystore** parameter. **However, keep the keystore file private; don't check it into public source control!**

Note:

- The **keytool** command might not be in your path—it's part of Java, which is installed as part of Android Studio. For the concrete path, run **flutter doctor -v** and locate the path printed after 'Java binary at'. Then use that fully qualified path replacing **java** (at the end) with **keytool**. If your path includes space-separated names, such as **Program Files**, use platform-appropriate notation for the names. For example, on Mac/Linux use **Program Files**, and on Windows use "**Program Files**".
- The **-storetype JKS** tag is only required for Java 9 or newer. As of the Java 9 release, the keystore type defaults to PKS12.

- 1) Type the password
- 2) Retype the password
- 3) Fill the details as asked

NOTE: Please keep these details safe and do not share or forget the password used here.

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Now once you have filled all the details type YES and click Enter

```

    android {
        ...
        buildTypes {
            ...
            release {
                ...
                signingConfig {
                    ...
                    keyAlias "keyalias"
                    keyStoreFile "C:/Users/ishanbhagwate/Desktop/KeyStore/key.jks"
                    keyStorePassword "123456"
                    keyPassword "123456"
                }
            }
        }
    }
}

keytool -genkeypair -v

```

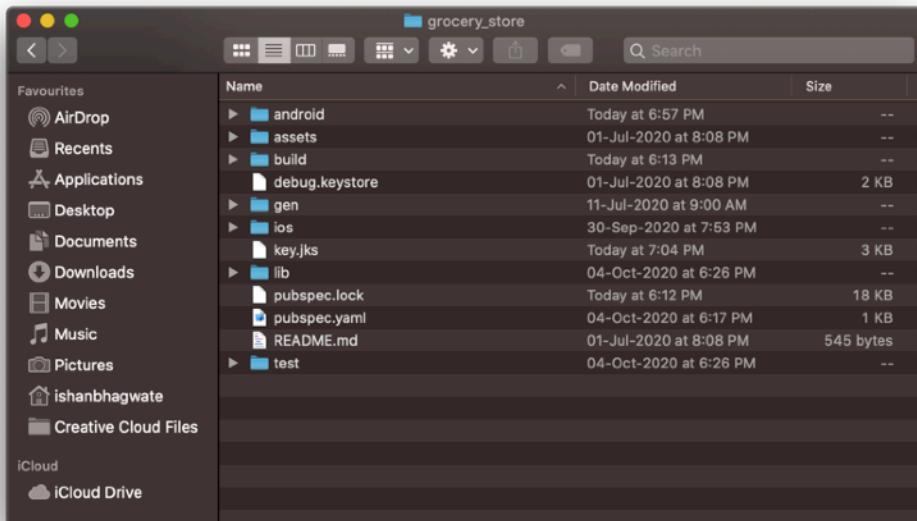
The terminal output shows:

```

Generating Java Key Store (JKS) key pair and self-signed certificate (SHA256withRSA) with a validity of 10,000 days
For: O=Grocery_Stores, CN=Grocery_Stores, L=Grocery here, ST=State here, C=IN
[Storing JKS in /Users/ishanbhagwate/Desktop/KeyStore/key.jks]
ishanbhagwate@ishanbhagwate-MacBook-Pro ~ %

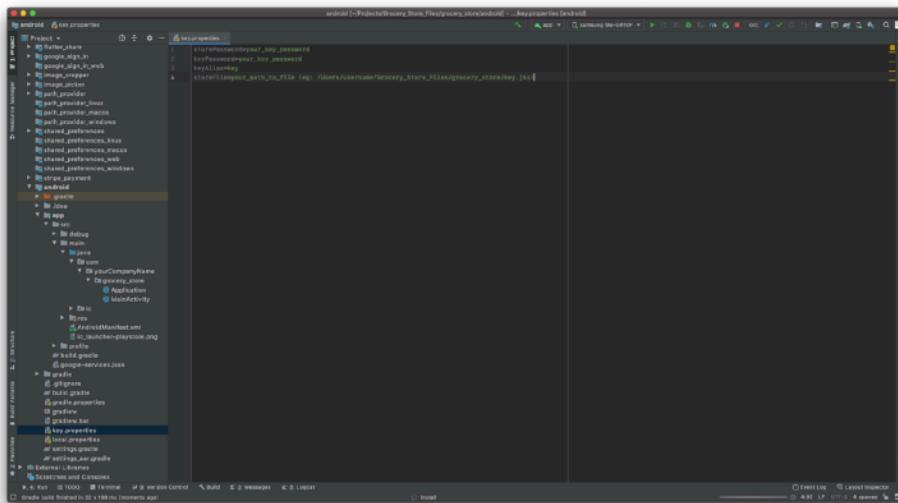
```

