



FLUTTER & FIREBASE **PREPARATION GUIDELINE**

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May 2025

REQUIREMENT.

INSTALL ON PC.

- Visual Studio Code
- Flutter SDK
- Firebase CLI
- Google Maps API

Required Accounts

- Google Account



Visual Studio Code

VISUAL STUDIO CODE.

Step 1: Download VS Code

- Visit (<https://code.visualstudio.com/>).
- Click on the download button for your operating system (Windows, macOS).

Step 2: Install VS Code

- Run the installer you downloaded and follow the installation wizard steps.

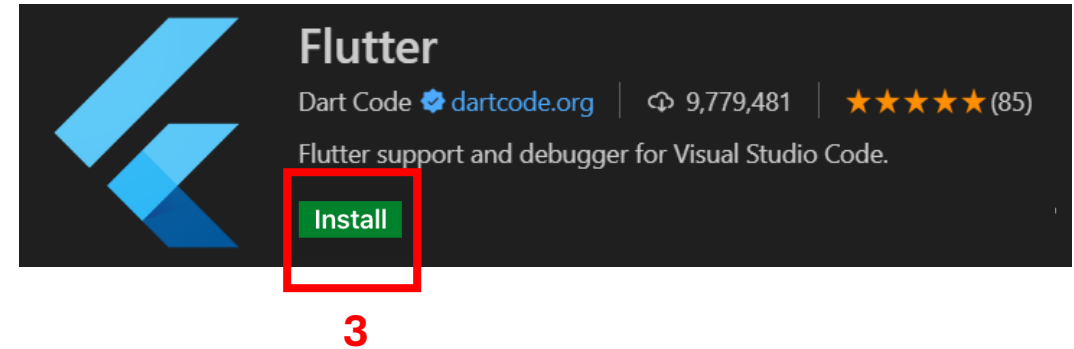
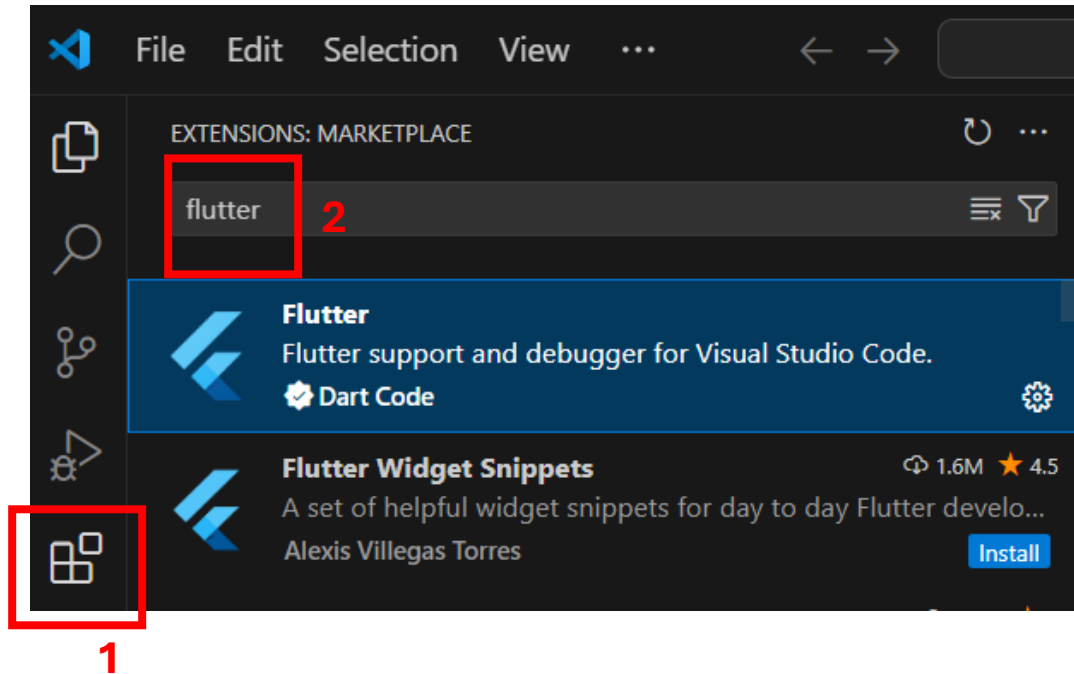


Flutter

FLUTTER SDK – VISUAL STUDIO CODE.

