Water Management System

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 water_management_system cd water_management_system

 # 5. Create a static directory for web files mkdir static

Project Setup :

1. **Create the main Python file:** nano water_management_system.py
2. **Copy the code into this file.**
3. **Make the script executable:** mod + water_management_system.py

Running the Project :

1. **Start the system:** python3 water_management_system.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 :

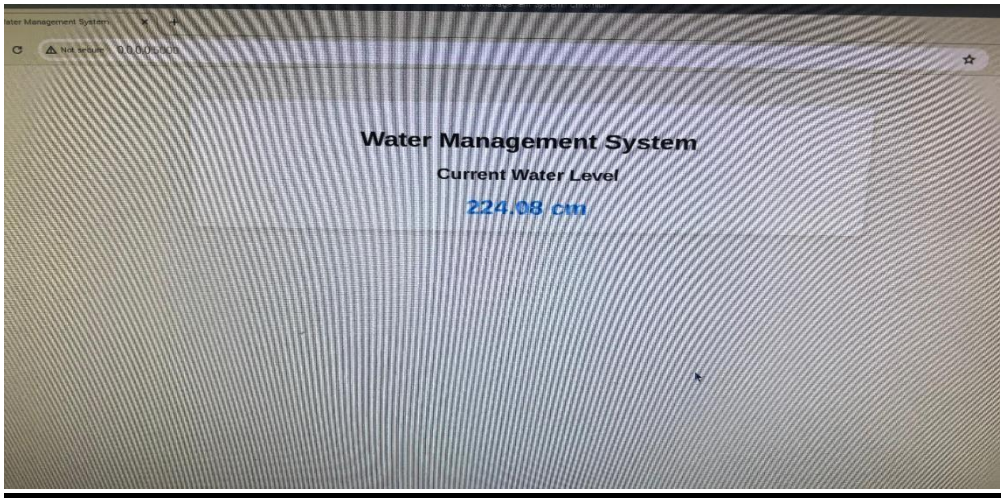

Fig. The Webpage of the Project

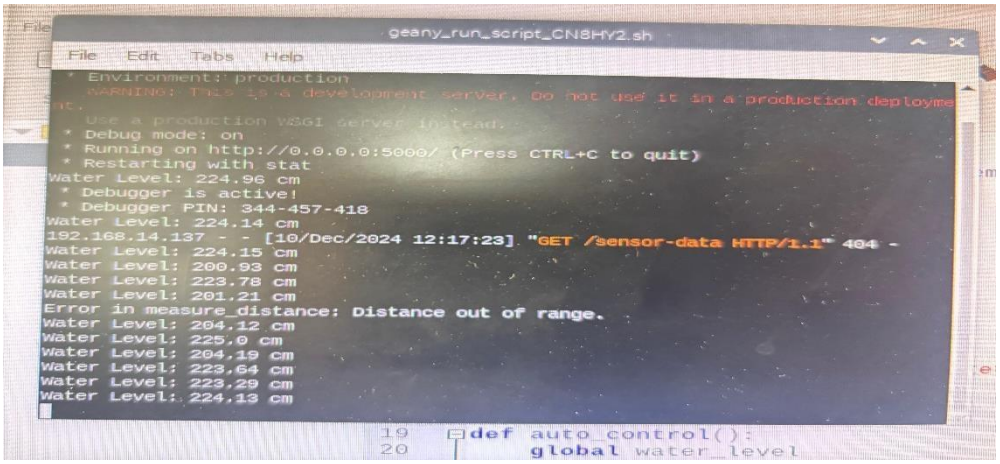

Fig. The Terminal Page of the Project