

Open WebUI

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Demo Environment

Development board: Jetson Orin series motherboard

SSD: 128G

Tutorial Scope

Motherboard Model	Supported
Jetson Orin NX 16GB	√
Jetson Orin NX 8GB	√
Jetson Orin Nano 8GB	√
Jetson Orin Nano 4GB	√

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 be unresponsive or timeout. You can try restarting Open webUI or using the ollama tool to run the model!

1. Environmental requirements

Host and Conda installation of Open WebUI: Node.js >= 20.10, Python = 3.11:

Environment construction method	Difficulty (relatively)
Host	High
Conda	Medium
Docker	Low

Tutorial demonstrates Docker installation of Open WebUI.

2. Docker construction

2.1. Official installation of Docker

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

- Update local package lists

```
sudo apt update
```

- Upgrading installed packages

```
sudo apt upgrade
```

- 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
```

2.2. Add access permissions

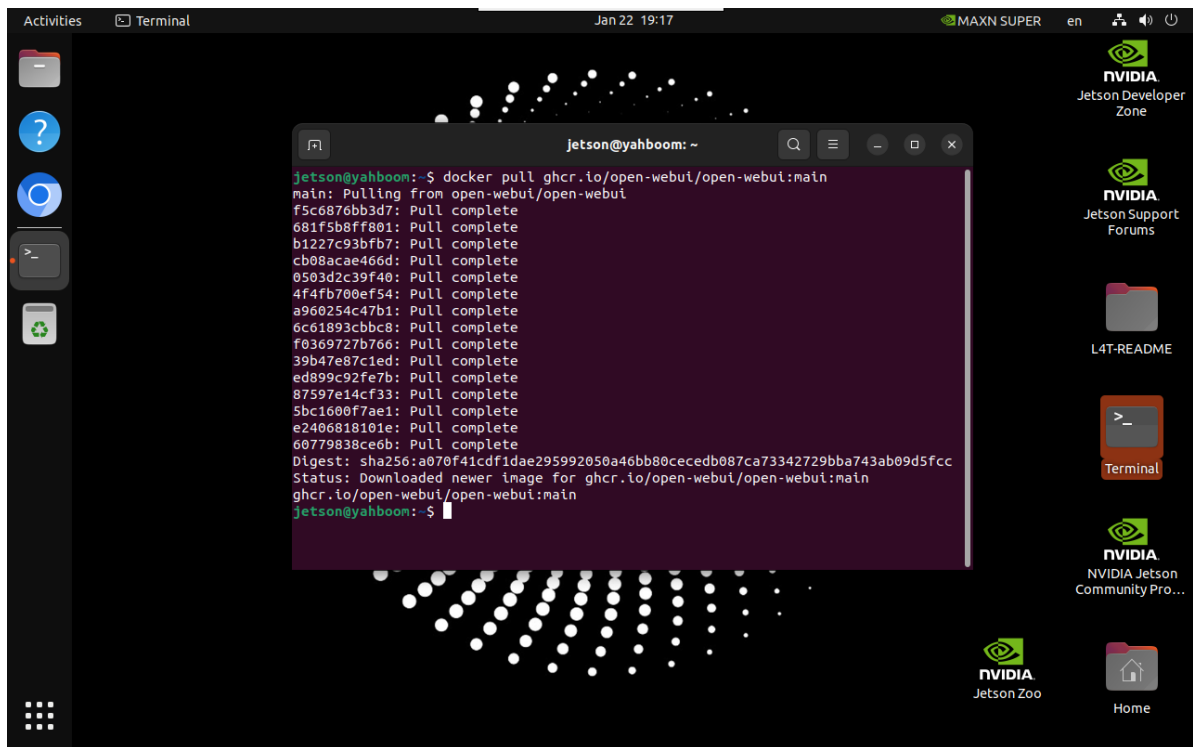
Add system current user access rights to Docker daemon: You can use Docker commands without using sudo command

