

Technology Used

- **Flutter** with Dart Language for Mobile App
- **Angular 16** for Admin Panel
- **NodeJS** with Express Framework for API
- **MySQL** for Database

Please follow the below steps to set up the project on your server.

(We have provided the steps to set up using Visual Studio Code Editor. You can use other editors also. Steps may vary based on your editor.)

1. Setup Prerequisite (If not available)

- a. Install Visual Studio Code (VSCode) from [this link](#)
- b. Install NodeJS from [this link](#) (Minimum version 16.14.0)
- c. Install and set up Flutter from [this link](#)
- d. Install MySQL from [this link](#)

(You can choose the MySQL edition based on your needs)

- e. Install MySQL Workbench from [this link](#) (This is optional)

2. Setup the Database (Technology MySQL)

Database configuration could be set up through the admin panel.

Note :- Please ensure to restart the API server after completing the database configuration step in the admin panel before proceeding with the login process.

Step 1: Connect with MYSQL Server



Welcome to CreditAPP Configuration

1

MYSQL Configurati...

2

Setup Databa...

3

Setup Comple...

Host Name*

Port*

User Name*

Password*

show

Test Connection

Save & Next

Step 2: Setup Database



Welcome to CreditAPP Configuration

MYSQL Configuration

2

 Setup Database

3

 Setup Complete

Previous Version Installed? *

Yes No

Database Name*

creditapp

☐

 Do you want to create database user?*

☐

 Install Master Data*


☐

 Install Sample Data*

Database Configuration

Back

Step 3: Complete Setup



Welcome to CreditAPP Configuration

☐ MYSQL Configuration


☐ Setup Database

☒ 3 Setup Complete

1. Setup Database...

2. Install Master Data...

3. Install Sample Data...



Congratulations!

Your configuration process has been successfully completed. Below are your credentials. We appreciate your cooperation in this matter and look forward to your continued success with our services.

Please restart API(Nodejs APP) - Check documentation for restart.

UserName : admin@gmail.com

Password : admin

Go To Login

3. Setup the API, Admin Panel, Website (Technology NodeJS, Angular)

Update credit-app-9be53-firebase-adminsdk-dbc3-1141581325.json file

```
{
  "type": "<type>",
  "project_id": "<project_id>",
  "private_key_id": "<private_key_id>",
  "private_key": "<private_key>",
  "client_email": "<client_email>",
  "client_id": "<client_id>",
  "auth_uri": "<auth_uri>",
  "token_uri": "<token_uri>",
  "auth_provider_x509_cert_url": "<auth_provider_x509_cert_url>",
  "client_x509_cert_url": "<client_x509_cert_url>",
  "universe_domain": "<universe_domain>"
}
```

- Open the folder and upload it on your hosting server.
- Execute npm i command in server Terminal.
- For Accessing API use url

https://<YOUR_DOMAIN_NAME>/api

- For Accessing Admin use url

https://<YOUR_DOMAIN_NAME>/admin

- For Accessing API use url

https://<YOUR_DOMAIN_NAME>

a. Setup API Server (advanced user setup)

```
const SERVER_HOSTNAME = process.env.SERVER_HOSTNAME || 'localhost';  
const SERVER_PORT = process.env.PORT || 1402;
```

b. Setup AWS S3 Bucket for Storing documents

- i. To Store data in an S3 bucket, you need to generate AWS Security Key Access Credentials first.
 1. Login to your **AWS Management Console**
 2. Click on your username and select **My Security credential**
 3. Then select **Access Keys**
 4. Then Click on **Create New Access Key**
 5. After that, you can either copy the Access Key ID and Secret Access Key from this window or you can download it as a .csv file
- ii. Please replace “AWS_ID_S3_BUCKET” With your AWS Account ID in admin panel(AWS CREDENTIAL- AWS_ID)
- iii. Please replace “AWS_SECRET_S3_BUCKET” With your AWS Account SECRET in admin panel(AWS CREDENTIAL- AWS_SECRET)

4. Setup Customer App (Technology Flutter)

a. Initial steps to set up and run mobile app

- i. Open the **App** folder in the VSCode
- ii. Run the following commands in the VSCode Terminal

```
flutter clean  
flutter pub get
```

- iii. Additional steps to set up for iOS (You can skip these steps if you don't want to set up for iOS)
 1. In the VSCode terminal, go to the ios directory
(using the command **cd ios**)
 2. Run the following command to install pods

pod install

- iv. Connect your Android or iOS device with your machine
(To run on an Apple device, you must have an Apple computer)
- v. Run the following command to run on an Android or iOS device

flutter run

- vi. To upgrade the Flutter version run the following command in the VSCode Terminal
(Only if your Flutter version is lower than mentioned in this document)

flutter upgrade**b. Change API base URL**

After the setup of your WebApi and Admin panel, you have to change your WebApi base URL for that, go to the file located at **lib\utils\global.dart**

```
String appMode = "LIVE";  
Map<String, dynamic> appParameters = {  
  "LIVE": {  
    "apiUrl": "https://creditapi.nsserver.in/",  
  },  
  "DEV": {  
    "apiUrl": "http://192.168.29.118:1402/",  
  },  
};
```

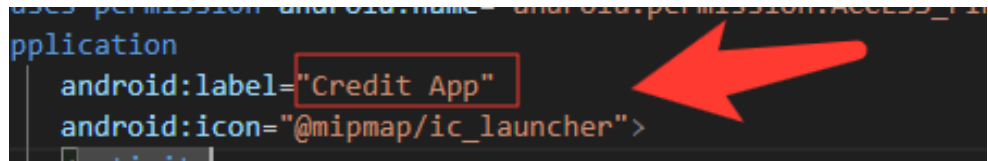
c. Change App Name

- i. Change the app name in the Android App
 - 1. Change the app name in the file located at **lib\utils\global.dart**

```
String appName = 'Credit App';
```



- 2. Change the app name in the file located at **android/app/src/main/AndroidManifest.xml**



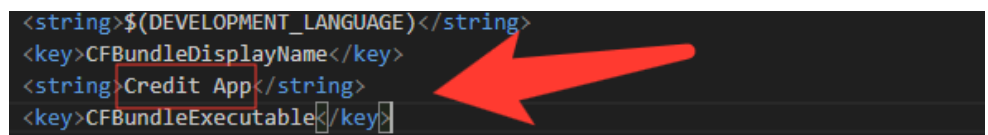
```
uses-permission android:name="android.permission.ACCESS_INTERNET"
<application
    android:label="Credit App"
    android:icon="@mipmap/ic_launcher">
```

A red box highlights the `android:label="Credit App"` attribute, and a red arrow points to it from the right.

ii. Change the app name in the iOS App

1. In VSCode

- a. Go to **ios/Runner/info.plist**
- b. Change string of key **CFBundleDisplayName**

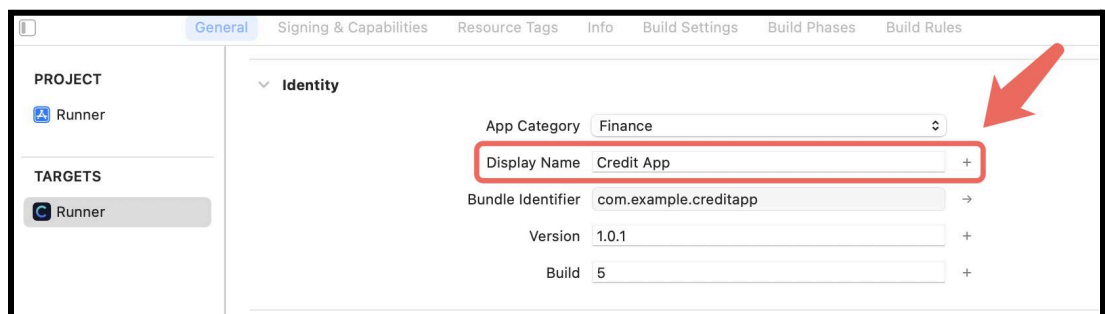


```
<string>$(DEVELOPMENT_LANGUAGE)</string>
<key>CFBundleDisplayName</key>
<string>Credit App</string>
<key>CFBundleExecutable</key>
```

A red box highlights the `<string>Credit App</string>` value, and a red arrow points to it from the right.

2. In XCode

- a. Right-click on the **iOS** folder and Choose Open in Xcode Option
- b. Click on the folder icon left side of the XCode window
- c. Select Runner.
- d. Select Target runner
- e. From the General Tab Go to identity
- f. Change Display Name



d. Change Package Name/Bundle ID

An app's package name is a unique identifier that is automatically created when you create an app. The term used for iOS apps is "**bundle ID**" and for Android apps, it is "**package name**".

i. Set Package Name for Android App

1. Change the package name in the file located at **android/app/src/main/AndroidManifest.xml**

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.creditapp">
    <uses-permission android:name="android.permission.CAMERA" />
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
    <application
```

2. Change the package name in the file located at **android/app/src/debug/AndroidManifest.xml**

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.creditapp">
    <!-- Flutter needs it to communicate with the running application -->
```

3. Change Package Name in file which is located at **android/app/src/Profile/AndroidManifest.xml**

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.creditapp">
    <!-- Flutter needs it to communicate with the running application -->
```

4. Change the Package Name in a file that is located at **android/app/build.gradle**

```
defaultConfig {
    applicationId "com.example.creditapp"
    minSdkVersion 21
    targetSdkVersion 33
```

5. Change the folder structure for the below path as per your package name.

android\app\src\main\kotlin\com\example\creditapp

6. Change Package Name in the file which is located at **android\app\src\main\kotlin\com\example\creditapp\MainActivity.kt**

```
package com.example.creditapp  
  
import io.flutter.embedding.android.FlutterActivity
```

ii. Set Bundle ID for iOS App

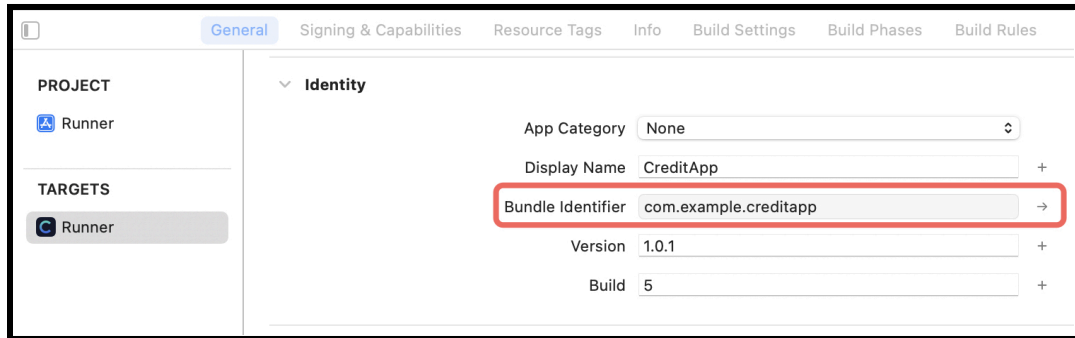
1. In VSCode

- a. Go to **ios/Runner/info.plist**
- b. Change the string of key **CFBundleIdentifier**

```
<key>CFBundleExecutable</key>  
<string>$(EXECUTABLE_NAME)</string>  
<key>CFBundleIdentifier</key>  
<string>$(PRODUCT_BUNDLE_IDENTIFIER)</string>  
<key>CFBundleInfoDictionaryVersion</key>  
<string>6.0</string>
```

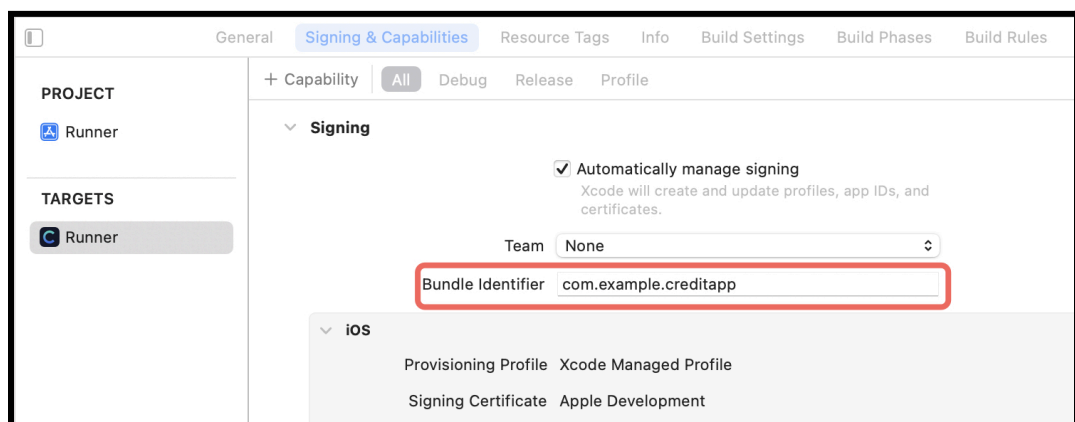
2. In XCode

- a. Right-click on the **iOS** folder and Choose Open in Xcode Option
- b. Click on the folder icon left side of the XCode window
- c. Select Runner.
- d. Select Target runner
- e. In general, Tab Go to identity
- f. Change Bundle Identifier



g. In Signing & Capabilities Go to Signing

h. Change Bundle Identifier



e. Create and set Keystore file for Android

i. Create keystore.jks file if not exist using the below command in the terminal


```
keytool -genkey -v -keystore "path\keystore.jks" -storetype JKS  
-keyalg RSA -keysize 2048 -validity 10000 -alias keystore
```

ii. Fill in all the details asked while executing the above command

iii. Recommended. After creating your keystore.jks file, please put it in the **android/app** folder

iv. Create a key.properties file in the **Android** folder and add the details in the file as per the below screenshot.