Now cut the file (i.e: key.jks) and paste in your particular project folder as shown:



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In Android Studio open key.properties file and edit the values as per your inputted values as shown

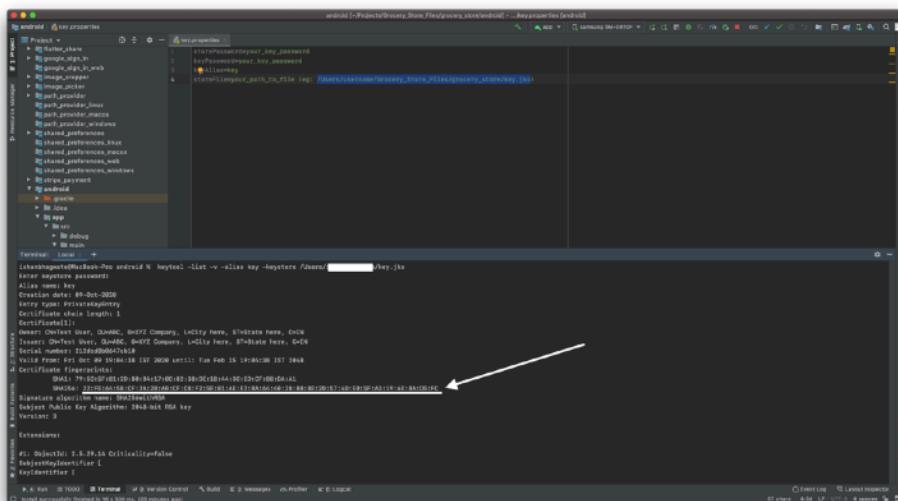


Open Terminal and type the following command to get the SHA-256 fingerprint:

→ keytool -list -v -alias key -keystore <path-to-production-keystore>

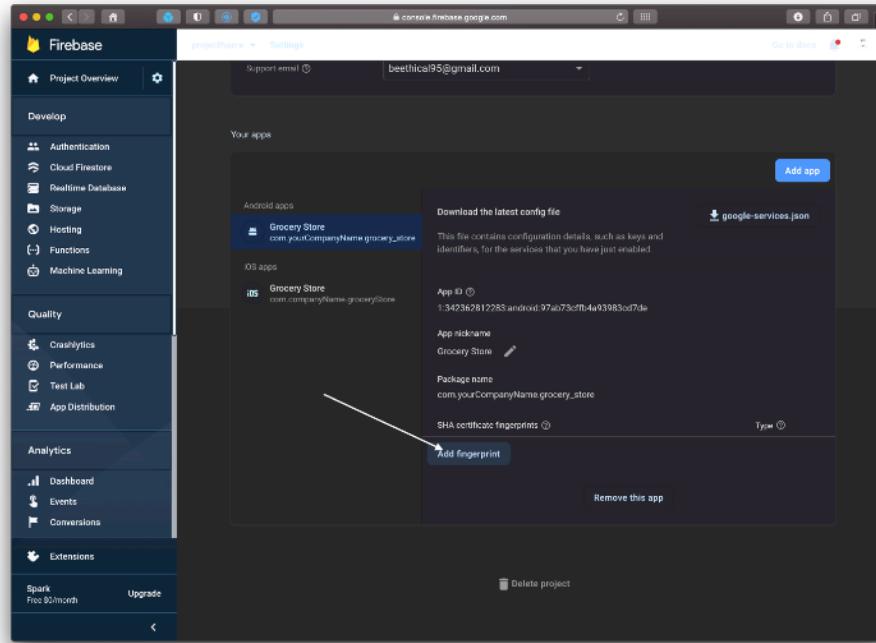
For eg: keytool -list -v -alias key -keystore /Users/username/Grocery_Store_Files/grocery_store/key.jks

