How to Run Microsoft Magentic-UI with Ollama and Docker

■ Prerequisites

Make sure the following are installed:
1. Docker: https://www.docker.com/products/docker-desktop/
2. Ollama: https://ollama.com/download (Make sure a model like `llama3` is pulled and running)
3. Node.js (v18+ recommended): https://nodejs.org/
4. Git: https://git-scm.com/

■ 1. Clone the Repository

```
git clone https://github.com/microsoft/magentic-ui.git
cd magentic-ui
```

■ 2. Start the Backend with Docker

Make sure Ollama is running locally and you have a model running:

```
ollama run llama3
```

Then build and start the backend Docker container:

```
docker compose -f docker/docker-compose.ollama.yaml up --build
```

This starts both the UI and the API backend with Ollama as the model provider.

■■ 3. Config is Pre-Wired for Ollama

The docker-compose file already sets:
    http://host.docker.internal:11434
as the OpenAI-compatible endpoint (used by Ollama on macOS/Windows).

■ 4. Access the UI

Once the containers are running, visit:

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

■ Optional: Manual Start (Non-Docker Dev)

Install dependencies:

```
npm install
```

Run backend manually:

```
cd packages/backend
OPENAI_API_KEY=ollama \
OPENAI_API_BASE_URL=http://localhost:11434 \
npm run dev
```

Run frontend manually:

```
cd packages/ui
npm run dev
```