```
storePassword=android  
keyPassword=android  
keyAlias=keystore  
storeFile=keystore.jks
```



NOTE:

- If you have changed any default value for any of these keys (storePassword, keyPassword, keyAlias, storeFile) while creating the keystore.jks file, then please also change them to the key.properties file.
- If you place your keystore.jks file somewhere else in the project than mentioned in step 5.c.iii then please change storeFile key value accordingly.
- For more details please refer to [this link](#)

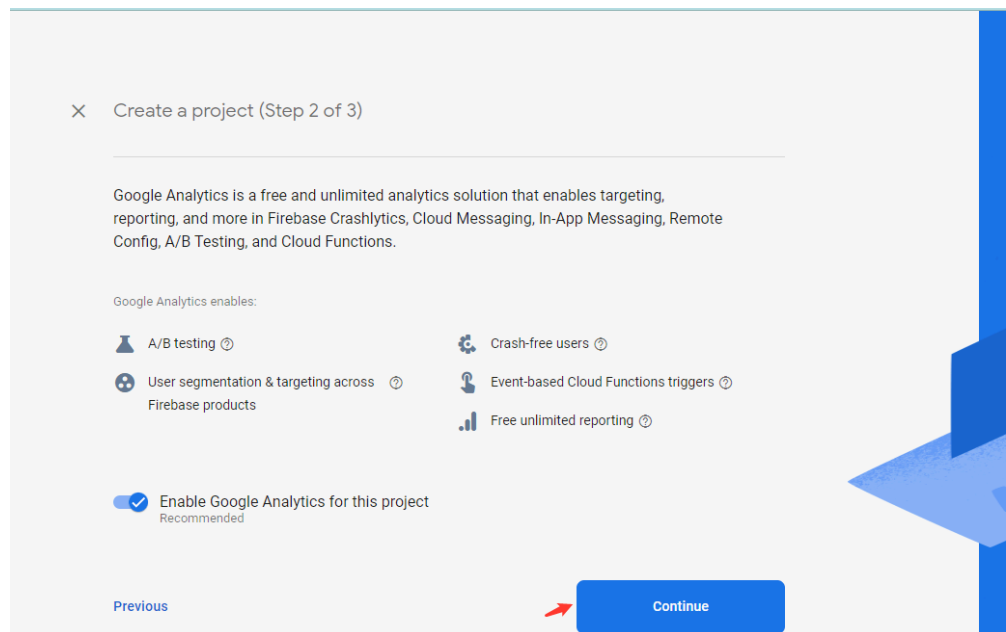
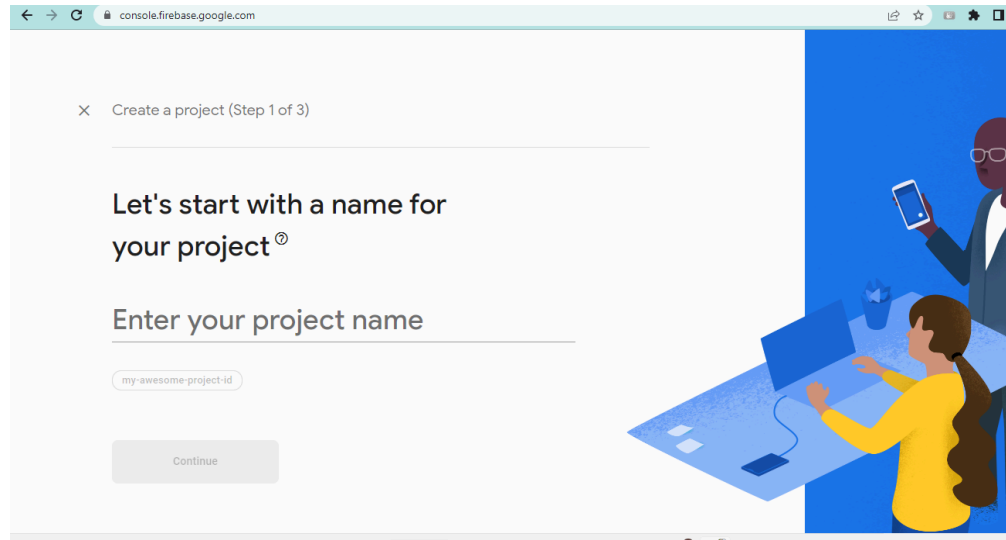
f. Create Firebase Account & Project

In this project, we are using the following Firebase services.

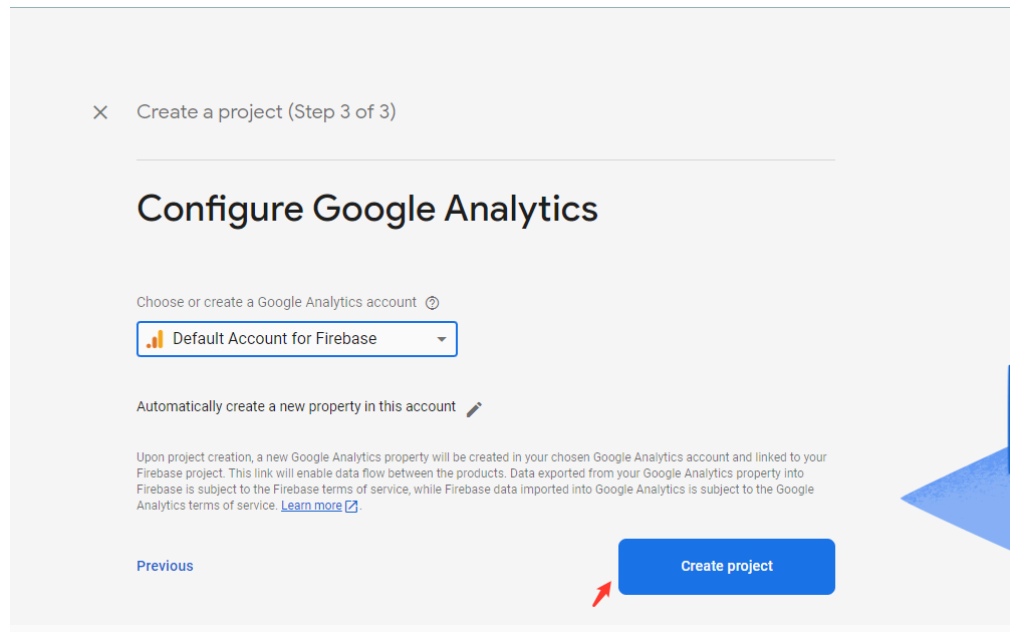
- i. Push Notification
- ii. Phone Authentication
- iii. Firebase Analytics

For this, you need a Firebase account and a project set up in the Firebase. Please follow the below steps for this,

- i. Go to the [Firebase console](#)
- ii. Sign up if you don't have a Google Account or want to create a new account for your project. Otherwise, sign in with your Google Account.
- iii. Click on **Add Project**
- iv. Enter your project name



- v. **Select Default Account for Firebase**
(or you can create a new account)



vi. Create project

g. Set up Android App in Firebase Project

- i. Go to the Firebase console
- ii. Select the project you created in step 5.d.vi
- iii. Go to **Project Setting**
- iv. In the **General** Tab click on the **Add App** button
- v. Select **Android**
- vi. Fill out the form and click on the **Register App Button**

(Please check the below screenshot for reference)

[illegible]

- vii. You need SHA keys (SHA-1 and SHA-256) to add once you create the Android App in the above steps.
 1. To Generate debug SHA use the below command

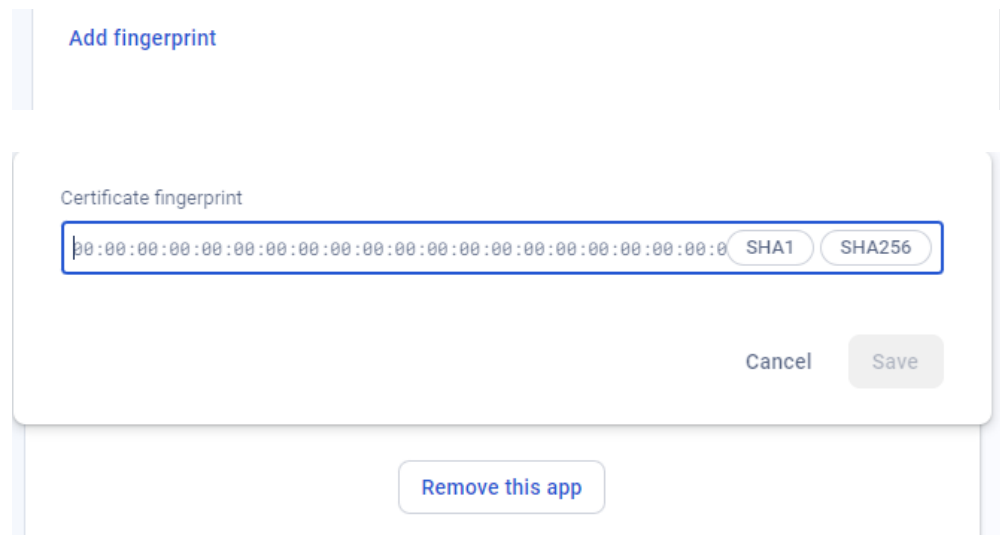
```
keytool -list -v -keystore "Your directory path\debug.jks" -alias  
androiddebugkey -storepass android -keypass android
```

2. To Generate release SHA use the below command

```
keytool -list -v -keystore "your directory path\keystore.jks" -alias  
androidreleasekey -storepass your store password -keypass your  
key password
```

After generating the debug and release SHA, you have to add them in the Firebase Console where you have created the Android app.

Please check the screenshot below for the reference.



- viii. Download the `google-services.json` file from Firebase project settings and paste it at the **android/app** location.
- ix. Add Firebase SDK Add the plugin as a build script dependency to your project-level `build.gradle` file:


```
buildscript {
    repositories {
        // Make sure that you have the following two repositories
        google() // Google's Maven repository
        mavenCentral() // Maven Central repository
    }
    dependencies {
        ...
        // Add the dependency for the Google services Gradle plugin
        classpath 'com.google.gms:google-services:4.3.15'
    }
}

allprojects {
    ...
    repositories {
        // Make sure that you have the following two repositories
        google() // Google's Maven repository
        mavenCentral() // Maven Central repository
    }
}
```

- x. Then, in your module (app-level) `build.gradle` file, add both the `google-services` plugin and any Firebase SDKs that you want to use in your app:

```
plugins {
    id 'com.android.application'
    // Add the Google services Gradle plugin
    id 'com.google.gms.google-services'
    ...
}

dependencies {
    // Import the Firebase BoM
    implementation platform('com.google.firebase:firebase-bom:31.5.0')

    // TODO: Add the dependencies for Firebase products you want to use
    // When using the BoM, don't specify versions in Firebase dependencies
    implementation 'com.google.firebase:firebase-analytics-ktx'

    // Add the dependencies for any other desired Firebase products
    // https://firebase.google.com/docs/android/setup#available-libraries
}
```

h. Setup Firebase iOS App

- i. Go to the Firebase console
- ii. Select the project you created in step 5.d.vi
- iii. Go to **Project Setting**
- iv. In the **General** Tab click on the Add App button
- v. Select **iOS**
- vi. Fill out the form and click on the **Register App** Button

(Please check the below screenshot for reference)

× **Add Firebase to your Apple app**

1 Register app

Apple bundle ID ⓘ

App nickname (optional) ⓘ

App Store ID (optional) ⓘ

Register app

2 Download config file

3 Add Firebase SDK

4 Add initialisation code

5 Next steps

Download the GoogleService-info.plist file from Firebase project settings and paste it at the **ios/Runner** location in the app

XCode Project Setting

This step covers reviewing the most important settings in the XCode workspace. For detailed procedures and descriptions, see [Prepare for App Distribution](#)

3. Navigate to your target's settings in XCode:

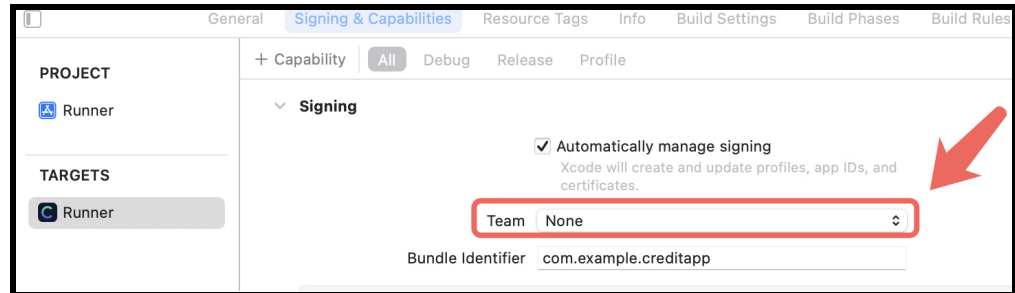
- a. Open the default Xcode workspace in your project by running the below command in a terminal window from your Flutter project directory.

