2.Dialogue platform installation

> **Demo Environment**

Development boards：Jetson nano

SD(TF) card：64G

```
It is recommended to run the 4B and below parameter models
```

Open WebUI is an open source project that aims to provide a simple and easy-to-use user interface (UI) for managing and monitoring open source software and services.

```
When using Open WebUI, there is a high probability that the dialogue will become
unresponsive or timeout. You can try restarting Open WebUI or using the Ollama
tool to run the model!
```

Environmental requirements

Install Open WebUI on the host and Conda: Node.js >= 20.10, Python = 3.11:

Environment construction method	Difficulty Level
Host	High
Conda	Middle
Docker	Low

Tutorial demonstrating how to install Open WebUI with Docker.

Docker Build

Official installa Docker

If Docker is not installed, you can use the script to install Docker in one click.

```
The Jetson system image we provide has Docker installed, so you don't need to
install it yourself.
```

- Input following command to update local package lists

```
sudo apt update
```

- Input following command to upgrade installed packages

```
sudo apt upgrade
```

- Input following command to download and run the script

Download the get-docker.sh file and save it in the current directory.

```
sudo apt install curl
```

```
curl -fsSL https://get.docker.com -o get-docker.sh
```

Run the get-docker.sh script file with sudo privileges.

```
sudo sh get-docker.sh
```

Install Docker by Alibaba Cloud

If you cannot install it yourself, please use the system by we provided.

- Input following command to update local package lists

```
sudo apt update
```

- Input following command to install the prerequisite software

```
sudo apt install apt-transport-https ca-certificates curl gnupg2 lsb-release
software-properties-common
```

- Add the GPG key of the software repository

```
curl -fsSL https://mirrors.aliyun.com/docker-ce/linux/ubuntu/gpg | sudo gpg --
dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
```

- Add Alibaba Cloud mirror software source

```
echo "deb [arch=arm64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]
https://mirrors.aliyun.com/docker-ce/linux/ubuntu bionic stable" | sudo tee
/etc/apt/sources.list.d/docker.list > /dev/null
```
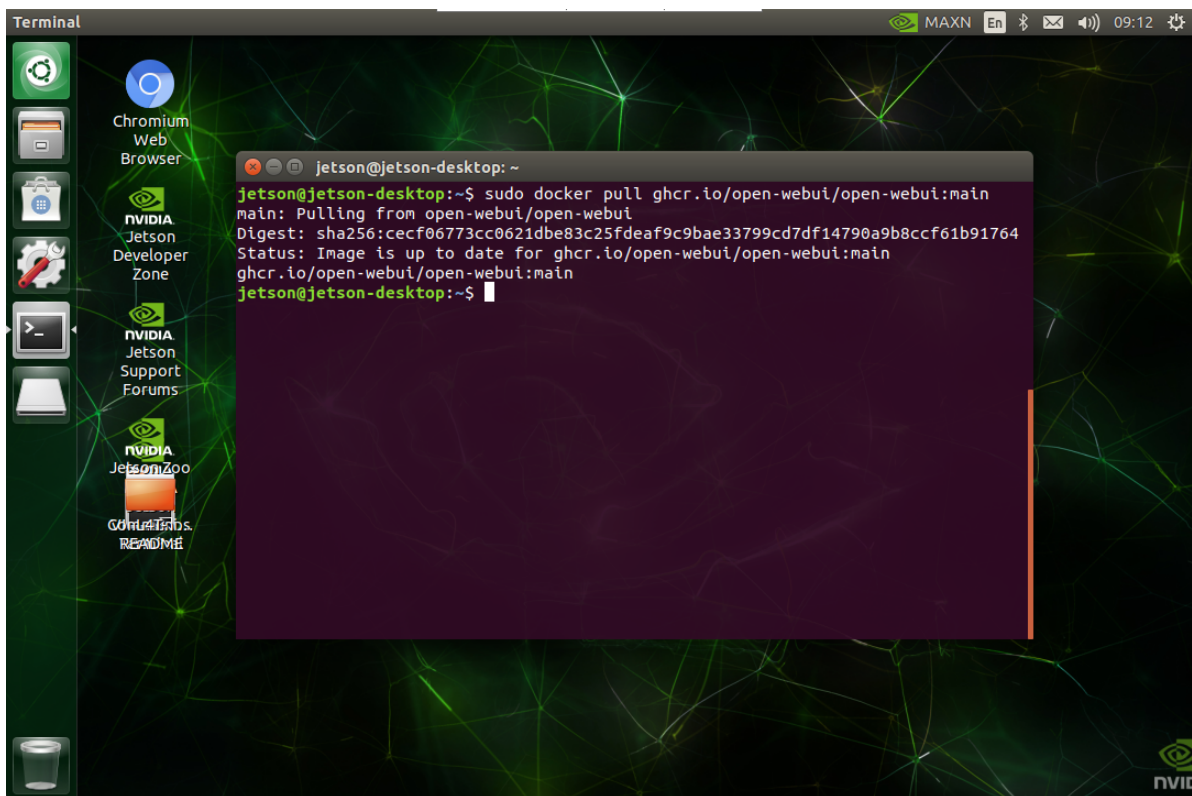
- Input following command to install Docker

```
sudo apt update
sudo apt install docker-ce docker-ce-cli containerd.io docker-compose-plugin
```