```
sudo usermod -aG docker $USER  
newgrp docker
```

3. Open WebUI installation

For systems with Docker installed, you can directly enter the following command in the terminal:
The image is the result of the pull

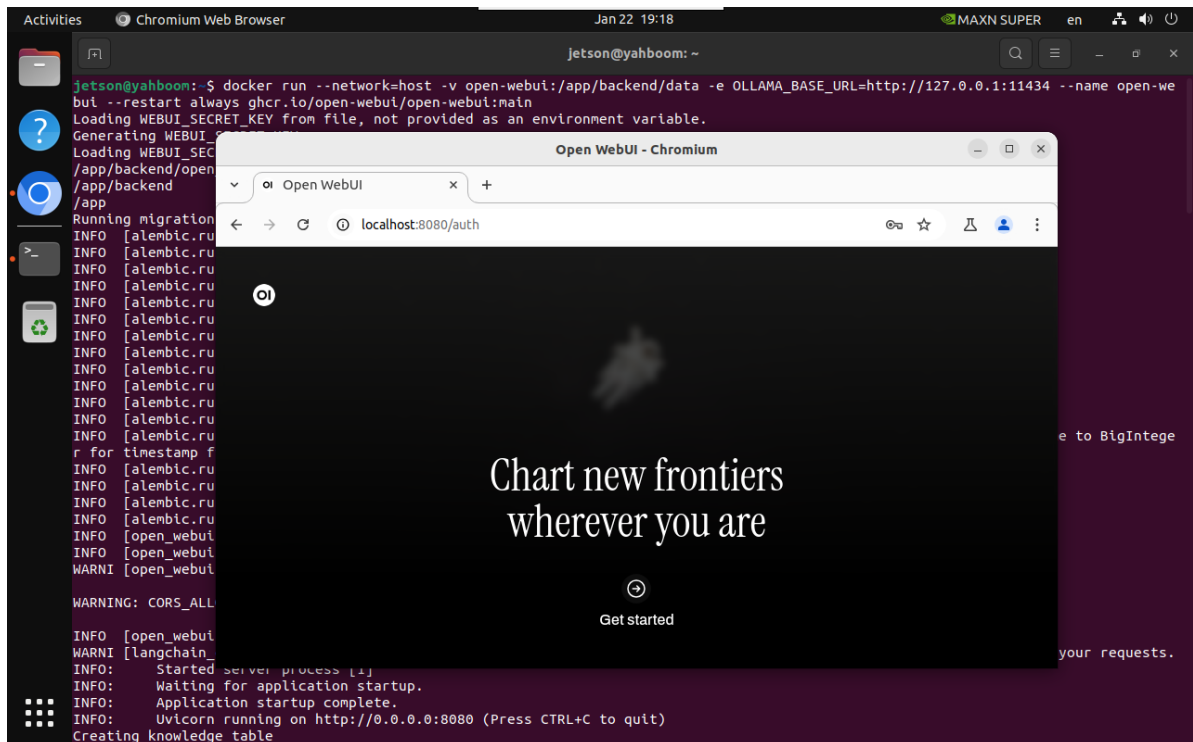
```
docker pull ghcr.io/open-webui/open-webui:main
```



4. Open WebUI and run

Enter the following command in the terminal to start the specified Docker:

```
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, use the following URL to access the browser:

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

The same LAN can use the motherboard IP:8080 to access:

Assuming the motherboard IP: 192.168.2.105, we can access it through 192.168.2.105:8080

4.1. Administrator account

You need to register an account for the first time. This account is an administrator account. You can fill in the information as required!

