

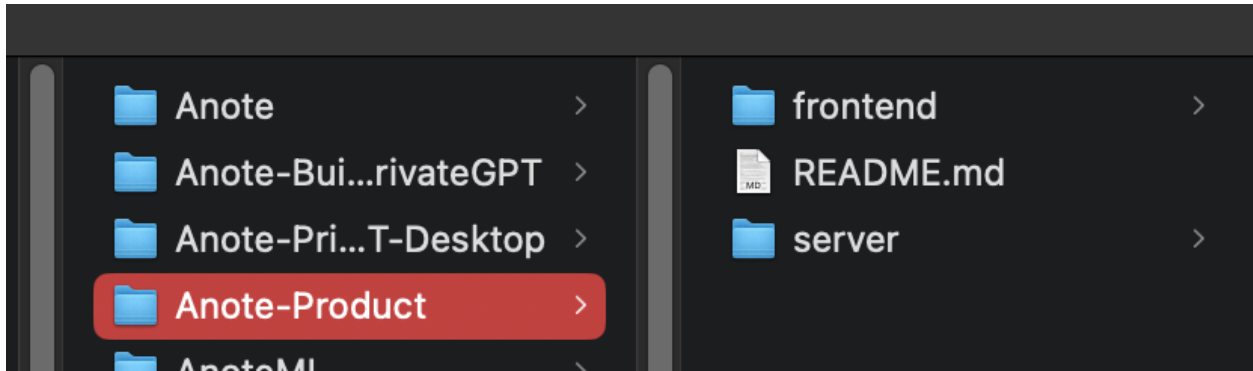
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## 1. Initial setup

Clone the repo:

\$ git clone <https://github.com/nv78/Autonomous-Intelligence>

You should have a folder that looks as follows:



## 2. Frontend

If you haven't installed/used react before and you do not have Node.js installed on your computer, follow instructions here: <https://nodejs.org/en/>

Cd into the frontend folder:

\$ cd frontend

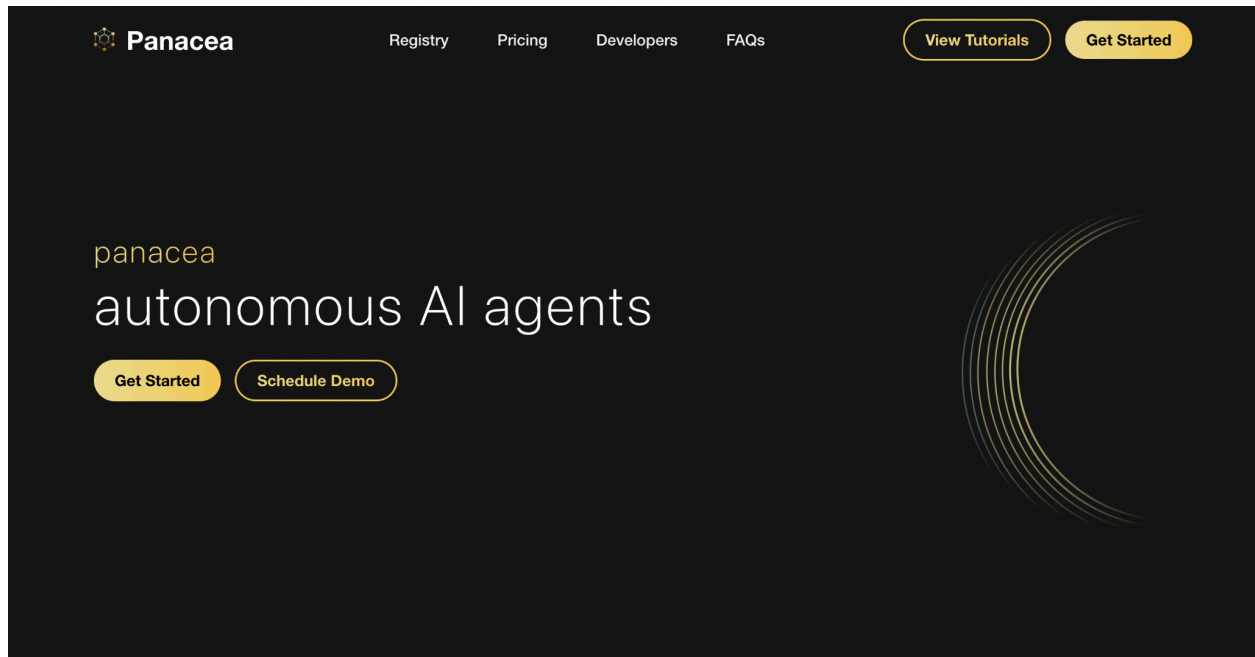
Then do:

