

STARS-GPT Installation Guide

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**** Note:** All the .env files will be shared with the maintainers of this project.

Frontend:

1. Clone the repository by running this command: ``git clone https://github.com/STARS-Tutoring-Chatbot/Frontend.git``

```
Last login: Thu Apr 25 15:52:00 on ttys001
(base) vincentcarrancho@Vincent-MBP ~ % cd
(base) vincentcarrancho@Vincent-MBP ~ % cd /Users/vincentcarrancho/Desktop/Cap2-Repos/installation-guide
(base) vincentcarrancho@Vincent-MBP installation-guide % git clone https://github.com/STARS-Tutoring-Chatbot/Frontend.git
```

2. Change directory into the repository root.
3. Install the dependencies for the project by running ``npm install``

```
Last login: Thu Apr 25 15:52:00 on ttys001
(base) vincentcarrancho@Vincent-MBP ~ % cd
(base) vincentcarrancho@Vincent-MBP ~ % cd /Users/vincentcarrancho/Desktop/Cap2-Repos/installation-guide
(base) vincentcarrancho@Vincent-MBP installation-guide % git clone https://github.com/STARS-Tutoring-Chatbot/Frontend.git
Cloning into 'Frontend'...
remote: Enumerating objects: 810, done.
remote: Counting objects: 100% (378/378), done.
remote: Compressing objects: 100% (245/245), done.
remote: Total 810 (delta 218), reused 232 (delta 122), pack-reused 432
Receiving objects: 100% (810/810), 589.41 KiB | 5.36 MiB/s, done.
Resolving deltas: 100% (471/471), done.
(base) vincentcarrancho@Vincent-MBP installation-guide % cd Frontend
(base) vincentcarrancho@Vincent-MBP Frontend % npm install
```

4. Create a .env file in the repository root. You can do this by running ``touch .env``. Or you may open up a code editor inside that folder and create a .env file.

```
Last login: Thu Apr 25 15:52:00 on ttys001
(base) vincentcarrancho@Vincent-MBP ~ % cd
(base) vincentcarrancho@Vincent-MBP ~ % cd /Users/vincentcarrancho/Desktop/Cap2-Repos/installation-guide
(base) vincentcarrancho@Vincent-MBP installation-guide % git clone https://github.com/STARS-Tutoring-Chatbot/Frontend.git
Cloning into 'Frontend'...
remote: Enumerating objects: 810, done.
remote: Counting objects: 100% (378/378), done.
remote: Compressing objects: 100% (245/245), done.
remote: Total 810 (delta 218), reused 232 (delta 122), pack-reused 432
Receiving objects: 100% (810/810), 589.41 KiB | 5.36 MiB/s, done.
Resolving deltas: 100% (471/471), done.
(base) vincentcarrancho@Vincent-MBP installation-guide % cd Frontend
(base) vincentcarrancho@Vincent-MBP Frontend % npm install

added 1019 packages, and audited 1020 packages in 5s

361 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
(base) vincentcarrancho@Vincent-MBP Frontend % touch .env
(base) vincentcarrancho@Vincent-MBP Frontend % vim .env
```

5. Open the .env file you have just made. Then paste in contents (this installation guide will not provide you with the API Keys to prevent abuse).

6. Once you are finished modifying the .env file. Exit out and run the command `npm run dev`. This will launch the development server.

```
Press ENTER or type command to continue
(base) vincentcarrancho@Vincent's-MBP Frontend % npm run dev
```

```
> stars-ai@0.0.0 dev
> vite

VITE v5.0.12 ready in 256 ms
+ Local: http://localhost:5173/
+ Network: use --host to expose
+ press h + enter to show help
```

7. Clicking on localhost will open the browser to the development version of the application. If you want to build for production, visit this guide: <https://vitejs.dev/guide/build>. However, if you are using a service like Render.com or Vercel, follow their instructions

KEYWORDS: Vite, Typescript, React, npm, Build

Backend

1. Clone Backend repository and change directory in it:

```
(base) vincentcarrancho@Vincent's-MBP installation-guide % git clone https://github.com/STARS-Tutoring-Chatbot/Backend.git
Cloning into 'Backend'...
remote: Enumerating objects: 236, done.
remote: Counting objects: 100% (236/236), done.
remote: Compressing objects: 100% (163/163), done.
remote: Total 236 (delta 123), reused 160 (delta 61), pack-reused 0
Receiving objects: 100% (236/236), 59.60 KiB | 1.42 MiB/s, done.
Resolving deltas: 100% (123/123), done.
(base) vincentcarrancho@Vincent's-MBP installation-guide % cd Backend
(base) vincentcarrancho@Vincent's-MBP Backend %
```

2. Create a virtual environment that the development server can use. To create it you can use Anaconda or Venv. We will be using venv. Run this command while in the root repository directory `python3 -m venv .venv`. This will create a virtual environment folder named .venv inside of the project.

```
(base) vincentcarrancho@Vincent's-MBP installation-guide % git clone https://github.com/STARS-Tutoring-Chatbot/Backend.git
Cloning into 'Backend'...
remote: Enumerating objects: 236, done.
remote: Counting objects: 100% (236/236), done.
remote: Compressing objects: 100% (163/163), done.
remote: Total 236 (delta 123), reused 160 (delta 61), pack-reused 0
Receiving objects: 100% (236/236), 59.60 KiB | 1.42 MiB/s, done.
Resolving deltas: 100% (123/123), done.
(base) vincentcarrancho@Vincent's-MBP installation-guide % cd Backend
(base) vincentcarrancho@Vincent's-MBP Backend % python3 -m venv .venv
```

3. Active the virtual environment by running the command `source .venv/bin/activate`.
4. **NOTE! When you cloned the repository, it most likely cloned into the production branch. That branch is configured to read environment variables from the OS instead of a .env file.** If you run into errors, configure the application to read environment variables from a file instead of the OS (**Modify this file: src/langchainAPI/ModelSingleton.py**).
 - a. Follow the steps from Frontend instruction in how to make the .env file. This only works by if you configure the backend repository to read from the .env file.

5. Install the dependencies `pip install -r requirements.txt`

```
(.venv) (base) vincentcarrancho@Vincent-MBP Backend % source .venv/bin/activate
(.venv) (base) vincentcarrancho@Vincent-MBP Backend % pip3 install -r requirements.txt
Collecting aiohttp==3.9.3 (from -r requirements.txt (line 1))
  Obtaining dependency information for aiohttp==3.9.3 from https://files.pythonhosted.org/packages/d3/b0/efb74d5f92a460c774e0254b3109c2d00fd3a1553f98363abb2b25cac9a3/aiohttp-3.9.3-cp311-cp311-macosx_11_0_arm64.whl.metadata
  Using cached aiohttp-3.9.3-cp311-cp311-macosx_11_0_arm64.whl.metadata (7.4 kB)
Collecting aiosignal==1.3.1 (from -r requirements.txt (line 2))
```

6. Run `python3 main.py`. This is the result. If you go to the http link and append /docs it will take you to the API documentation.

```
(.venv) (base) vincentcarrancho@Vincent-MBP Backend % python3 main.py
INFO: Will watch for changes in these directories: ['/Users/vincentcarrancho/Desktop/Cap2-Repos/Backend']
INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
INFO: Started reloader process [29994] using WatchFiles
INFO: Started server process [30007]
INFO: Waiting for application startup.
INFO: Application startup complete.
```

7. The backend has now been installed.

KEYWORDS: OS.environment, Python, FastAPI, Ports, Github Branches