Follow the guide in this webpage, Install Flutter with VS Code for your platform

- <https://docs.flutter.dev/install/with-vs-code>





Firebase

FIREBASE.

Step 1: Sign up for Google Firebase:

- <https://console.firebase.google.com/u/0/>

Step 2: Create a Firebase Project.

- Name it anything you like.
- For this demo, You may just leave the Analytics **“Disabled”**.

FIREBASE CLI.

Step 1: Download and Install Firebase CLI:

- <https://firebase.google.com/docs/cli>

Preferred method is using **npm**, as it's useful for accommodating other packages in future.

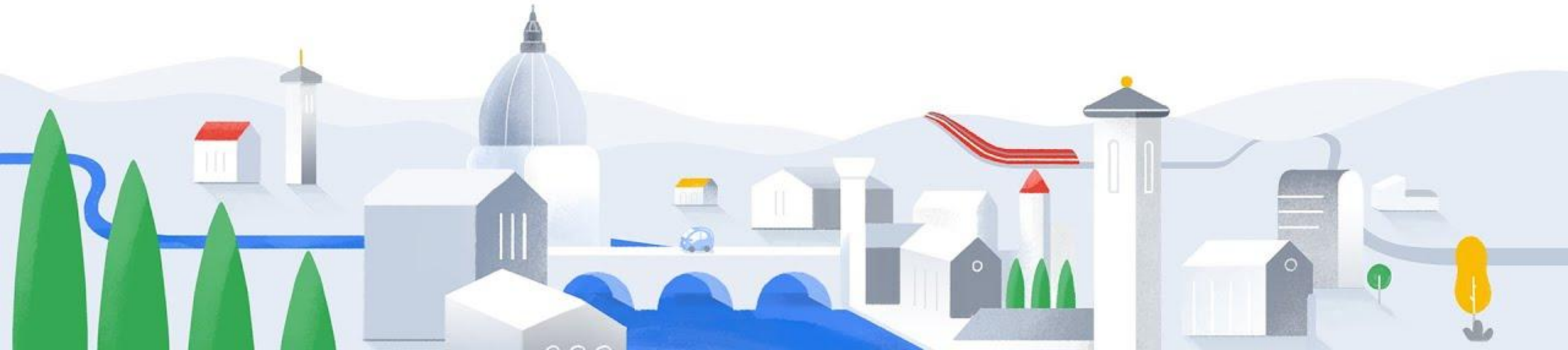
- Simply Install **Node.js** from <https://nodejs.org/en>
- Open your command prompt
- Run the command **npm install -g firebase-tools**

Step 2: Login to ensure firebase is working.

- Run **firebase login** and follow the instructions to log in to your account
- Run **firebase projects:list**
- If you could find your project created in previous step, it means successful installation.



Google Maps



GOOGLE MAPS API.

IMPORTANT NOTE:

- You are required to enter a valid **debit/credit card** to use Google Cloud resources including the google maps API.
- You would received \$300 in credit to spend over 90 days after sign up.
- Google Cloud pricing is based on **Pay only for what you use**. It means on You won't be charged, (even for your \$300 free credits) unless you use any resources on google cloud.
- Google Maps API pricing:
 - \$200 usage every month for no charge (only charged after exceeding \$200).
 - How the usage/cost is calculated: <https://mapsplatform.google.com/pricing/>

This part of the workshop is optional.

If you would like to use Google Maps in your project, you may sign up and try it.

Otherwise, you may just enjoy the Demo 😊

GOOGLE MAPS API.

Step 1: Create a Google Cloud Account and create a new project:

- <https://cloud.google.com/>

Step 2: Enable the Google Maps API in your project.

- <https://console.cloud.google.com/google/maps-apis/api-list>
- Search for “**Maps JavaScript API**” and Click “Enable”

Step 3: Go to Credentials Tab.

Step 4: Click on “+ Create Credentials” on the top, and select API Key. Copy and Save this key, to be used in the flutter application being built in the class

THANK YOU AND SEE YOU ON
28 MAY 2025