\$ npm install (might have to do npm install --force)

Once that is done, to start the frontend:

\$ npm start

Navigate to localhost on your browser and it should look like this



### 3. Backend

#### 3.1 Setting up Python environment

To best manage Python libraries and dependencies, use a conda environment:

<https://conda.io/projects/conda/en/latest/user-guide/install/index.html>

Now create a new conda environment:

```
$ conda create -n anote python=3.10.13
```

Make sure you are in the folder "server" by doing `cd server` (or `cd ../server` if you are in the frontend folder)

Then do:

```
$ pip install -r requirements.txt
```

Now add the flask environment variables:

```
$ export APP_ENV=local
```

```
$ export IS_PROD=false
```

To check that it's working, run:

```
$ flask run
```

You should get an output in your terminal:

```

~[Anote-Product]/server sdk *5 !1 ?2 python -m flask run
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
/Users/EdenChung/anaconda3/envs/anote-product/lib/python3.10/site-packages/requests/__init__.py:109: RequestsDependencyWarning: urllib3 (1.26.16) or chardet (5.2.0)/charset_normalizer (3.3.2) doesn't match a supported version!
  warnings.warn(
2024-05-15 21:38:29,799 INFO worker.py:1636 -- Started a local Ray instance.
INFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
INFO:werkzeug:Press CTRL+C to quit

```

### 3.2 Setting up MySQL environment

Download version of MYSQL Workbench compatible with your OS

(<https://dev.mysql.com/downloads/mysql/>)

```
$ mysql -u root -p
```

```
$ create database agents;
```

Go to the server/database folder and run the initialization of the db:

```
$ cd server/database
```

```
$ python init_db_dev.py
```

Check that it worked:

```
$ mysql -u root -p
```

Log into the mysql CLI then run from inside the mysql CLI:

```
mysql> use agents;
```

```
mysql> show tables;
```

It should look like this:

```
mysql> show tables;
+-----+
| Tables_in_anote |
+-----+
| accuracy          |
| additionalDatasetPrivileges |
| annotatorLabels   |
| api_call_logs     |
| apiKeys            |
| categories         |
| chunkOrder         |
| chunks            |
| datasets           |
| documents          |
| entities           |
| entityClassification |
| entityClassifications |
| importantTextSubsets |
| labelingFunctionCategories |
| labelingFunctions  |
+-----+
```

### **Running the application**

To run the web app, you need two terminal windows/tabs. On one, you will run the frontend:

```
$ npm start
```

On the other, you will run the backend:

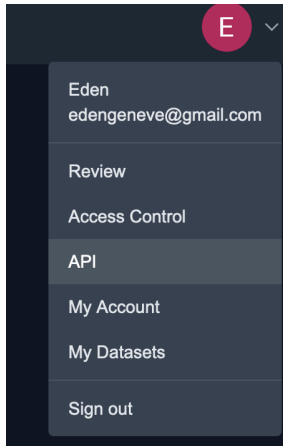
```
$ flask run
```

To check they are both working, on localhost on your browser, try to login using your google account using google auth

To run the SDK, you need to run the backend using

```
$ flask run
```

You will also need to get the API key locally. To do so, run the frontend, log in, then click your profile and select API:



Create a new API key and store this somewhere

To test the SDK locally, you will need this API key. Replace it on line 15.

```
server > sdk > public_api_test > testing_functions > new_testing_API.py > ...
1  import requests
2  import csv
3  from enum import Enum
4  import os
5  import json
6
7  from core3 import Anote
8
9  class NLPTask(Enum):
10     TEXT_CLASSIFICATION = 0
11     NAMED_ENTITY_RECOGNITION = 1
12     PROMPTING = 2
13
14  if __name__ == "__main__":
15     api_key = 'b6d540043f142c9750087e0bb08ae942'
16     dataset = Anote(api_key)
```

### Common bugs/debugging techniques

If your backend isn't working properly, make sure you did (even if you did it at the start, might have to redo it):

```
$ export APP_ENV=local
```

```
$ export IS_PROD=false
```

If flask run doesn't work, try: `python -m flask run`