

Installation Guide

“Giving a New Power to the Discussion” Project
CITS3200 Team 2
Semester 2, 2022
University of Western Australia

Software Requirements

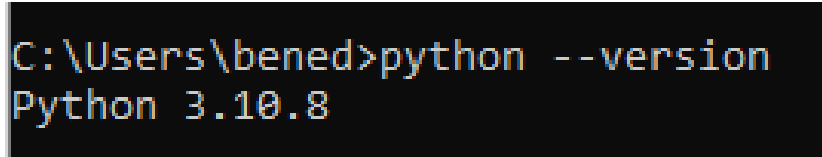
For this website the backend has been created using flask, a Python framework. If you don't have Python 3 installed on your computer you can download it from [here](#). Choose the appropriate download for your operating system.

Local Installation

To check that python has been installed:

Windows:

- Open command prompt
- Type 'python - - version'



```
C:\Users\bened>python --version
Python 3.10.8
```

- The Python version will display. If there is no python version then you will need to install Python.

MacOS / Linux

- Open the terminal application
- Type 'python -V'
- The python version will be displayed there.

The other software used is Vue.js a Javascript framework that will be running the frontend of the website. To download Vue node.js framework is needed. Download [here](#).

To test that node.js is installed:

Windows / MacOS / Linux:

- Open Command Prompt, powershell or something similar
- Type 'node -v'

```
C:\Users\bened>node -v
v16.17.0
```

- The version number will be returned if successfully installed

```
C:\Users\bened>npm -v
8.15.0
```

- Type 'npm -v' To check npm which is used to download vue

Starting the website

First: Open command line editor and go the the directory where the website files are stored

- Type 'cd <path>'
 - <path> being the file path to the CITS3200-TAWC-New-Power-Project file

```
C:\Users\bened>cd "C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project>"
C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project>$
```

Second: Creating the backend

- Create the venv
- Type 'cd backend' then follow the initial set up

Initial Setup

Linux

```
python3 -m venv venv
source venv/bin/activate
pip install -r requirements.txt
```

Windows

```
python -m venv venv
venv/Scripts/activate
pip install -r requirements.txt
```

If you get an error saying that running scripts is disabled on this system, run the following then try again

```
$ Set-ExecutionPolicy Unrestricted -Scope Process
```

- This will create a virtual environment, activate it and then download the necessary requirements to run the backend.

Third: Initialise the database

- To have posts and comments on the website the database needs to be initialised. Once initialised the posts and users will appear on the website.

Both - DB Initialisation

Linux & probably OSX

```
python3 -m populate_db
```

Windows

```
python -m populate_db.py
```

We had an issue on windows where `python3 -m populate_db` would use the global interpreter rather than the virtual environment. Not sure if anyone has verified everything works on Mac yet.

Fourth: Activating the backend

- Run 'flask run' in the backend after the previous steps have been done. This will start up a development server that will run the backend

Using the Virtual Environment

Once the virtual environment is up (`source venv/bin/activate` or `venv/Scripts/activate`), you can run code in several ways.

1. `flask run` once the app is created to run it.
2. Set vscode (or your IDE) to the venv interpreter to run your code there.
3. Run a file with the venv: `python3 -m <file>`

The backend server is running and ready to go.

The second part of starting the website is activating the frontend, this is what is displayed to the user.

Fifth: Open a new command line editor and again go into the same path as earlier

- Type 'cd <path>'

```
C:\Users\bened>cd "C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project>"
C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project>$
```

Sixth: Enter the front end and initialise the frontend

- Type 'cd frontend' this will take you into the frontend folder
- When in the frontend type 'npm install'. This will install the necessary files for the front end to run.

```
C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project\frontend>npm install
[ ] \ reify:@esbuild/android-arm: timing reifyNode:node_modules/@esbuild/linux
C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project\frontend>npm install
up to date, audited 264 packages in 1s
45 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
```

- Once the dependencies are downloaded run 'npm run dev'. This will start a development server that will run the front end

```
C:\Users\bened\Desktop\Uni\Year 3 Sem 2\Professional Computing\Project\Project-Git\CITS3200-TAWC-New-Power-Project\frontend>npm run dev
> frontend@0.0.0 dev
> vite
Port 5001 is in use, trying another one...
VITE v3.1.3 ready in 1107 ms
  Local:   http://127.0.0.1:5002/
  Network: use --host to expose
```

Once both servers are running you will be able to access the website using the url [“http://localhost:5001/”](http://localhost:5001/)

The servers are running and the website is usable. For using the website please refer to the User Manual.

Deployment

Please see the main README.md for instructions on how to deploy to a linux (or other) server.