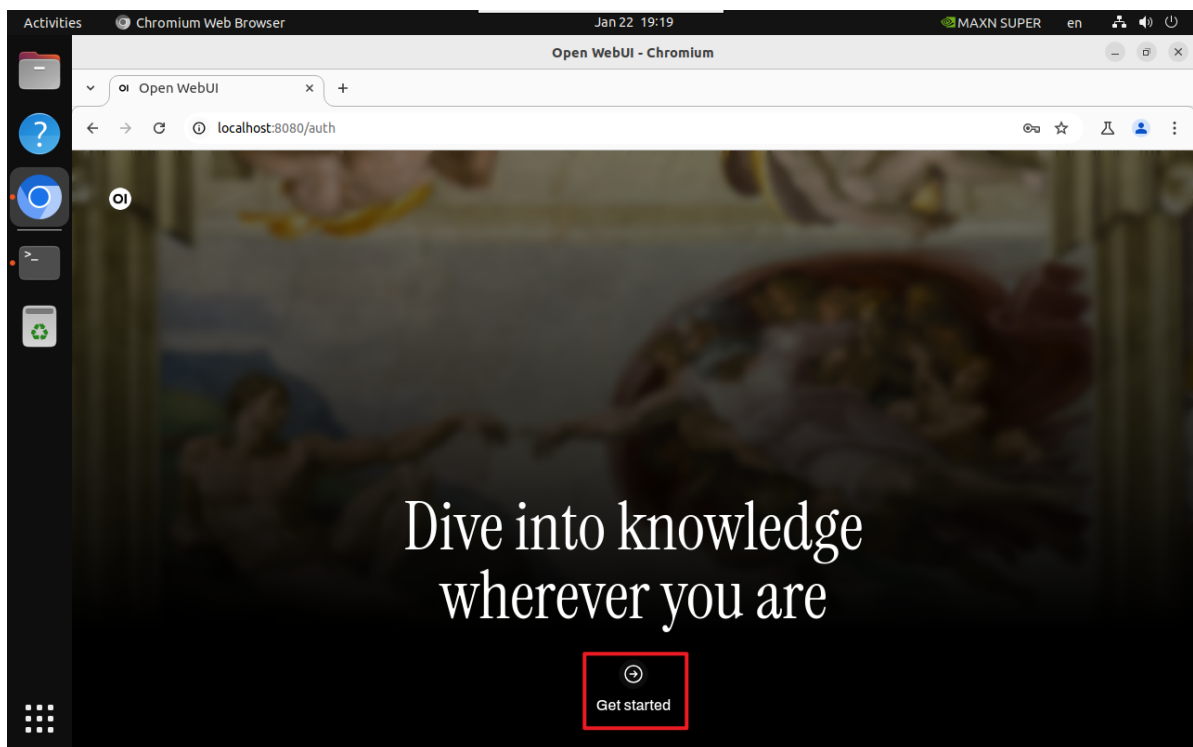
Since all the contents of our mirror have been set up and tested, users can directly log in with our registered account:

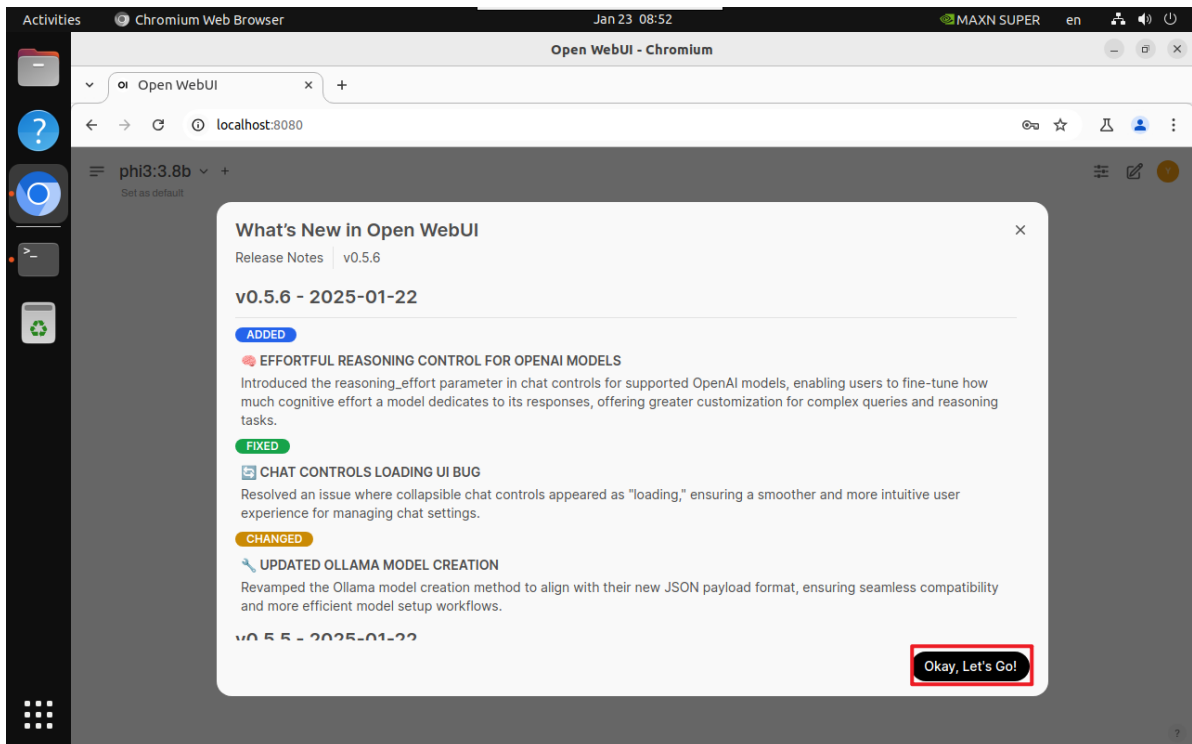
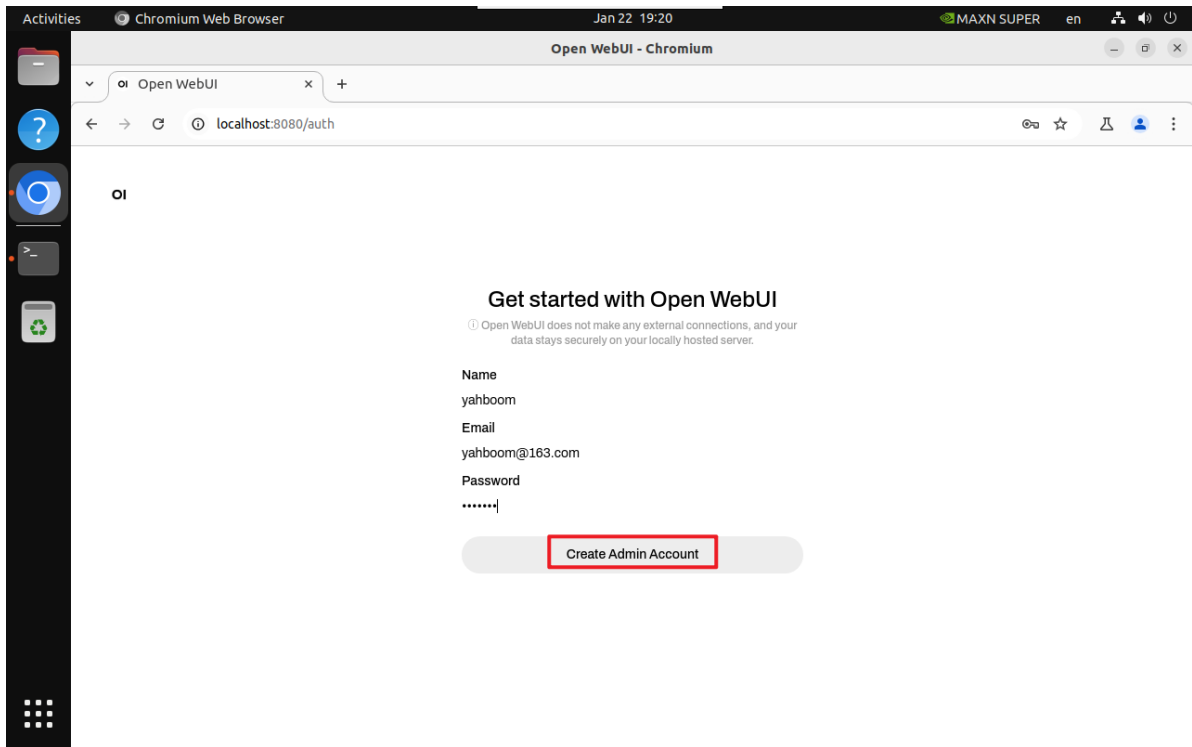
Username: yahboom