Install Open WebUI

For systems that have Docker installed, you can directly enter the following command in the terminal:

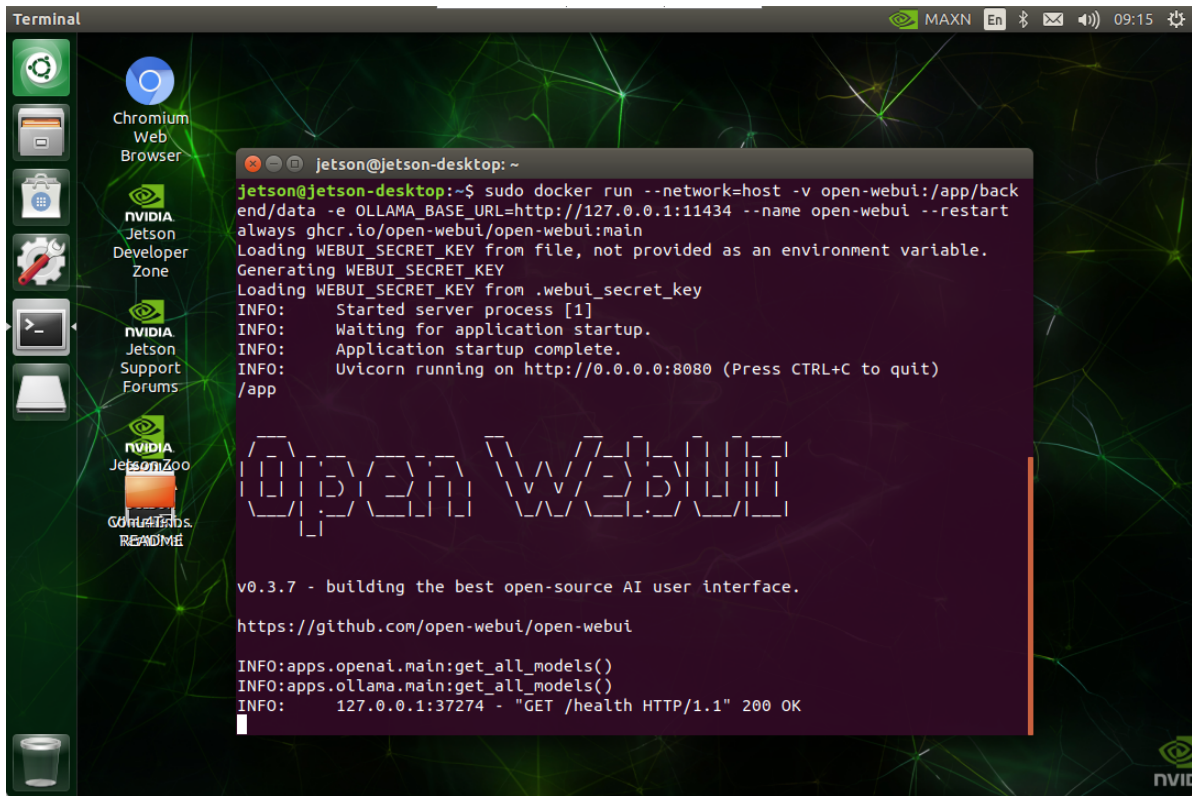The picture shows the result of the installation.

```
sudo docker pull ghcr.io/open-webui/open-webui:main
```


Run Open WebUI

Input following command to to start Docker:

```
sudo docker run --network=host -v open-webui:/app/backend/data -e
OLLAMA_BASE_URL=http://127.0.0.1:11434 --name open-webui --restart always
ghcr.io/open-webui/open-webui:main
```