Now input the keystore password and copy the SHA-256 fingerprint as shown:

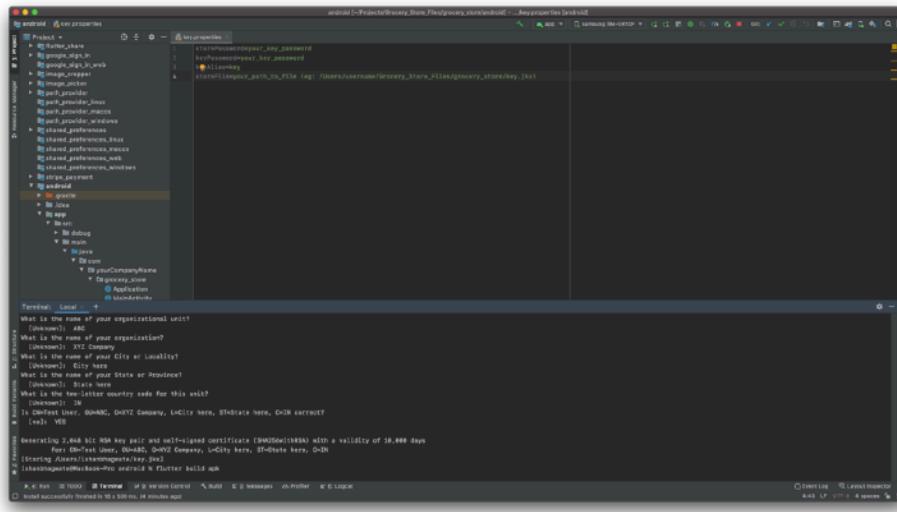


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Open Firebase console -> Project Settings -> Select the particular app -> Click Add fingerprint -> Paste the copied SHA-256 fingerprint and click Add



Open Terminal and type the following command to generate the release .apk file as shown:
→ flutter build apk —release —no-shrink



Now repeat this process for generating .apk files for other two apps also.

B2X_CODES

2) iOS

Here we will show how to create a release .ipa file for **Grocery Store** app and same has to be done for other two apps as well.

NOTE: To generate .ipa file you will need to have an Apple developer account.

Follow the below given steps:

Step 1: Change scheme destination to `Generic IOS device`.

Step 2: Click `Product` > `Archive` > once this is complete open up the Organiser and click the latest version.

Step 3: Click on `Export...` option from right side of organiser window.

Step 4: Select a method for export > Choose correct signing > Save to Destination.

Xcode 10.0

Step 3: From Right Side Panel Click on Distribute App.

Step 4: Select Method of distribution and click next.

Step 5: It Opens up distribution option window. Select **All compatible device variants** and click next.

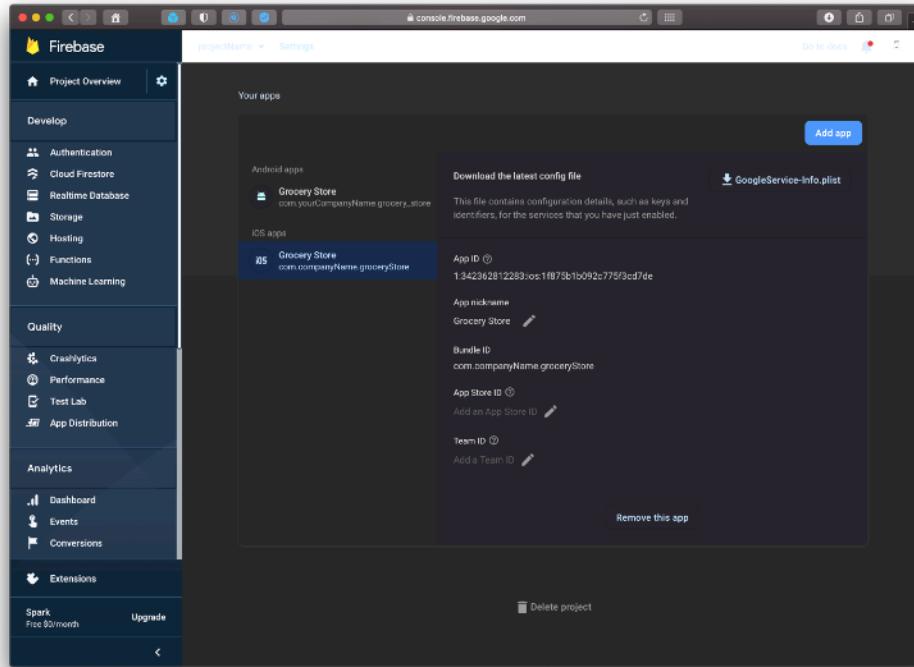
Step 6: Choose signing certificate.