```
open ios/Runner.xcworkspace
```

- b. To view your app's settings, select the Runner target in the Xcode navigator.

4. Verify the most important settings

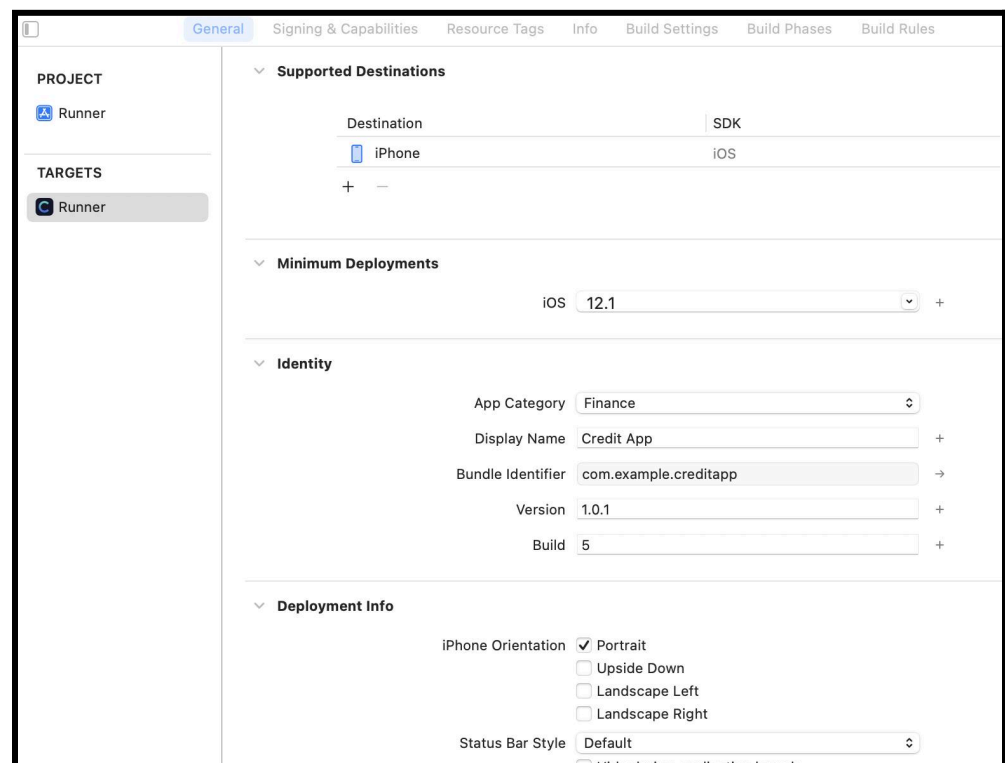
- a. In the Identity section of the General tab
 - i. **Display Name** (The display name of your app.)
 - ii. **Bundle Identifier** (The App ID you registered on App Store Connect.)
- b. In the Signing & Capabilities tab
 - i. **Automatically manage signing** (Xcode should automatically manage app signing and provisioning. This is set true by default, which should be sufficient for most apps. For more complex scenarios, see the [Code Signing Guide](#))
 - ii. **Team** (Select the team associated with your registered Apple Developer account. If required, select Add Account..., then update this setting.)



c. In the deployment section of the build settings tab:

i. iOS Deployment Target

1. The minimum iOS version that the app supports is 11.0.
2. The General tab of your project settings should resemble the following:

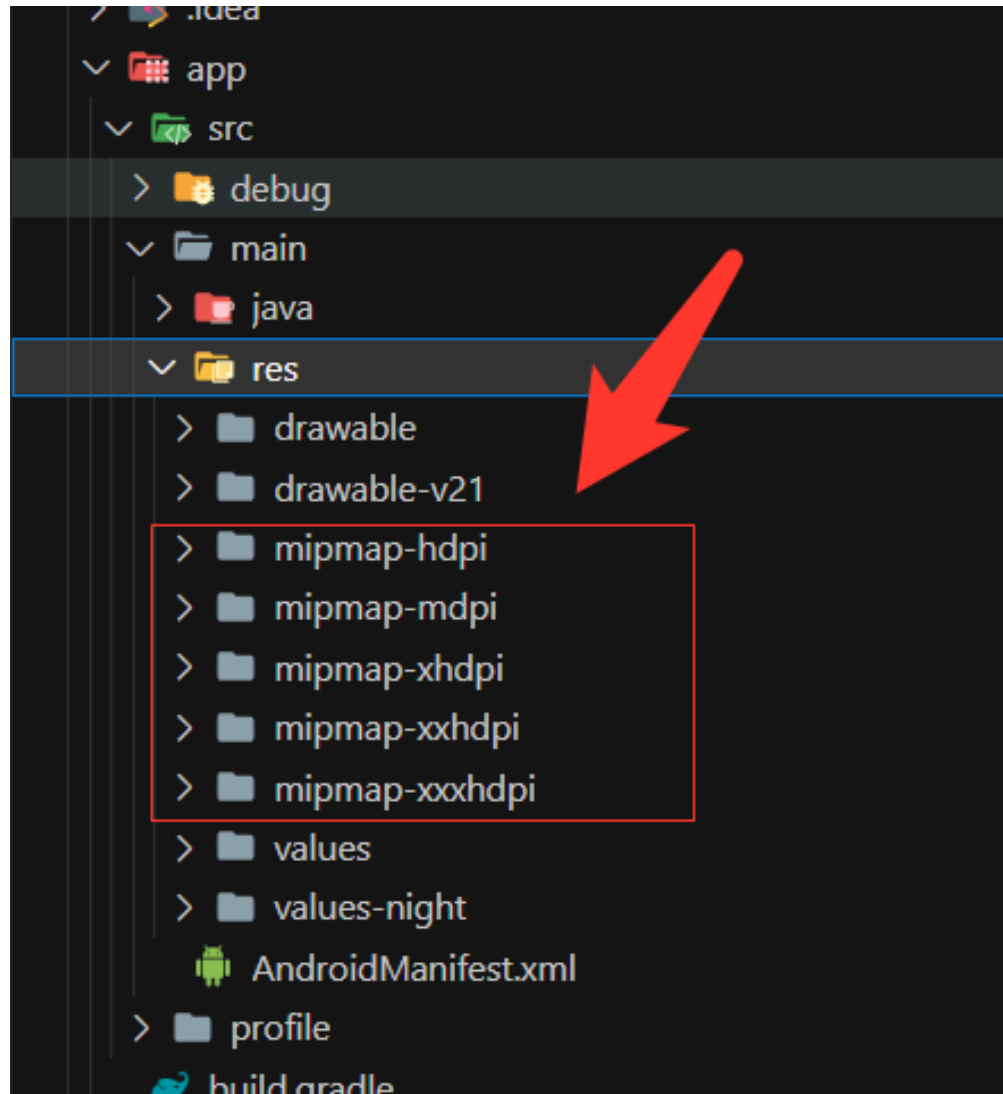


3. For a detailed overview of app signing, see [Create, export, and Delete signing certificates](#).

i. Change App Icon

i. For Android

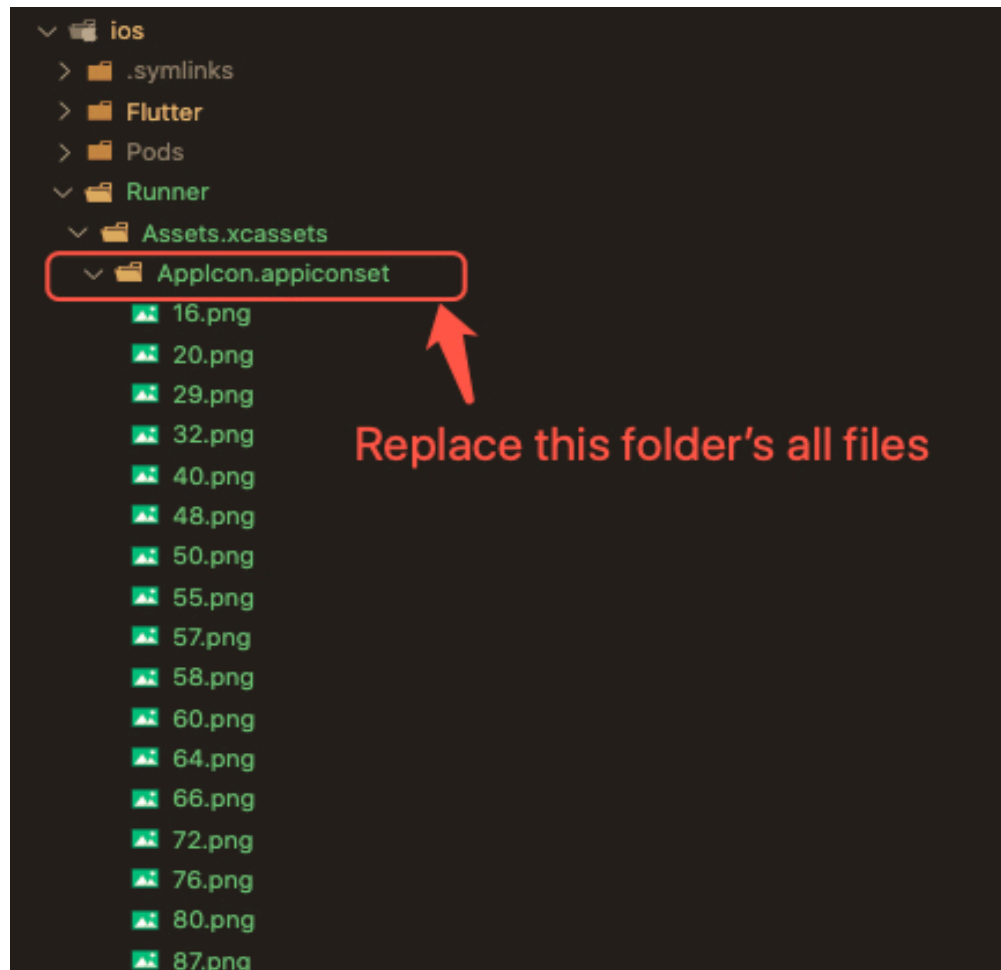
Replace the icons in the **android\app\src\main\res** folder as shown in the below image.



ii. For iOS

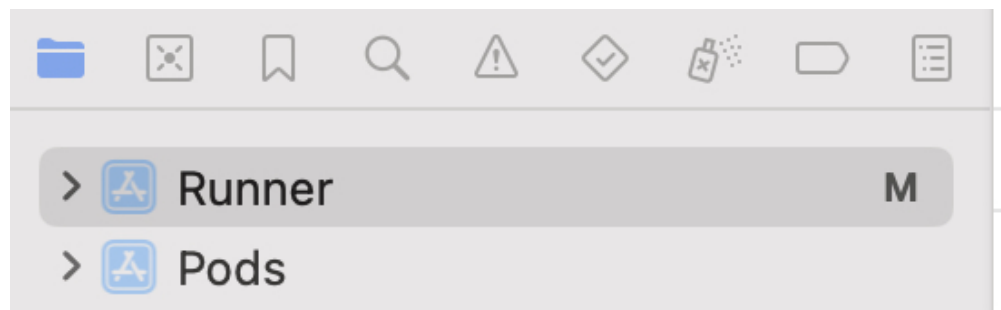
1. Replace the icons in the below folder as shown in the below image

ios\Runner\Assets.xcassets\AppIcon.appiconset



2. Change icons using XCode

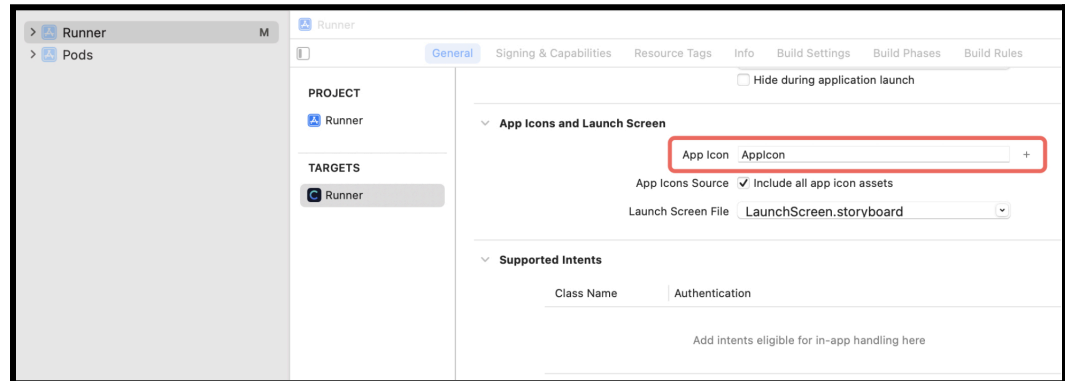
- a. Right-click on the iOS folder Choose Open in Xcode Option
- b. Click on the folder icon on the left side of the XCode window



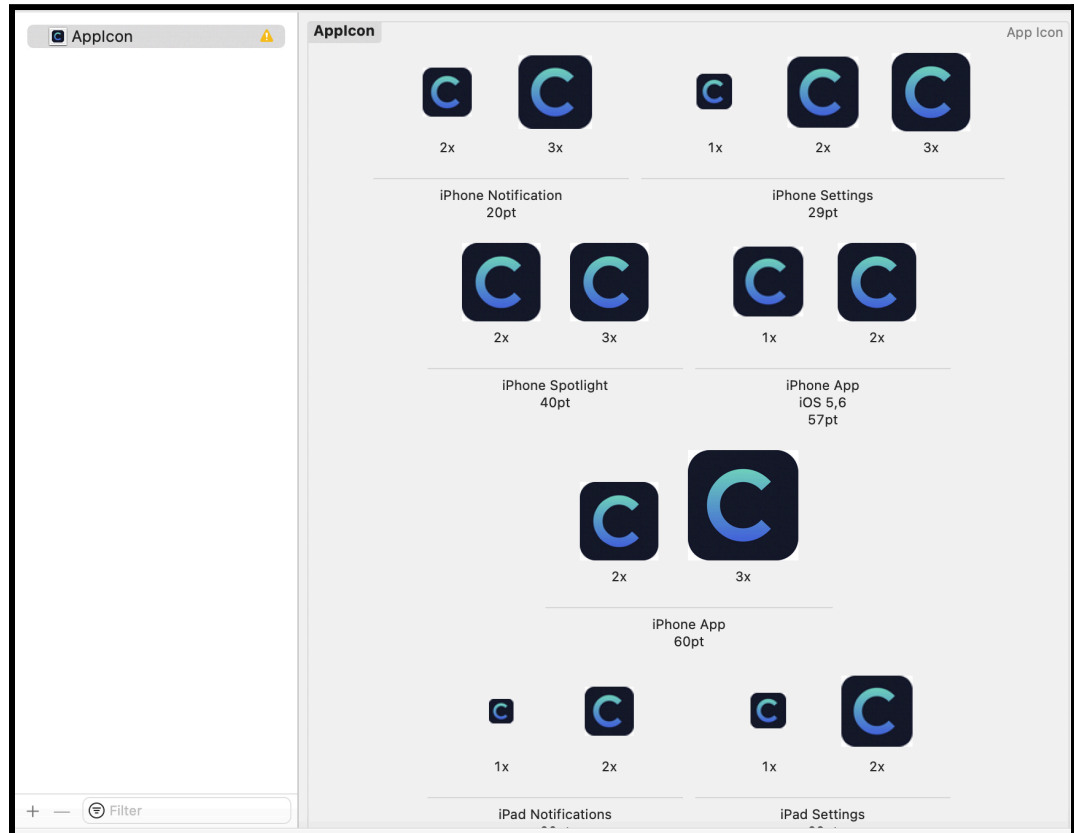
- c. Select Runner.
- d. Select Target runner

e. Go to App Icons And Launch Images

f. Click the right arrow button of the app icon source



g. Replace all the icons according to their size



NOTE:

- If you want to generate the App icon bundle from any image you have, you can generate it from publicly available websites like

<https://www.appicon.co/>

j. Build Release for Android

- i. Open Project in VS Code
- ii. In Terminal Execute the below commands

