What you need~~

* Flutter: Download
* Python: Download
* VScode: Download

The backend is consisting of python programming

While the front end consists of Flutter Programming

Setting up API Key: Challenge.

* The reason is that you need to set it up in a variable environment and when passing code, you need to keep that key hidden or not viewable
* Faults of showing API: If a malicious entity gains access to your secret API key, they could potentially impersonate you, gaining the ability to access or alter your data, functionality, and resources. (Danger)
* pip3 install python-dotenv: this will ensure you access environment in python

In VScode Terminal: type

* In python311 > Scripts: CMD required
  + You will see pip, and pip3
  + Copy the path
  + Paste the path in the variable environment
  + Then you will now have the power to install flask
* pip3 install flask requests jsonify: type this in vscode terminal - done
* pip3 install google-generativeai
* additional Python packages: For Document Processing
  + pip3 install python-docx
  + pip3 install pdfplumber

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Front End

* File Picker package in pub dev put in pubspec.yaml

For Documentation use:

<https://github.com/miguelpruivo/flutter_file_picker/wiki/FAQ>

* Flutter pdfview in pub dev to put in pubspec.yaml
* firebase\_auth: ^5.3.1
* google\_sign\_in: ^6.2.1
* firebase\_core: ^3.6.0
* cloud\_firestore: ^5.4.3

**My Problem: Webpage not showing because of:**

>>>>> FirebaseOptions cannot be null when creating the default app.

* The problem is the firebase is returning false
* <https://stackoverflow.com/questions/70232931/firebaseoptions-cannot-be-null-when-creating-the-default-app>
* Great way of showing the problem and two solutions for this problem
* I thought because this is because it is built in OSI and that needs to be changed but I am doubtful
* The problem is within the initialization
* Also this: <https://stackoverflow.com/questions/70410843/firebasecommandexception-an-error-occured-on-the-firebase-cli-when-attempting-t?page=1&tab=scoredesc#tab-top>

**New Problem: The OAuth token was not passed to gapi.client, since the gapi.client library is not loaded in your page.**

* Just –web-port it to 5000
* Also, since the problem with the google login package not working on web page you need to render the button??

<https://github.com/waterbustech/waterbus/blob/feat/waterbus-v2/packages/auth/lib/auth.dart#L20>

To learn more about Flask go to

<https://github.com/ParvNarang/Flask-Flutter-API>

<https://flask.palletsprojects.com/en/3.0.x/quickstart/#a-minimal-application>

flask --app app.py run: Put this on the cmd terminal.