Step 7: It will open up Preparing archive for distribution window. it takes few min.

Step 8: It will open up Archives window. Click on export and save it.

Open Firebase console -> Project Settings -> Select the particular app

Type in your App Store ID and Team ID

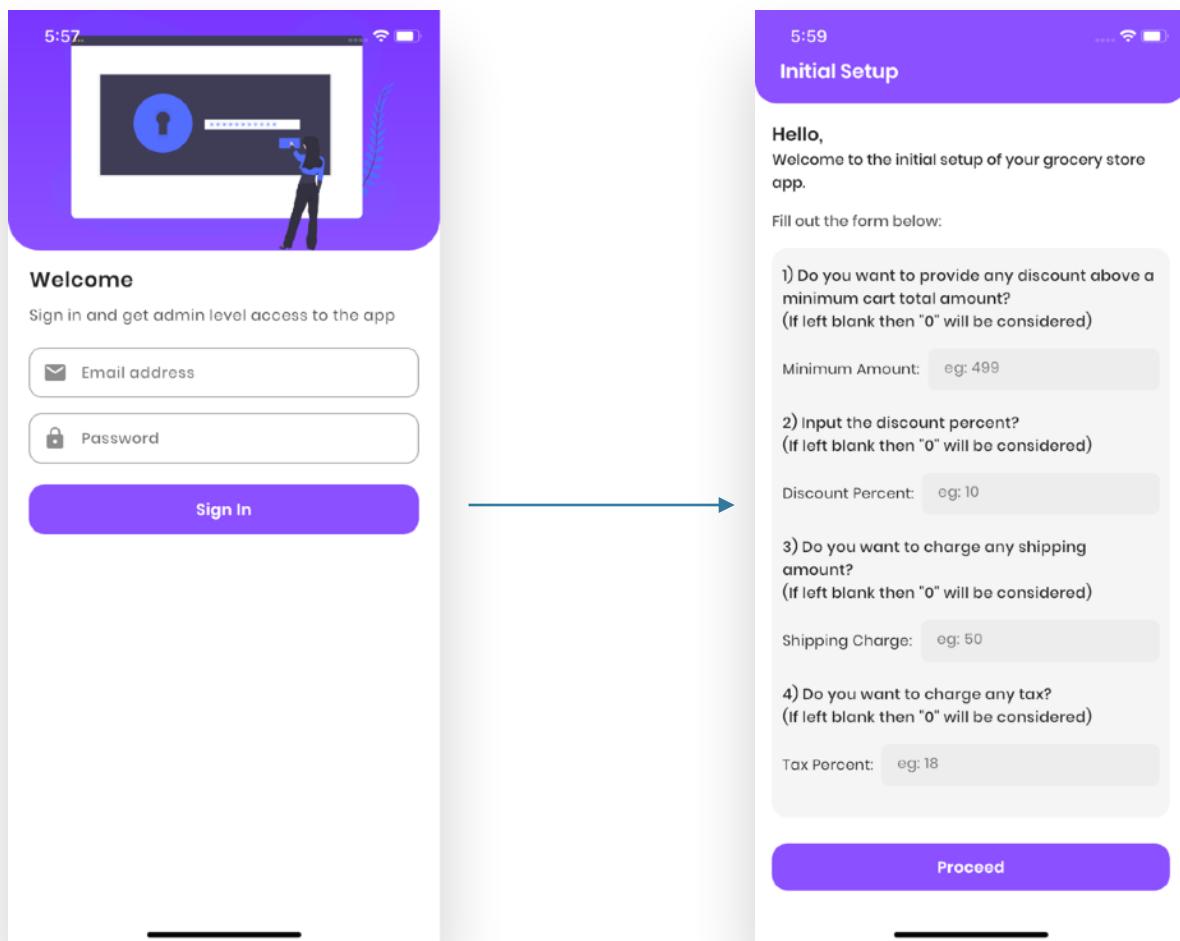


Now repeat this process for generating .ipa files for other two apps also.