```
flutter clean  
flutter pub get  
flutter build apk --release
```

- iii. After making the release, to generate the release bundle Execute the below command

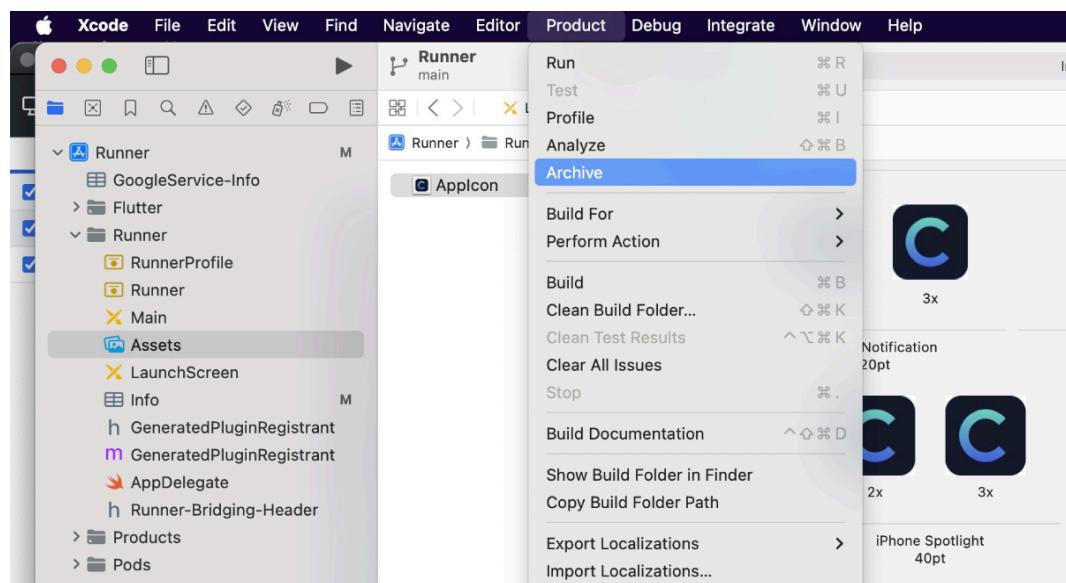
```
flutter build appbundle --release
```

- iv. Get the APK from the below path

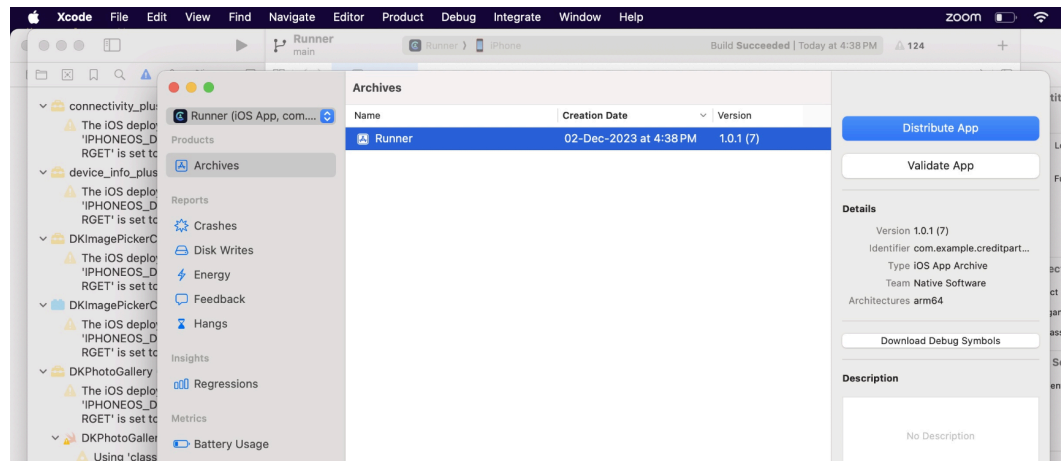
build\app\outputs\flutter-apk\app-release.apk

k. Build Release for iOS

- i. Open Project in XCode
- ii. Select **Archive** from the **Product Menu**



- iii. After successfully archiving select the **Organizer** option from the **Windows** menu
- iv. After clicking on it opens one popup for Archive, Click on the **Distribute App** Button



- v. After successfully done, you can upload this app to your Apple developer account in the TestFlight
- vi. To publish your app from TestFlight please follow [this link](#)

I. Other Options for the Advanced User

i. Paths to the images used in the app

Images	Path	Screen Path
Splash screen	assets/test_logo.png	lib/views/splash/splash_screen.dart
Introduction screen	assets/intro_image1.png	lib/views/introduction/introduction_screen.dart
	assets/intro_image2.png	lib/views/introduction/introduction_screen.dart
	assets/intro_image3.png	lib/views/introduction/introduction_screen.dart
Dashboard screen	assets/images/appbarimg.png	lib/views/dashboard/dashboard_screen.dart
	assets/images/occupation.png	lib/views/dashboard/dashboard_screen.dart

- ii. Fonts used in the app. If you want to change, you can make the changes in the **pubspec.yaml** file and the **Assets** folder.

Roboto	assets/fonts/Roboto-Black.ttf
	assets/fonts/Roboto-Bold.ttf
	assets/fonts/Roboto-Regular.ttf

- iii. Colors used in the app. If you want to change the colors you can make the changes in the file **lib/Theme/nativeTheme.dart**

#	Color code
Primary color	#8080ff
Primary swatch color	#8080ff
Text button - background color	#8080ff
Card - Color	white
Card - shadow color	white
AppBar theme - color	white
Checkbox - check color	white
Checkbox - fill color	#8080ff
scaffoldBackgroundColor	white
Dialog -background color	white

- iv. Packages used in the app are listed below. You can find them in **pubspec.yaml** file.

Package Name - Version	Description
pininput - ^2.0.5	For the OTP text field
font_awesome_flutter - ^10.4.0	To access the icon of font-awesome
dotted_border - 2.0.0+3	A flutter package to easily add dotted borders around widgets
cupertino_icons - ^1.0.5	For UI design
scratcher - ^2.3.0	For Scratch card
convex_bottom_bar - ^3.2.0	For BottomAppBar
share_plus - ^7.0.0	A Flutter plugin to share content from your Flutter app via the platform's share dialog.
dots_indicator - 2.1.2	To display dots indicator to show a position

flutter_document_picker - 5.2.1	The picked document is copied
file_picker - ^5.3.0	Pick single or multiple files
sms_autofill - ^2.3.0	The SMS autofill is provided by default
mobile_number - 2.1.1	For fetching the device's mobile number or list SIM card data
otp_autofill - 2.1.0	For OTP autofill using User Consent API and Retriever API
open_file - ^3.3.1	to open files
image_cropper - ^4.0.1	Flexible image cropping
flutter_image_compress - ^2.0.3	Compresses image as a native plugin.
get - 4.6.5	Stat management
get_storage - ^2.1.1	A fast, extra light key value in memory, which backs up data to disk at each operation.
flutter_svg - ^2.0.5	For drawing svg files.
connectivity_plus - ^4.0.0	To check the connectivity of a device
http - ^0.13.6	For consuming HTTP resources
shared_preferences - ^2.1.1	To store something locally
loading_animation_widget - ^1.2.0+4	Loading animation or loading spinner or loader.
shimmer - 2.0.0	Easy way to add shimmer effect
carousel_slider - ^4.2.1	A carousel slider widget
number_to_words - 1.0.0	To convert numbers to words by
device_info_plus - ^9.0.0	To get device info
permission_handler - ^10.2.0	This plugin provides a cross-platform API to request and check permission
date_format - ^2.0.7	A simple API to format dates
page_view_indicator - 2.0.0	Customizable indicators for your PageViews.
image_picker - ^0.8.7+5	For picking an image
cached_network_image - ^3.2.3	To show images from the internet
flutter_custom_clippers - ^2.1.0	custom clippers to help you achieve various custom shapes.

intl - ^0.17.0	To Provide internationalization and localization facilities, including message translation, plurals and genders, date/number formatting and parsing, and bidirectional text.
firebase_auth - ^4.6.0	To use the Firebase authentication API.
firebase_analytics - ^10.4.0	A Flutter plugin to use the Google Analytics for Firebase API.
firebase_messaging - 14.6.0	To use Firebase cloud messaging API.
flutter_local_notifications - ^14.0.0+2	A cross-platform plugin for displaying local notifications.
firebase_core - 2.12.0	To use the Firebase Core API, which enables connecting to multiple Firebase apps.
flutter_html - ^3.0.0-beta.1	For rendering HTML and CSS as Flutter widgets.
flutter_rating_bar - ^4.0.1	supporting any fraction of the rating.
google_sign_in - ^6.1.0	A secure authentication system for signing in with a Google account on Android or iOS.
url_launcher - ^6.1.11	web, phone, SMS, and email schemes.
fl_chart - 0.62.0	For Line Charts, Bar charts, Pie charts, Scatter charts, and Radar charts.
radial_menu - 0.0.1	For radial menu opening and revealing icons in a circle
Introduction_screen - ^3.1.8	Introduction Screen allows you to have a screen on an app's first launch to, for example, explain your app
provider - ^6.0.5	A wrapper around <u>InheritedWidget</u> to make them easier to use and more reusable
path_provider - ^2.0.15	It finds commonly used locations on the file system.
webview_flutter - ^4.2.0	It provides a webview widget.
flutter_typeahead - ^4.3.8	A highly customizable typeahead (autocomplete) text input field for Flutter
substring_highlight - ^1.0.33	Highlight Flutter text at the character level for simple and customizable search term highlighting.
file - ^6.1.4	It is a generic file system for abstraction for Dart.
confetti - ^0.7.0	For celebration animation

5. Setup Partner App (Technology Flutter)

a. Initial steps to set up and run mobile app

- i. Open the **App** folder in the VSCode
- ii. Run the following commands in the VSCode Terminal