Email: yahboom@163.com

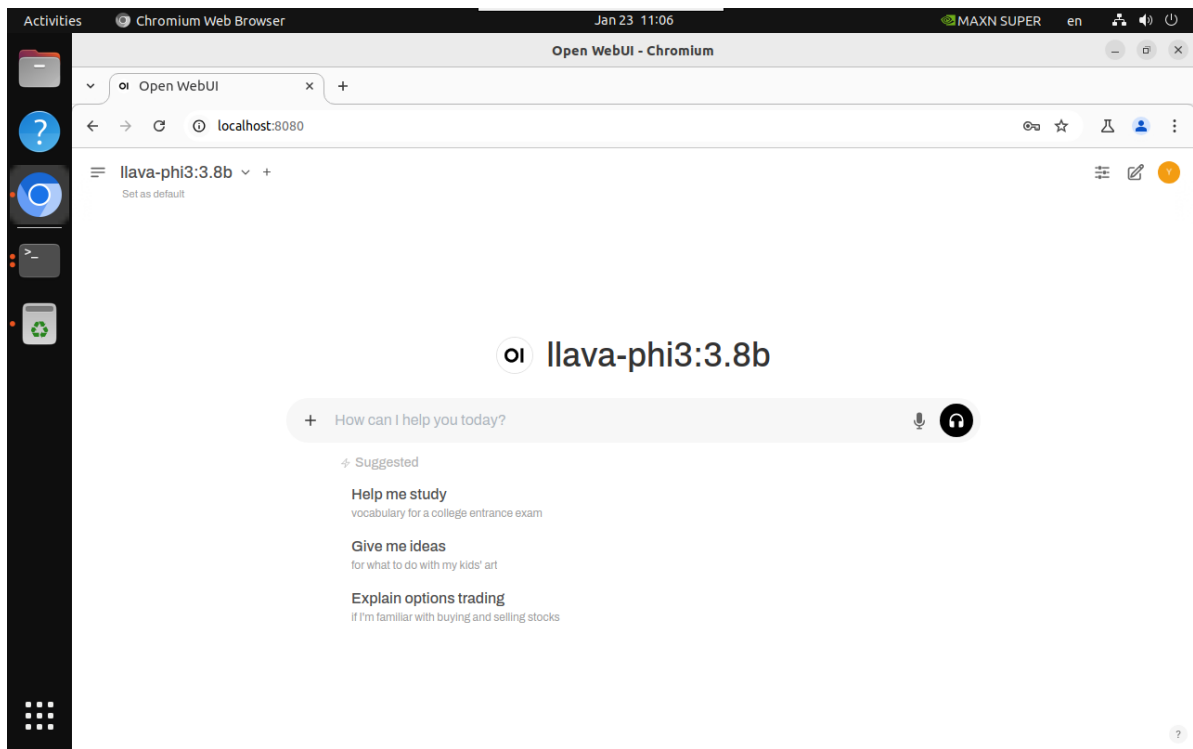
Password: yahboom

4.2. Register and log in





4.3 User Interface



5. Model dialogue

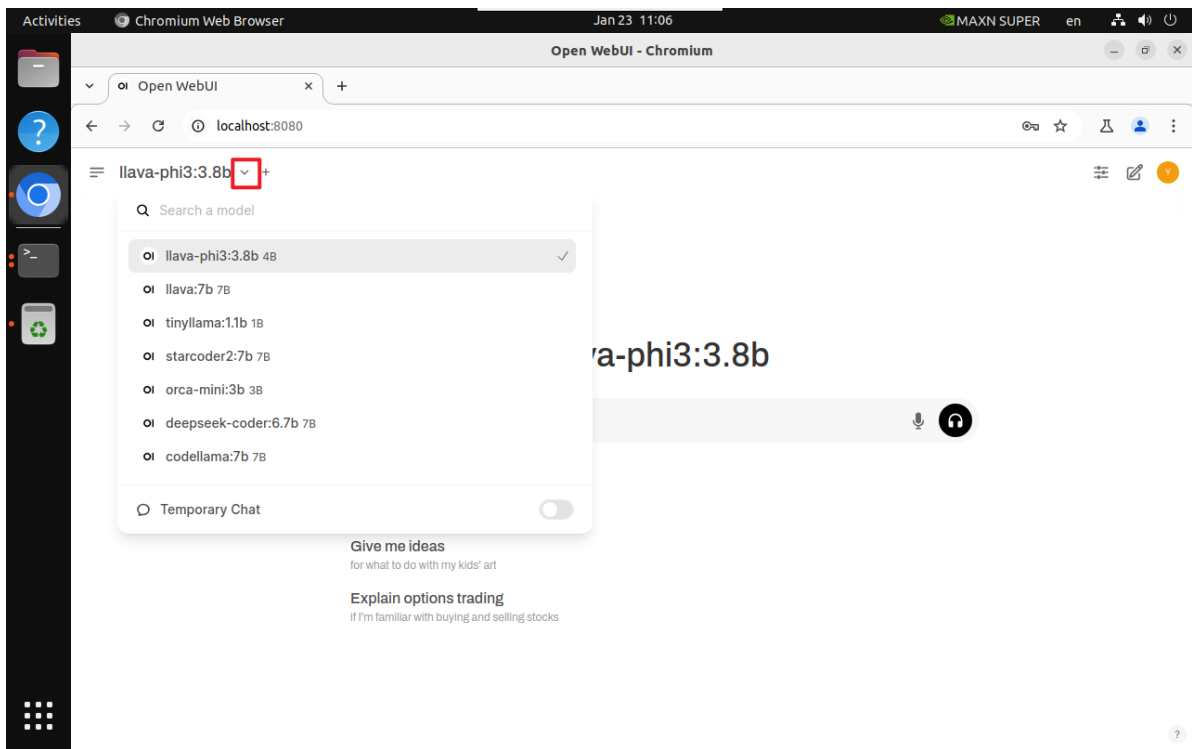
Using Open WebUI for dialogue will be slower than using the Ollama tool directly, and may even cause timeout service connection failure. This is related to the memory of the Jetson motherboard and cannot be avoided!