After successful startup, enter the following URL in the browser to access.

```
http://localhost:8080/
```

Administrator account

For the first time use, you need to register an account yourself. This account is an administrator account, and the information can be filled in as required!
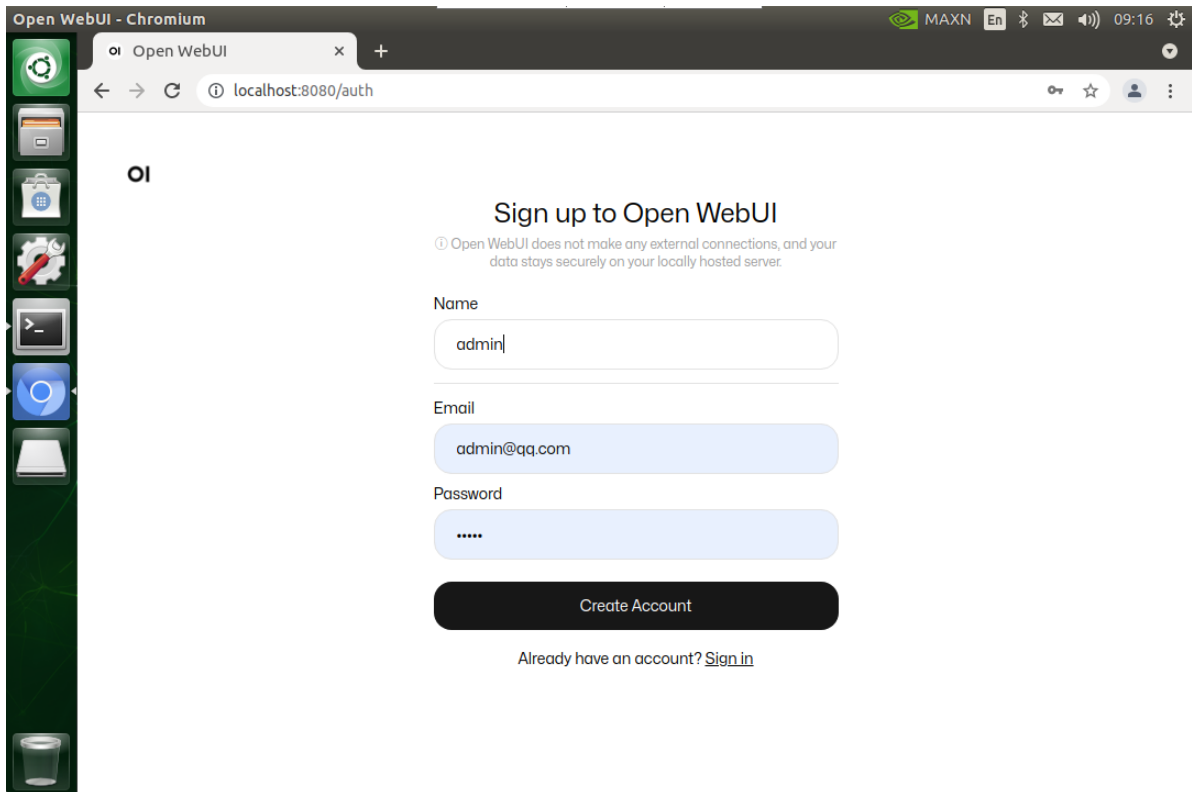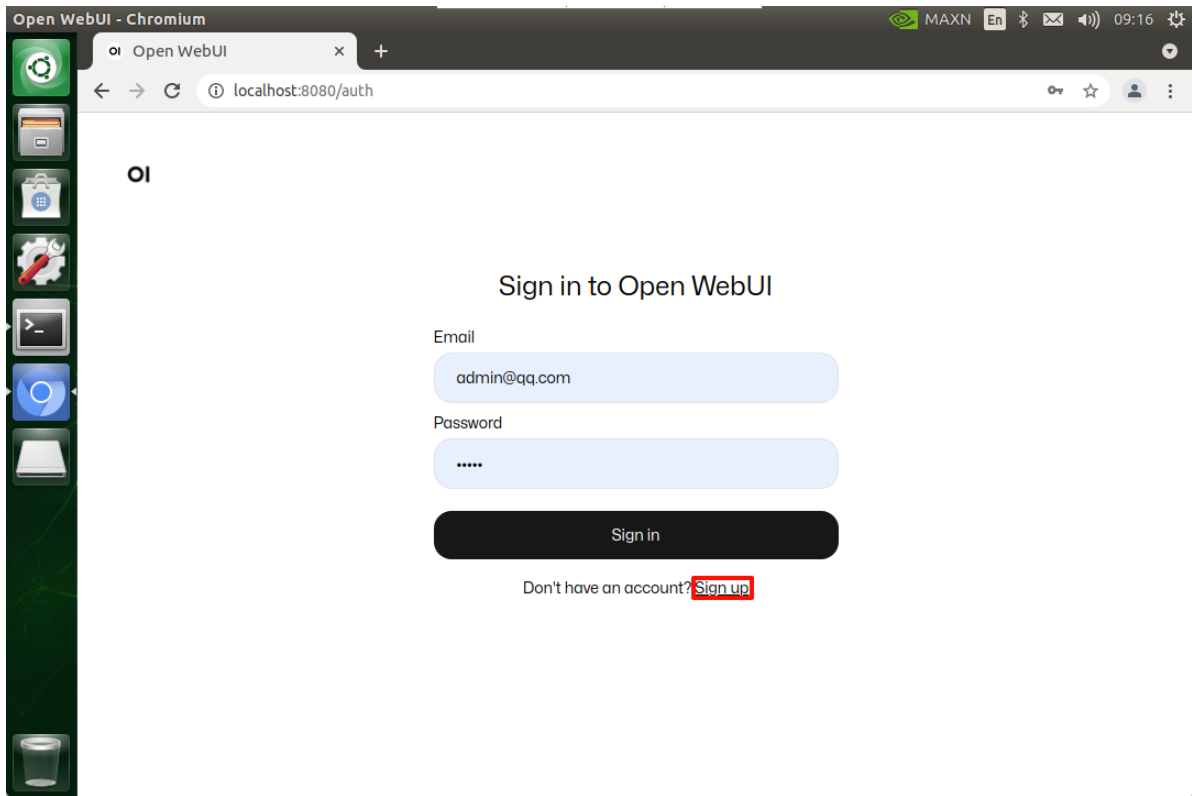
```
Since all the contents of our mirror have been set up and tested, users can
directly log in with our registered account:
Username: admin
Email: admin@qq.com
Password: admin
```
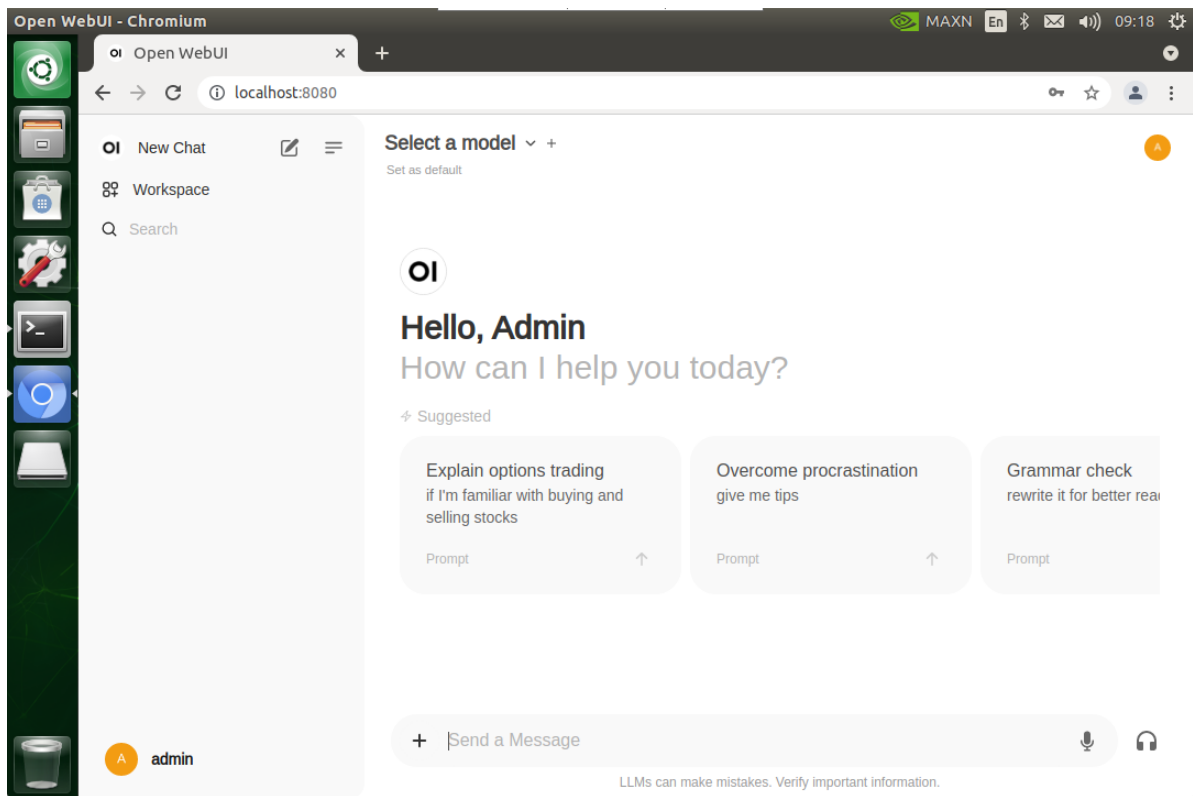
Register and log in