```
flutter clean  
flutter pub get
```

- iii. Additional steps to set up for iOS (You can skip these steps if you don't want to set up for iOS)

1. In the VSCode terminal, go to the ios directory
(using the command **cd ios**)
2. Run the following command to install pods

```
pod install
```

- iv. Connect your Android or iOS device with your machine
(To run on an Apple device, you must have an Apple computer)
- v. Run the following command to run on an Android or iOS device

```
flutter run
```

- vi. To upgrade the Flutter version run the following command in the VSCode Terminal

(Only if your Flutter version is lower than mentioned in this document)

```
flutter upgrade
```

b. Change API base URL

- After the setup of your WebApi and Admin panel, you have to change your webapi base URL for that, go to the file located at **lib\utils\global.dart**


```
String appMode = "LIVE";
Map<String, dynamic> appParameters = {
  "LIVE": {
    "apiUrl": "https://creditapi.nsserver.in/",
  },
  "DEV": {
    "apiUrl": "http://192.168.29.118:1402/",
  }
};
```

c. Change App Name

i. Change the app name in the Android App


1. Change the app name in the file located at **lib\utils\global.dart**

```
String appName = "Credit Partner App";
```



2. Change the app name in the file located at **android/app/src/main/AndroidManifest.xml**

```
<application
  android:label="Credit Partner App"
  android:icon="@mipmap/ic_launcher"
  <activity
```




ii. Change the app name in the iOS App

1. In VSCode

- a. Go to **ios/Runner/info.plist**
- b. Change string of key **CFBundleDisplayName**

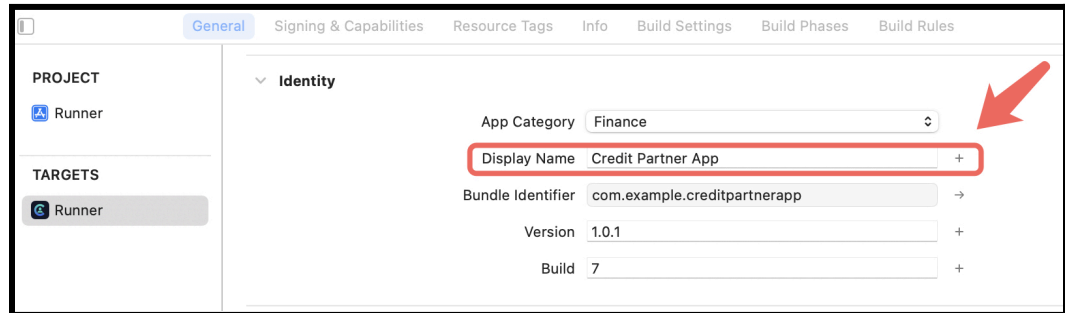
```
<string>$(DEVELOPMENT_LANGUAGE)</string>
<key>CFBundleDisplayName</key>
<string>Credit Partner App</string>
<key>CFBundleExecutable</key>
<string>$(EXECUTABLE_NAME)</string>
```



2. In XCode

- a. Right-click on the **iOS** folder and Choose Open in Xcode Option
- b. Click on the folder icon left side of the XCode window

- c. Select Runner.
- d. Select Target runner
- e. From the General Tab Go to the identity
- f. Change Display Name

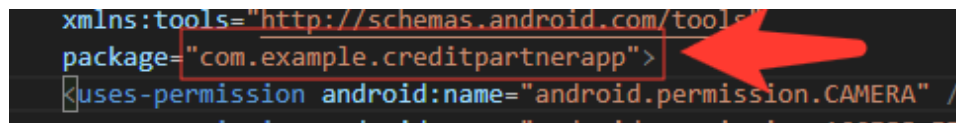


d. Change Package Name/Bundle ID

An app's package name is a unique identifier that is automatically created when you create an app. The term used for iOS apps is "**bundle ID**" and for Android apps, it is "**package name**".

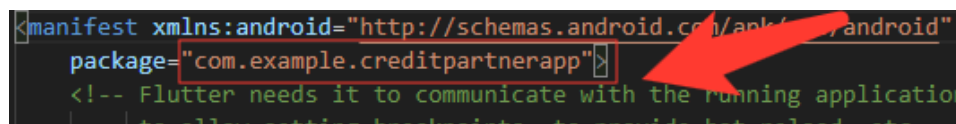
i. Set Package Name for Android App

1. Change the package name in the file located at **android/app/src/main/AndroidManifest.xml**



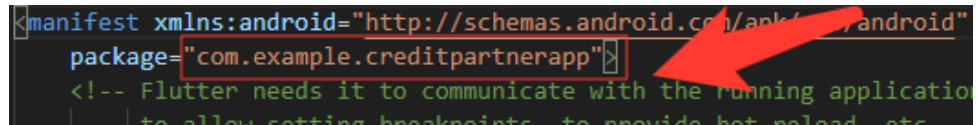
```
xmlns:tools="http://schemas.android.com/tools"
package="com.example.creditpartnerapp">
<uses-permission android:name="android.permission.CAMERA" /
```

2. Change the package name in the file located at **android/app/src/debug/AndroidManifest.xml**



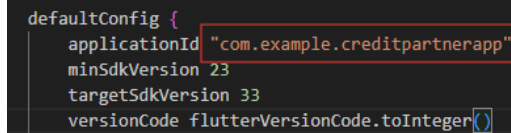
```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="com.example.creditpartnerapp">
<!-- Flutter needs it to communicate with the running application
to allow setting breakpoints, to provide hot reload, etc.
```

3. Change Package Name in file which is located at **android/app/src/Profile/AndroidManifest.xml**



```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.creditpartnerapp"
    <!-- Flutter needs it to communicate with the running application
        to allow setting breakpoints, to provide hot reload, etc.
```

4. Change the Package Name in the file which is located at **android/app/build.gradle**

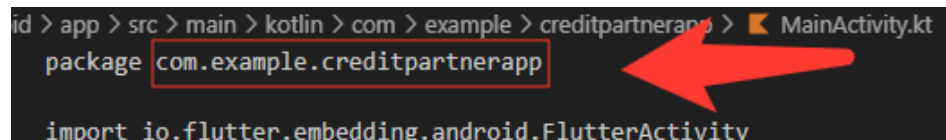


```
defaultConfig {
    applicationId "com.example.creditpartnerapp"
    minSdkVersion 23
    targetSdkVersion 33
    versionCode flutterVersionCode.toInteger()
    versionName flutterVersionName
}
```

5. Change the folder structure for the below path as per your package name.

android\app\src\main\kotlin\com\example\creditpartnerapp

6. Change Package Name in file which is located at **android\app\src\main\kotlin\com\example\creditpartnerapp\MainActivity.kt**

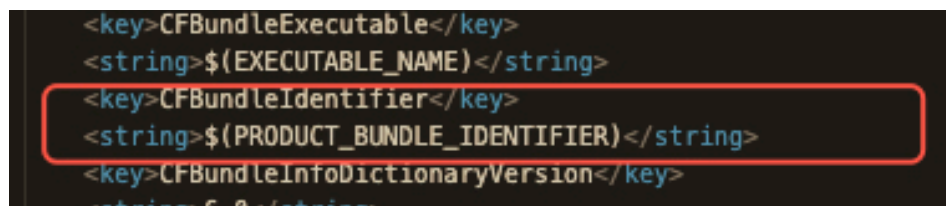


```
id > app > src > main > kotlin > com > example > creditpartnerapp > MainActivity.kt
package com.example.creditpartnerapp
import io.flutter.embedding.android.FlutterActivity
```

- ii. Set Bundle ID for iOS App

1. In VSCode

- a. Go to **ios/Runner/info.plist**
- b. Change the string of key **CFBundleIdentifier**

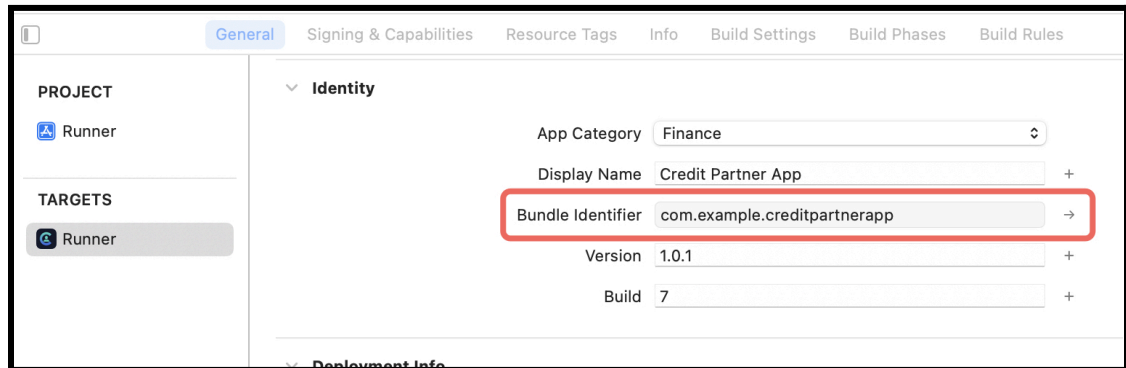


```
<key>CFBundleExecutable</key>
<string>$(EXECUTABLE_NAME)</string>
<key>CFBundleIdentifier</key>
<string>$(PRODUCT_BUNDLE_IDENTIFIER)</string>
<key>CFBundleInfoDictionaryVersion</key>
<string>6.0</string>
```

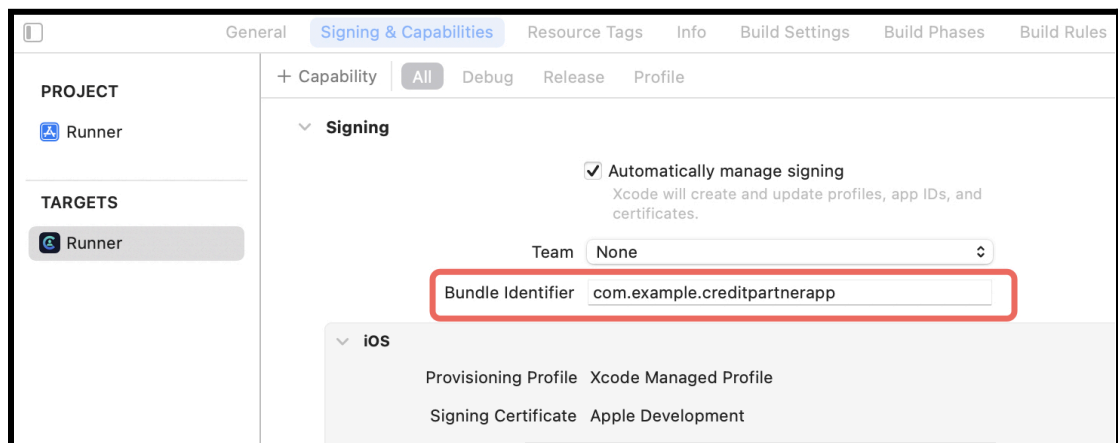
2. In XCode

- a. Right-click on the **iOS** folder and Choose Open in Xcode Option
- b. Click on the folder icon on the left side of the XCode window

- c. Select Runner.
- d. Select Target runner
- e. Go to identity
- f. Change Bundle Identifier



- g. In Signing & Capabilities Go to Signing
- h. Change Bundle Identifier

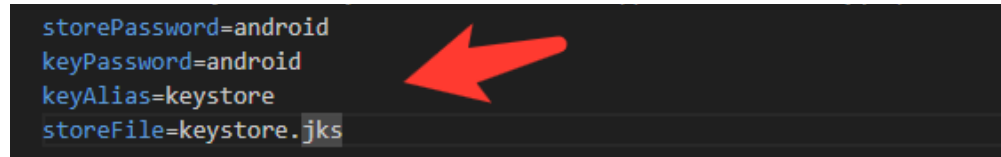


- e. Create and set Keystore file for Android
 - i. Create a keystore.jks file if it does not exist using the below command in the terminal

```
keytool -genkey -v -keystore "path\keystore.jks" -storetype JKS  
-keyalg RSA -keysize 2048 -validity 10000 -alias keystore
```

- ii. Fill in all the details asked while executing the above command

- iii. Recommended. After creating your keystore.jks file, please put it in the **android/app** folder
- iv. Create a key.properties file in the **Android** folder and add the details in the file as per the below screenshot.