Users with ideas can switch to other Linux environments to build the ollama tool and Open webUI tool for dialogue

5.1. Switch model

Click `Select a model` to select a specific model for dialogue.

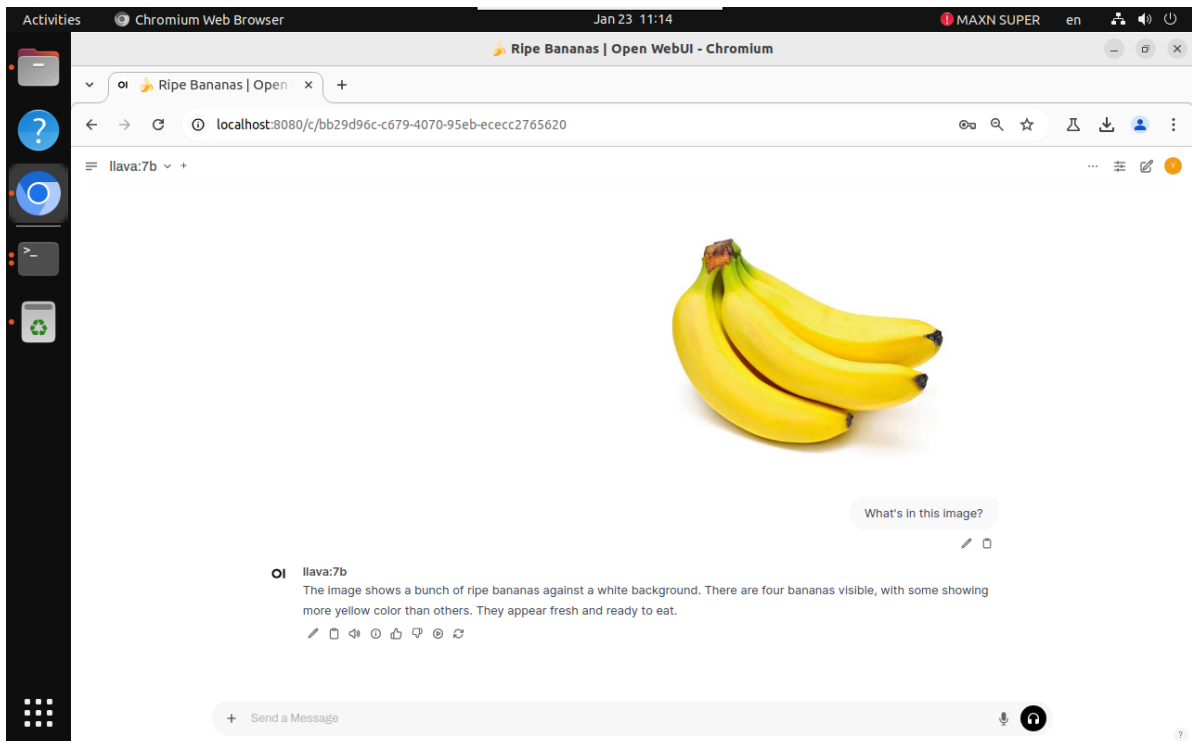
The model pulled by ollama will be automatically added to the Open webUI model option. Refresh the web page and the new model will appear!



5.2. Demonstration: LLaVA

The LLaVA case demonstrated requires 8G or even more than 8G to run. Users can use other cases to test the Open WebUI dialogue function!

what's in this image?



6. Common Problems

6.1. Close Open WebUI

Close the automatically started Open WebUI.

- View the running Docker

```
docker ps
```

- Close the running Docker

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

- View the stopped container

```
docker ps -a
```

- Clean up the stopped container

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

Clean up all stopped containers:

```
docker container prune
```

6.2. Common Errors

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 once and restart!

Service connection timeout

- Open WebUI: Server Connection Error

Close Open WebUI once and restart, then ask again or run the model with the Ollama tool to ask questions!