App Setup

This will help you setup and configure the app with step by step instructions.

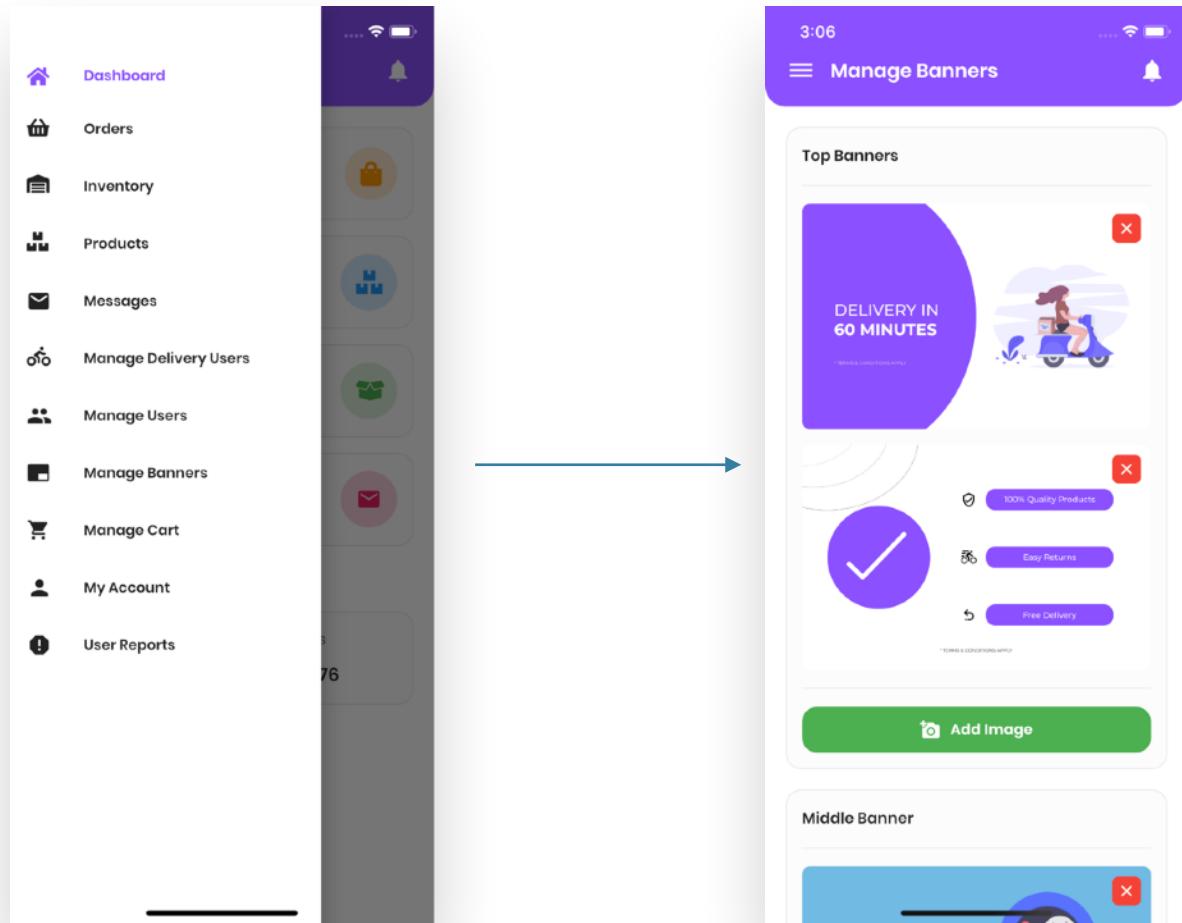
Open the **Grocery Store Admin** app and sign in with email and password you created earlier, after that you will be taken to initial setup screen. Fill out all the details and click **Proceed** as shown:



Now open **Inventory** and add **Categories**. If you don't add categories and go to **Banners** section it will not work as **Banners** need categories to be added first.