```
storePassword=android
keyPassword=android
keyAlias=keystore
storeFile=keystore.jks
```

A screenshot of a code editor showing the contents of a key.properties file. The text is as follows: storePassword=android, keyPassword=android, keyAlias=keystore, storeFile=keystore.jks. A red arrow points from the right towards the file name 'keystore.jks'.

NOTE:

- If you have changed any default value for any of these keys (storePassword, keyPassword, keyAlias, storeFile) while creating the keystore.jks file, then please also change them to the key.properties file.
- If you place your keystore.jks file somewhere else in the project than mentioned in step 5.c.iii then please change storeFile key value accordingly.
- For more details please refer to [this link](#)

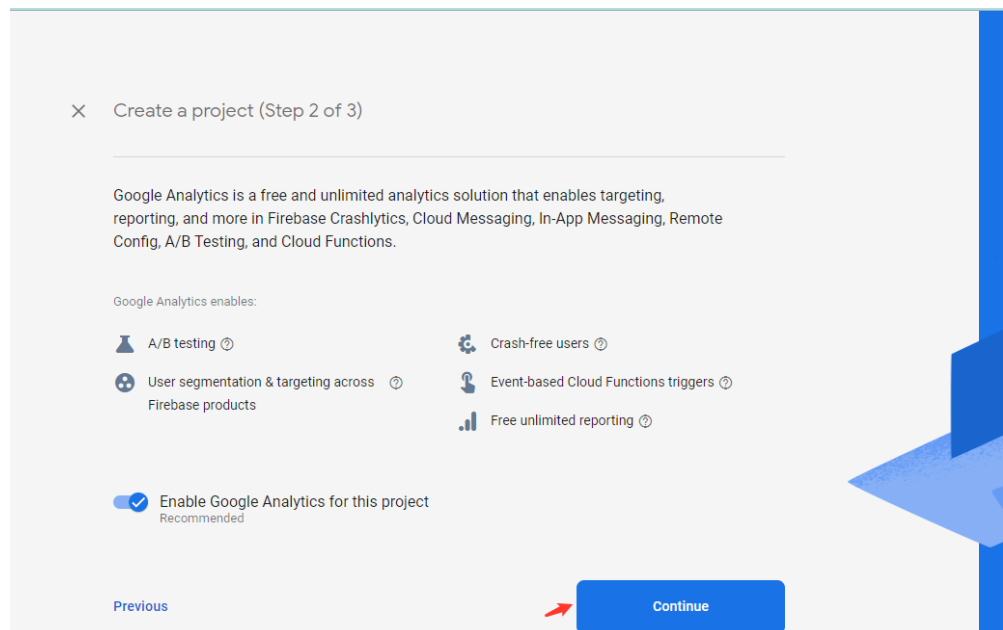
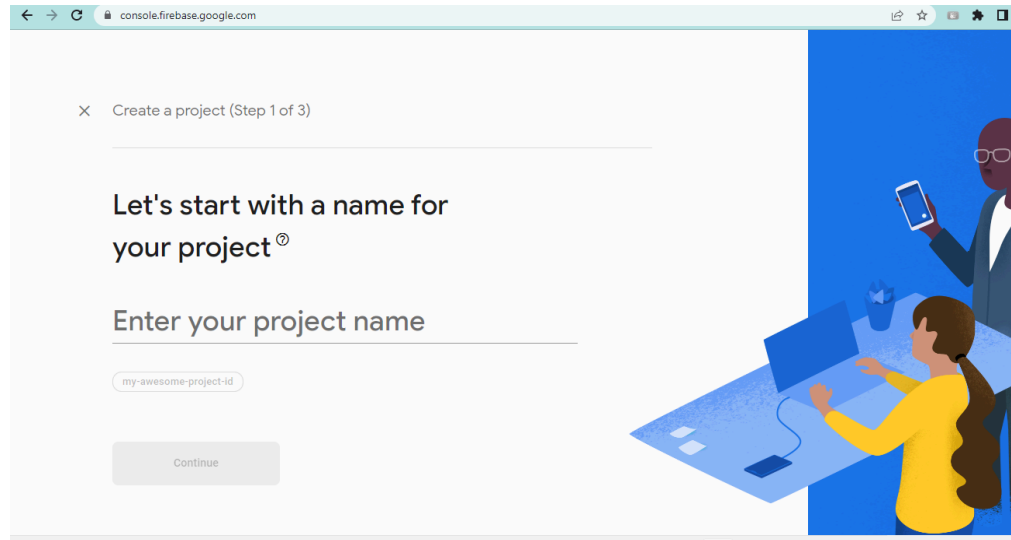
f. Create Firebase Account & Project

In this project, we are using the following Firebase services.

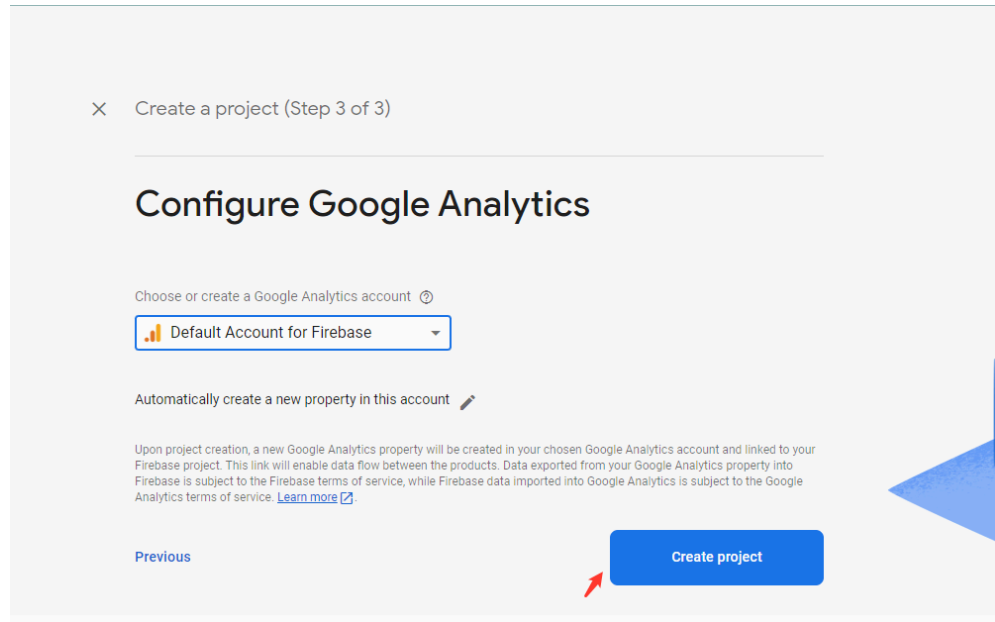
- i. Push Notification
- ii. Phone Authentication
- iii. Firebase Analytics

For this, you need a Firebase account and a project set up in the Firebase. Please follow the below steps for this,

- i. Go to the [Firebase console](#)
- ii. Sign up if you don't have a Google Account or want to create a new account for your project. Otherwise, sign in with your Google Account.
- iii. Click on **Add Project**
- iv. Enter your project name



- v. Select Default Account for Firebase
(or you can create a new account)



- vi. Create project
- g. Set up Android App in Firebase Project
 - i. Go to Firebase console
 - ii. Select the project you created in step 5.d.vi
 - iii. Go to **Project Setting**
 - iv. In the **General** Tab click on the **Add App** button
 - v. Select **Android**
 - vi. Fill out the form and click on the **Register App Button**
(Please check the below screenshot for reference)

Add Firebase to your Android app

1 Register app

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.

Register app

2 Download and then add config file

3 Add Firebase SDK

4 Next steps

- vii. You need SHA keys (SHA-1 and SHA-256) to add once you create the Android App in the above steps.
5. To Generate debug SHA use the below command

```
keytool -list -v -keystore "Your directory path\debug.jks" -alias  
androiddebugkey -storepass android -keypass android
```

6. To Generate release SHA use the below command

```
keytool -list -v -keystore "your directory path\keystore.jks" -alias  
androidreleasekey -storepass your store password -keypass your  
key password
```

After generating the debug and release SHA, you have to add them in the Firebase Console where you have created the Android app.

Please check the screenshot below for the reference.

[illegible]

- viii. Download the `google-services.json` file from Firebase project settings and paste it at the **android/app** location.
- ix. Add Firebase SDK Add the plugin as a build script dependency to your project-level `build.gradle` file:

```
buildscript {
    repositories {
        // Make sure that you have the following two repositories
        google() // Google's Maven repository
        mavenCentral() // Maven Central repository
    }
    dependencies {
        ...
        // Add the dependency for the Google services Gradle plugin
        classpath 'com.google.gms:google-services:4.3.15'
    }
}

allprojects {
    ...
    repositories {
        // Make sure that you have the following two repositories
        google() // Google's Maven repository
        mavenCentral() // Maven Central repository
    }
}
```

- x. Then, in your module (app-level) `build.gradle` file, add both the `google-services` plugin and any Firebase SDKs that you want to use in your app:

```
plugins {
    id 'com.android.application'
    // Add the Google services Gradle plugin
    id 'com.google.gms.google-services'
    ...
}

dependencies {
    // Import the Firebase BoM
    implementation platform('com.google.firebase:firebase-bom:31.5.0')

    // TODO: Add the dependencies for Firebase products you want to use
    // When using the BoM, don't specify versions in Firebase dependencies
    implementation 'com.google.firebase:firebase-analytics-ktx'

