Setting up OpenWebUI and Ollama using Docker

Prerequisites

1. A system with Docker installed

Step 1: Install Ollama

1. Open a terminal window.

2. Run the following command to install Ollama:

```
curl https://ollama.ai/install.sh | sh
```

3. Verify the installation by running:

```
ollama --version
```

Step 2: Pull a Language Model

Pull a language model (e.g., Llama 3) using Ollama:

```
ollama pull llama3
```

Step 4: Set Up OpenWebUI

1. Open a new terminal window.

2. Run the OpenWebUI Docker container:

```
docker run -d --name openwebui \
  -p 3000:8080 \
  -e OLLAMA_API_BASE_URL=http://host.docker.internal:11434/api \
  --add-host host.docker.internal:host-gateway \
  ghcr.io/open-webui/open-webui:main
```

This command does the following:

1. Runs the container in detached mode (`-d`)

2. Names the container “openwebui” (`–name openwebui`)

3. Maps port 3000 on the host to port 8080 in the container (`-p 3000:8080`)

4. Sets the Ollama API base URL environment variable (`-e OLLAMA_API_BASE_URL=…`)

5. Adds a host entry to allow the container to communicate with the host machine (`–add-host …`)

6. Uses the OpenWebUI Docker image (`ghcr.io/open-webui/open-webui:main`)

Step 5: Access OpenWebUI

1. Open a web browser and navigate to:

```
http://localhost:3000
```

Step 6: Configure OpenWebUI

1. In the OpenWebUI interface, first create an account.

2. Login to the account created.

Step 7: Test the Setup

1. Start a new chat in OpenWebUI.

2. Select the language model you pulled earlier (e.g., Llama 3).

3. Send a test message to verify that everything is working correctly.

Additional Docker Commands

- To stop the OpenWebUI container:

```
docker stop openwebui
```

- To start the OpenWebUI container again:

```
docker start openwebui
```

- To remove the OpenWebUI container:

```
docker rm openwebui
```

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