

VS Code Operation Guide for Solaris Simulation Unit

1. Opening the Project

Root Folder: Open the following folder in VS Code: `/Users/mrmo/Documents/My Files/Riipen Project/PHASE 1.3/Solaris_Simulation_Unit`

This ensures both the backend (`main.py`) and frontend (`frontend/`) are visible in your explorer.

2. Setting Up Prerequisites (One-Time Setup)

Backend (Python)

Open a new terminal (`Terminal > New Terminal`) and run:

```
pip install -r requirements.txt
```

Frontend (Node.js)

Open a separate terminal, navigate to the frontend folder, and install dependencies:

```
cd frontend  
npm install
```

3. Starting the Localhost

You will need **two** separate terminal instances running side-by-side or in tabs.

Terminal 1: Backend

1. Ensure you are in the root folder (`Solaris_Simulation_Unit`).
2. Run the startup command:

```
python3 main.py
```

- **Success Indicator:** You will see "Uvicorn running on <http://0.0.0.0:8000>".

Terminal 2: Frontend

1. Navigate to the frontend folder:

```
cd frontend
```

2. Start the development server:

```
npm run dev
```

- **Success Indicator:** You will see "Local: <http://localhost:5173/>".

4. Accessing the App

- **Web Interface:** Open <http://localhost:5173> in your browser.
- **API Docs:** Open <http://localhost:8000/docs> to test the backend directly.

5. Stopping the Localhost

To stop the servers, go to the respective terminal for each process:

1. Click inside the terminal window.
2. Press **Ctrl + C** (Control key + C).
3. The process will terminate and return you to the command prompt.

REPEAT this for **both** the backend and frontend terminals to ensure everything is stopped.