    // Add the dependencies for any other desired Firebase products
    // https://firebase.google.com/docs/android/setup#available-libraries
}
```


h. Setup Firebase iOS App

- i. Go to the Firebase console
- ii. Select the project you created in step 5.d.vi
- iii. Go to **Project Setting**
- iv. In the **General** Tab click on the Add App button
- v. Select **iOS**
- vi. Fill out the form and click on the **Register App** Button

(Please check the below screenshot for reference)

× **Add Firebase to your Apple app**

1

Register app

Apple bundle ID ⓘ
com.company.appname

App nickname (optional) ⓘ
My Apple app

App Store ID (optional) ⓘ
123456789

Register app

2

Download config file

3

Add Firebase SDK

4

Add initialisation code

5

Next steps

- vii. Download the GoogleService-info.plist file from Firebase project settings and paste it at the **ios/Runner** location in the app
- viii. XCode Project Setting

This step covers reviewing the most important settings in the XCode workspace. For detailed procedures and descriptions, see [Prepare for App Distribution](#)

7. Navigate to your target's settings in XCode:

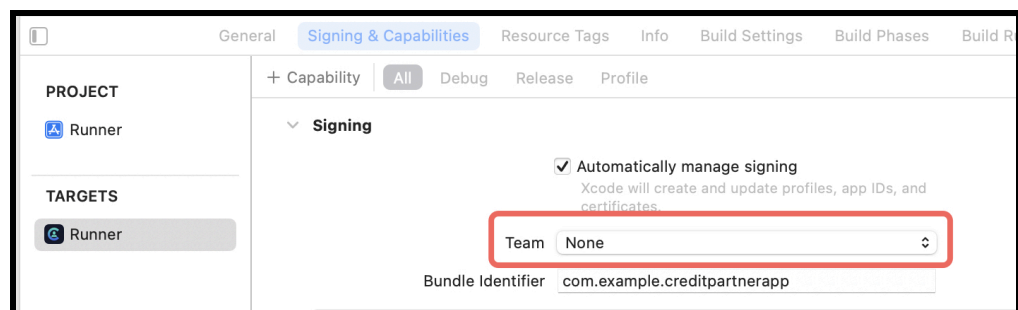
- a. Open the default Xcode workspace in your project by running the below command in a terminal window from your Flutter project directory.

open ios/Runner.xcworkspace

- b. To view your app's settings, select the Runner target in the Xcode navigator.

8. Verify the most important settings

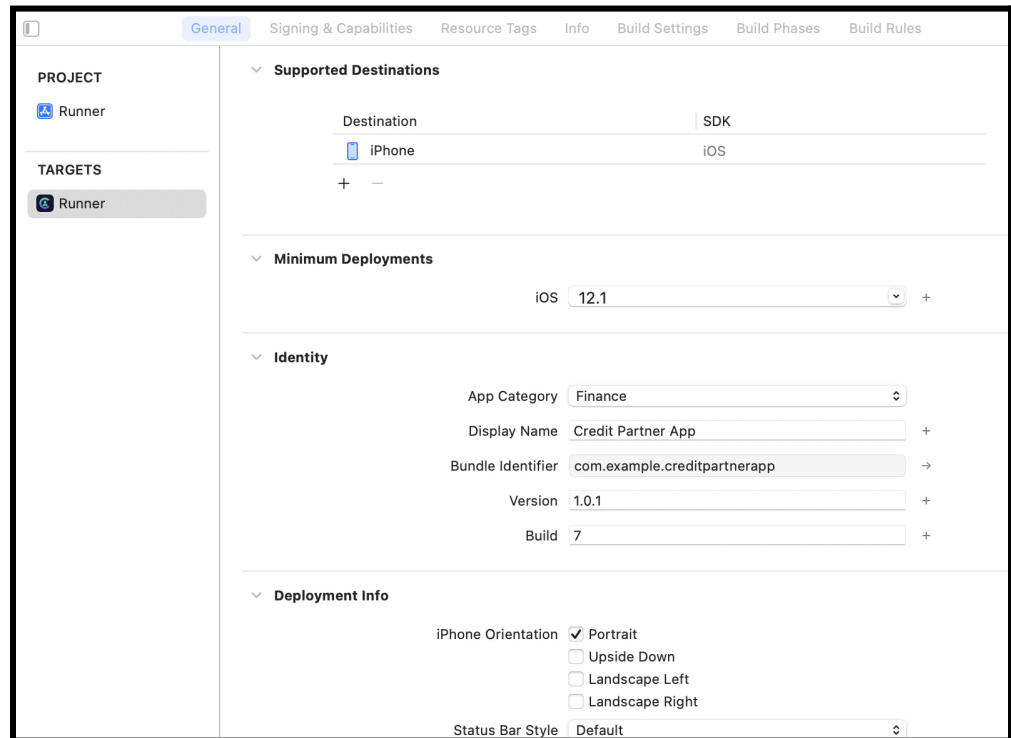
- a. In the Identity section of the General tab
 - i. **Display Name** (The display name of your app.)
 - ii. **Bundle Identifier** (The App ID you registered on App Store Connect.)
- b. In the Signing & Capabilities tab
 - i. **Automatically manage signing** (Xcode should automatically manage app signing and provisioning. This is set true by default, which should be sufficient for most apps. For more complex scenarios, see the [Code Signing Guide](#))
 - ii. **Team** (Select the team associated with your registered Apple Developer account. If required, select Add Account..., then update this setting.)



- c. In the deployment section of the build settings tab:

- i. iOS Deployment Target

1. The minimum iOS version that the app supports is 11.0.
2. The General tab of your project settings should resemble the following:

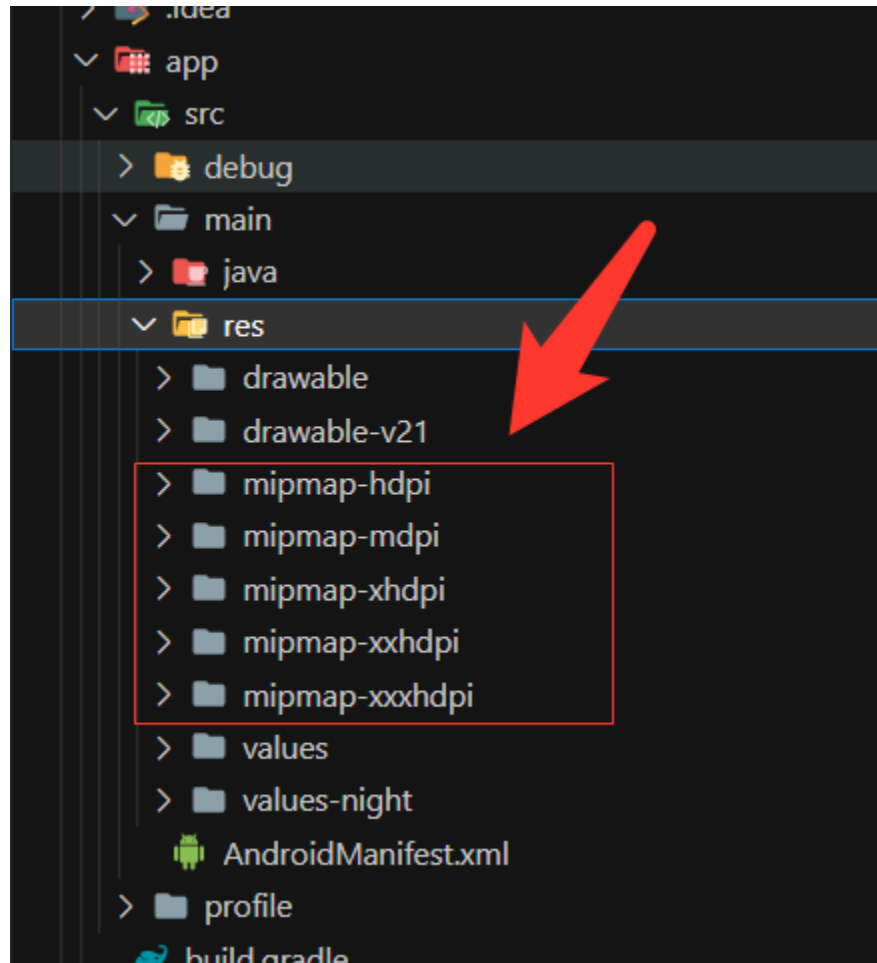


For a detailed overview of app signing, see [Create, export, and Delete signing certificates](#).

i. Change App Icon

i. For Android

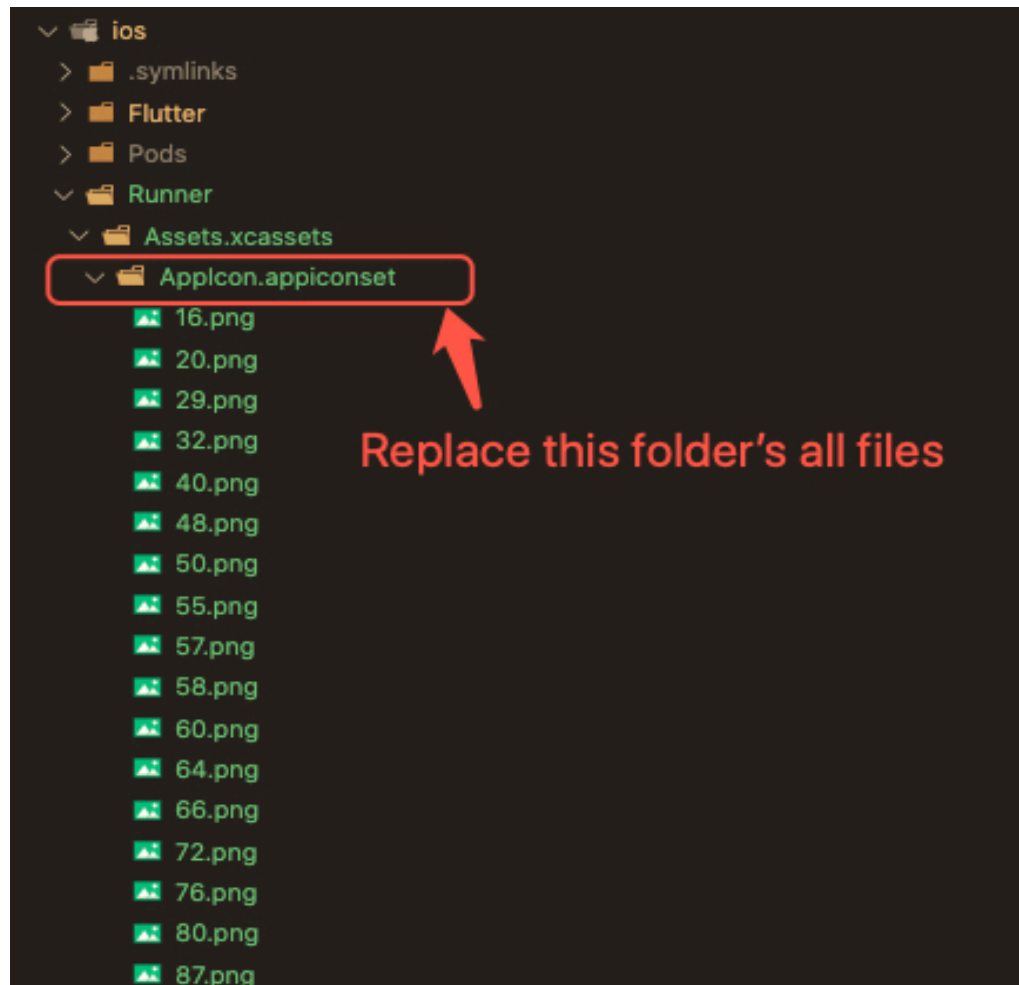
Replace the icons in the **android\app\src\main\res** folder as shown in the below image.



ii. For iOS

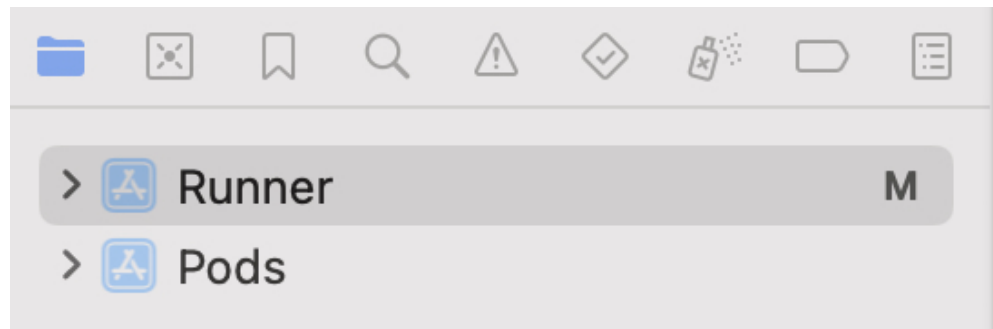
1. Replace the icons in the below folder as shown in the below image

ios\Runner\Assets.xcassets\AppIcon.appiconset



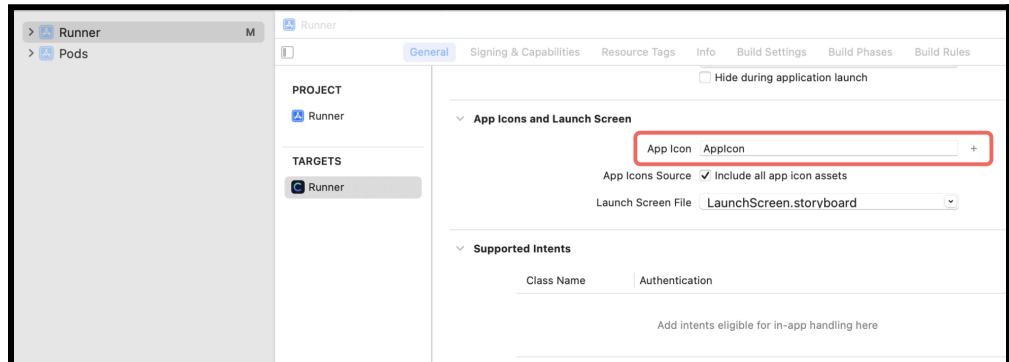
2. Change icons using XCode

- Right-click on the iOS folder Choose Open in Xcode Option
- Click on the folder icon on the left side of the XCode window

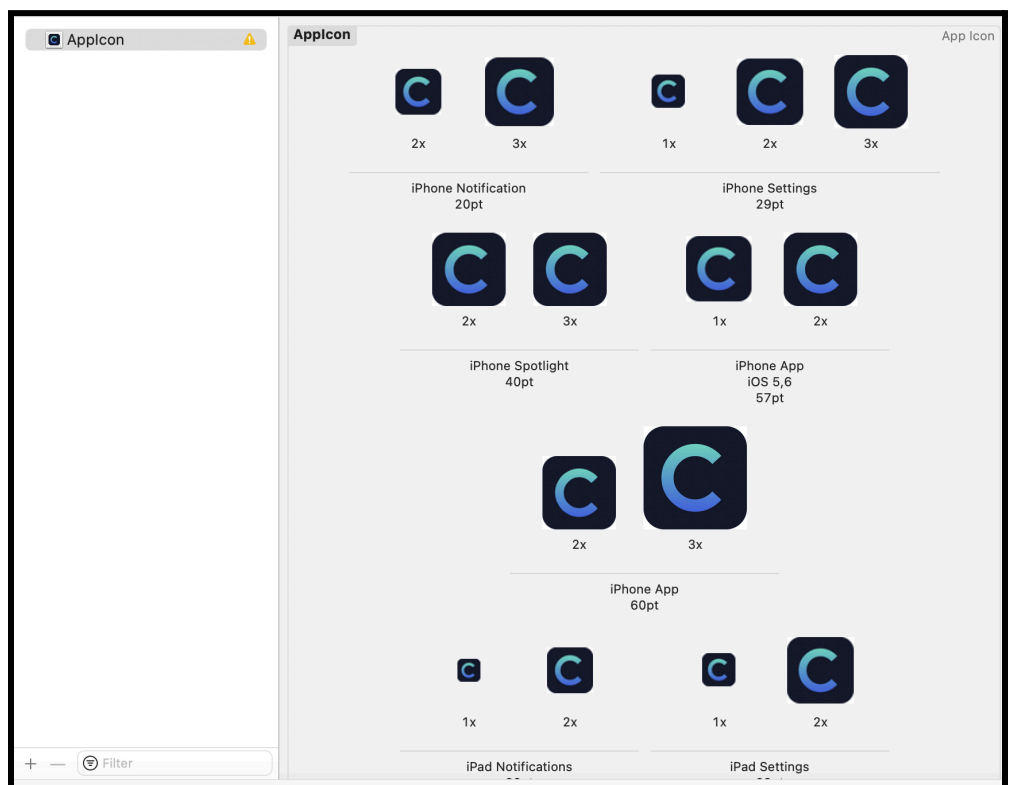


- Select Runner.

- d. Select Target runner
- e. Go to App Icons And Launch Images
- f. Click the right arrow button of the app icon source



- g. Replace all the icons according to their size



NOTE:

- If you want to generate the App icon bundle from any image you have, you can generate it from publicly available websites like

<https://www.appicon.co/>

j. Build Release for Android

- i. Open Project in VS Code
- ii. In Terminal Execute the below commands