Since we have already registered: admin account, just log in directly!
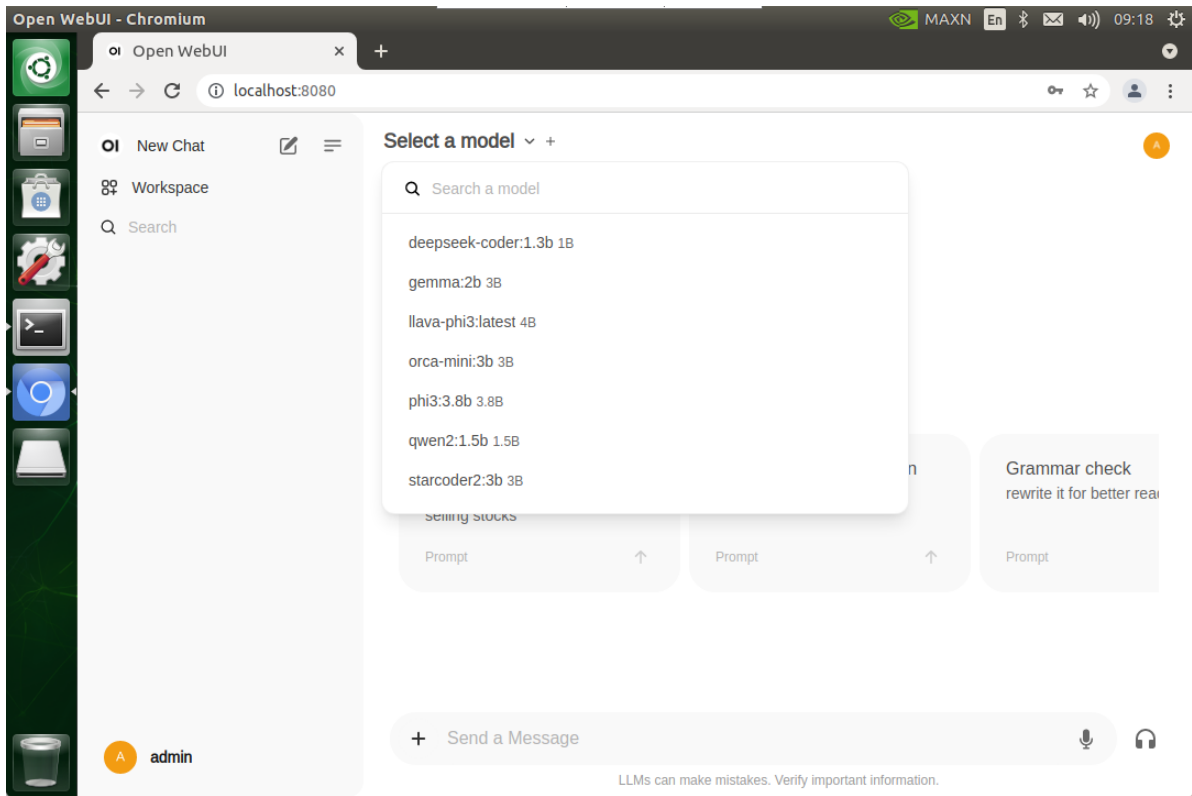
User interface