Once you have added categories open **Manage Banners** and set up all the required banners as shown:

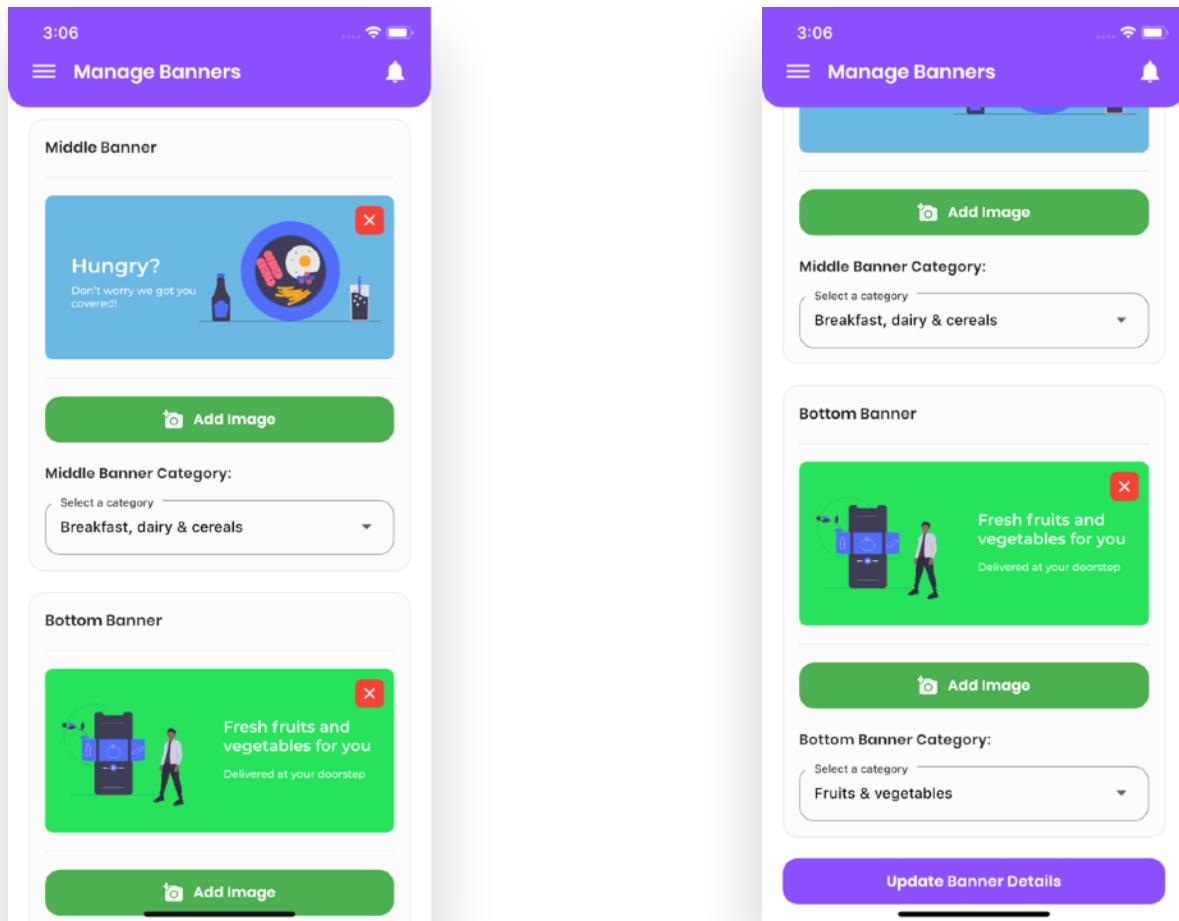
Please don't run the Grocery Store app till setting up everything mentioned below.



Add all the banners as shown in the screenshots, all the banner images can be found in **assets** folder provided to you.

Remember to add at-least one Top Banner image. Also adding **bottom banner** and **middle banner** is mandatory.

Bottom banner and **middle banner** requires category so make sure to add them as well and then click on **Update Banner Details**.



Use the images provided to you and setup the banners and once this is setup you can now run **Grocery Store app**.

If you need any assistance in setting up the platform kindly drop us a mail at b2xcodes@gmail.com.