```
flutter clean  
flutter pub get  
flutter build apk --release
```

- iii. After making the release, to generate the release bundle Execute the below command

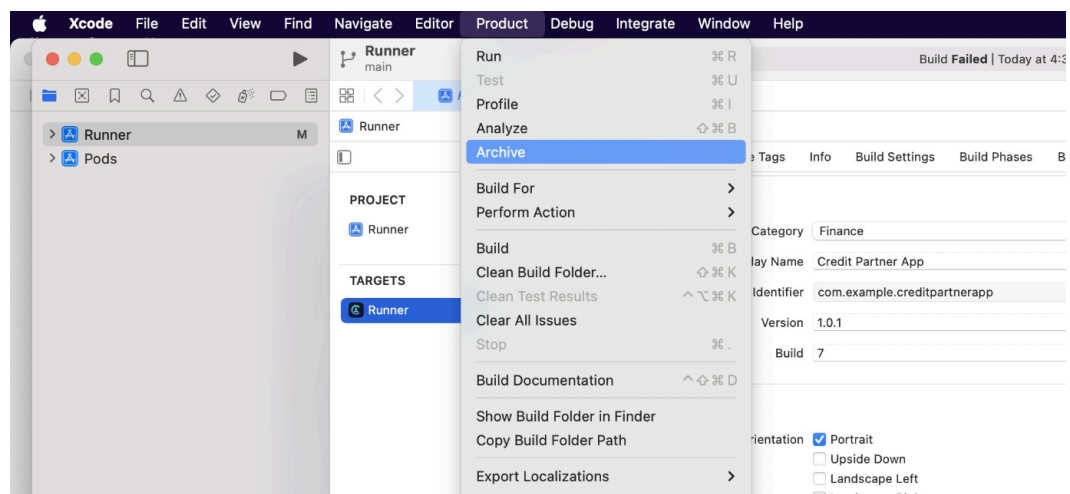
```
flutter build appbundle --release
```

- iv. Get the APK from the below path

build\app\outputs\flutter-apk\app-release.apk

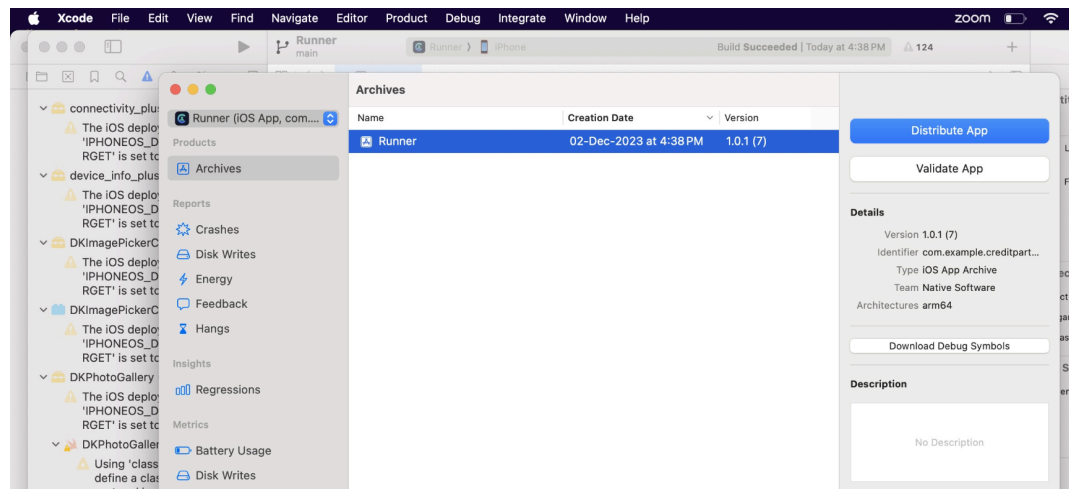
k. Build Release for iOS

- i. Open Project in XCode
- ii. Select **Archive** from the **Product Menu**



- iii. After successfully archiving select the **Organizer** option from the **Windows** menu

- iv. After clicking on it opens one popup for Archive, Click on the **Distribute App** Button



- v. After successfully done, you can upload this app to your Apple developer account in the TestFlight

- vi. To publish your app from TestFlight please follow [this link](#)

I. Other Options for the Advanced User

- i. Paths to the images used in the app

Images	Path	Screen Path
Splash screen	assets/web-logo.png	lib/views/splash/splash_screen.dart
Introduction screen	assets/intro_image1.png	lib/views/introduction/introduction_screen.dart
	assets/intro_image2.png	lib/views/introduction/introduction_screen.dart
	assets/intro_image3.png	lib/views/introduction/introduction_screen.dart
Dashboard screen	assets/images/appbarimg.png	lib/views/dashboard/dashboard_screen.dart
	assets/images/occupation.png	lib/views/dashboard/dashboard_screen.dart

- ii. Fonts used in the app. If you want to change, you can make the changes in the **pubspec.yaml** file and the **Assets** folder.

Roboto	assets/fonts/Roboto-Black.ttf
	assets/fonts/Roboto-Bold.ttf

	assets/fonts/Roboto-Regular.ttf
--	---------------------------------

- iii. Colors used in the app. If you want to change the colors you can make the changes in the file **lib/Theme/nativeTheme.dart**

#	Color code
Primary color	#32D6D8
Primary swatch color	#32D6D8
Text button - background color	#32D6D8
Card - Color	white
Card - shadow color	grey[200]
AppBar theme - color	white
Checkbox - check color	white
Checkbox - fill color	#32D6D8
scaffoldBackgroundColor	white
Dialog -background color	white

- iv. Packages used in the app are listed below. You can find them in **pubspec.yaml** file.

Package Name - Version	Description
pininput - ^2.0.5	For the OTP text field
font_awesome_flutter - ^10.4.0	To access the icon of font-awesome
Material_design_icons_flutter - 6.0.7096	The Material Design Icons designed by the community for Flutter
dotted_border - 2.0.0+3	A flutter package to easily add dotted borders around widgets
cupertino_icons - ^1.0.5	For UI design
scratcher - ^2.3.0	For Scratch card
convex_bottom_bar - ^3.2.0	For BottomAppBar
share_plus - ^7.0.0	A Flutter plugin to share content from your Flutter app via the platform's share dialog.
dots_indicator - 2.1.2	To display dots indicator to show a position

flutter_document_picker - 5.2.1	The picked document is copied
file_picker - ^5.3.0	Pick single or multiple files
sms_autofill - ^2.3.0	The SMS autofill is provided by default
mobile_number - 2.1.1	For fetching the device's mobile number or list SIM card data
otp_autofill - 2.1.0	For OTP autofill using User Consent API and Retriever API
open_file - ^3.3.1	to open files
image_cropper - ^4.0.1	Flexible image cropping
flutter_image_compress - ^2.0.3	Compresses image as native plugin.
get - 4.6.5	Stat management
get_storage - ^2.1.1	A fast, extra light key value in memory, which backs up data to disk at each operation.
flutter_svg - ^2.0.5	For drawing svg files.
connectivity_plus - ^4.0.0	To check the connectivity of the device
http - ^0.13.6	For consuming HTTP resources
shared_preferences - ^2.1.1	To store something locally
shimmer - 2.0.0	Easy way to add shimmer effect
carousel_slider - ^4.2.1	A carousel slider widget
number_to_words - 1.0.0	For convert number to words by
device_info_plus - ^9.0.0	To get device info
step_progress_indicator - ^1.0.2	Bar indicator made of a series of selected and unselected steps
permission_handler - ^10.2.0	This plugin provides a cross-platform API to request and check permission
date_format - ^2.0.7	A simple API to format dates
Syncfusion_flutter_pdfviewer - 20.3.61-beta	Flutter PDF Viewer library is used to display a PDF document seamlessly and efficiently.
page_view_indicators - 2.0.0	Customizable indicators for your PageViews.
image_picker - ^0.8.7+5	For picking an image
cached_network_image - ^3.2.3	To show the image from internet
flutter_custom_clippers - ^2.1.0	custom clippers to help you achieve various custom shapes.

intl - ^0.17.0	To Provide internationalization and localization facilities, including message translation, plurals and genders, date/number formatting and parsing, and bidirectional text.
firebase_auth - ^4.6.0	To use the firebase authentication API.
firebase_analytics - ^10.4.0	A Flutter plugin to use the Google Analytics for Firebase API.
Firebase_dynamic_links - ^5.3.1	For Google Dynamic Links for Firebase
firebase_messaging - 14.6.0	To use Firebase Cloud Messaging API.
flutter_local_notifications - ^14.0.0+2	A cross-platform plugin for displaying local notifications.
firebase_core - 2.12.0	To use the Firebase Core API, which enables connecting to multiple Firebase apps.
flutter_html - ^3.0.0-beta.1	For rendering HTML and CSS as Flutter widgets.
fl_chart - 0.62.0	For Line Chart, Bar Chart, Pie Chart, Scatter Chart, and Radar Chart.
Introduction_screen - ^3.1.8	Introduction Screen allows you to have a screen on an app's first launch to, for example, explain your app
provider - ^6.0.5	A wrapper around <u>InheritedWidget</u> to make them easier to use and more reusable
path_provider - ^2.0.15	It finds commonly used locations on the file system.
webview_flutter - ^4.2.0	It provides a webview widget.
store_redirect - ^2.0.2	To redirect users to an app page in the Google Play Store and Apple App Store.
substring_highlight - ^1.0.33	Highlight Flutter text at the character level for simple and customizable search term highlighting.
file - ^6.1.4	It is a generic file system for abstraction for Dart.
confetti - ^0.7.0	For celebration animation
flutter_downloader - ^1.10.3	For easy to download files.

USEFUL LINKS

- To set up NodeJS with Typescript from scratch you can use [this link](#)
- To set up MySQL database you can use [this link](#)
- For more information on iOS refer to [this link](#)

This document was last updated on 23 Augustl 2024.