Model Dialogue

Using Open WebUI for conversations will be slower than using the Ollama tool directly, and may even result in a timeout service connection failure. This is related to the memory of Jetson Nano and cannot be avoided!

```
You can switch to other Linux environments to build Ollama tools and Open WebUI
tools for dialogue
```
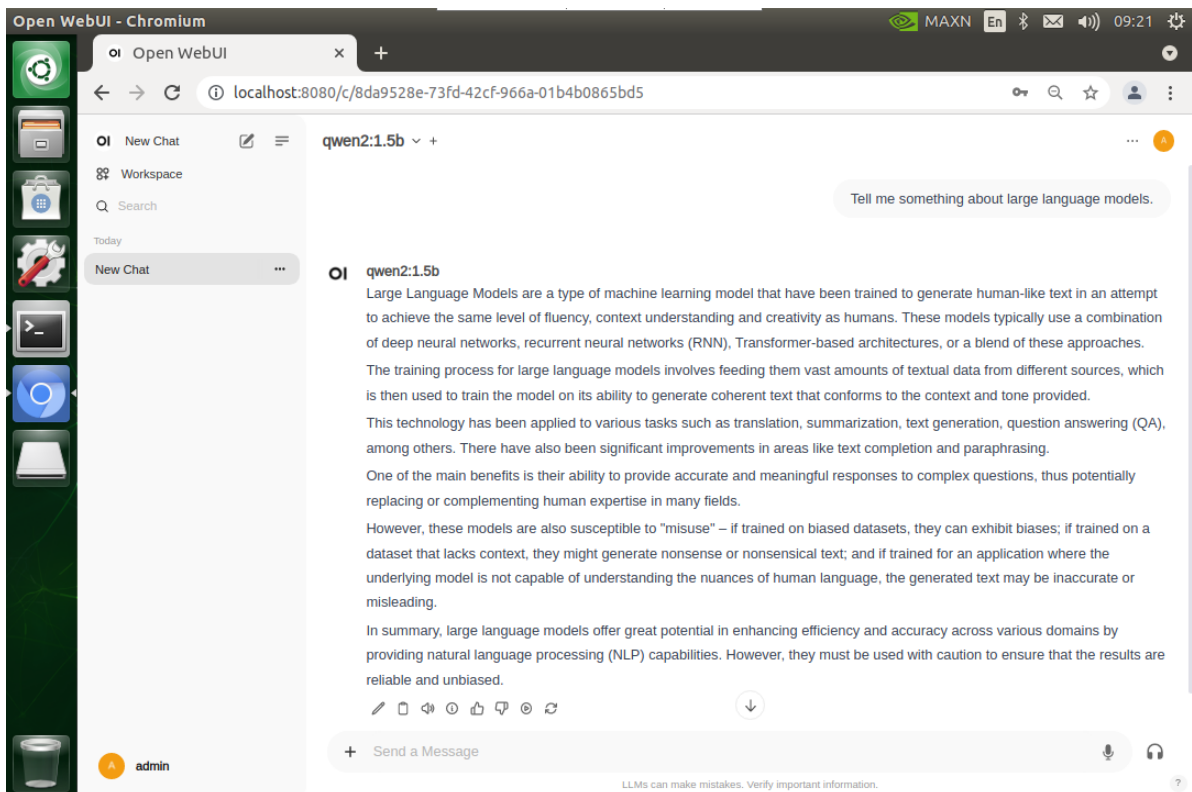
Switching models

Click `Select a model` to select the specified model dialog.

```
Models pulled using Ollama will be automatically added to the Open WebUI model
options, and the new model will appear when you refresh the web page.
```

Demo: Qwen2

Tell me something about large language models.

FAQ

Close Open WebUI

Close the automatically started Open WebUI

- Input following command to view running Docker

```
docker ps
```

- Input following command to close Docker

```
docker stop [CONTAINER ID]  # Eg docker stop 5f42ee9cf784
```

- Input following command to view stopped containers

```
docker ps -a
```

- Input following command to clean up stopped containers

```
docker rm [CONTAINER ID]    # Eg docker rm 5f42ee9cf784
```

- Input following command to clean up stopped containers

```
docker container prune
```

Common Mistakes

Unable to start Open WebUI

- docker: Error response from daemon: Conflict. The container name "/open-webui" is already in use by container "cfc05c84f8e38b290337e7178c76fd1c49076f94b11ed3d49d9448be72b7f20f". You have to remove (or rename) that container to be able to reuse that name.

Solution: Close Open WebUI and restart it.

Service connection timeout

- Open WebUI: Server Connection Error

Close Open WebUI and restart it, then ask the question again or run the model with the Ollama tool to ask the question.