Smart Indoor Gardening Ecosystem

Batch 3 (Group-4)

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Software Installations:

1. Update your Raspberry Pi

sudo apt-get update sudo apt-get upgrade

2. Install Python and pip if not already installed

sudo apt-get install python3 python3-pip

3. Install required Python packages

pip3 install RPi.GPIO

pip3 install pad4pi

pip3 install flask

pip3 install flask-cors

pip3 install requests

4. Create a project directory

mkdir smart_indoor_gardening cd smart_indoor_gardening

5. Create a static directory for web files

mkdir static

Project Setup:

1. Create the main Python file:

nano smart_indoor_gardening.py

- 2. Copy the code into this file.
- 3. Make the script executable:

mod + smart_indoor_gardening.py

Running the Project:

1. Start the system:

python3 smart indoor gardening.py

- 2. Access the web interface:
- 3. From the same Raspberry Pi: http://localhost:5000
- 4. From other devices on the network: http://[raspberry pi ip]:5000

To find your Raspberry Pi IP: hostname -I

Screenshots:

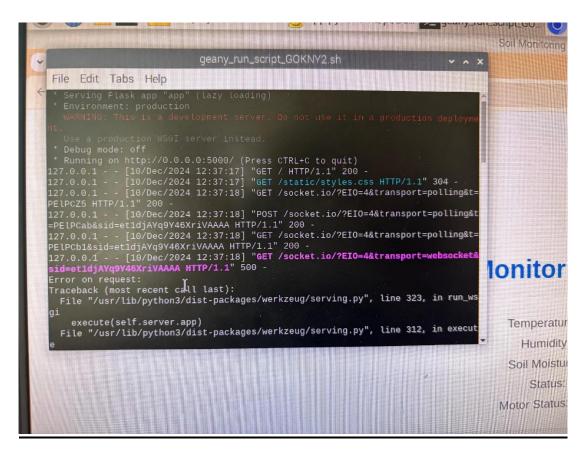


Fig. The Terminal

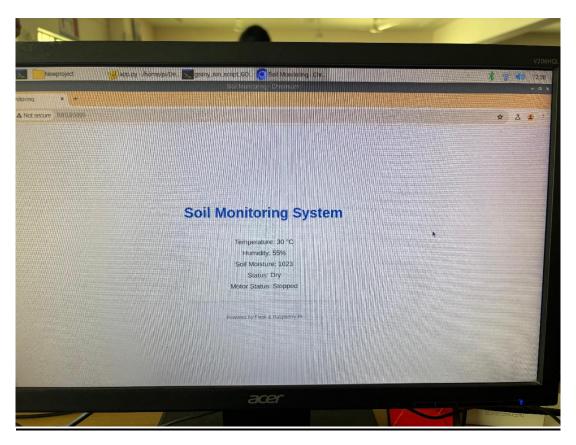


Fig. The webpage of the project