Smart Parking System

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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_parking

cd smart_parking

 # 5. Create a static directory for web files

mkdir static

Project Setup :

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

mod +x smart_parking.py

Running the Project :

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

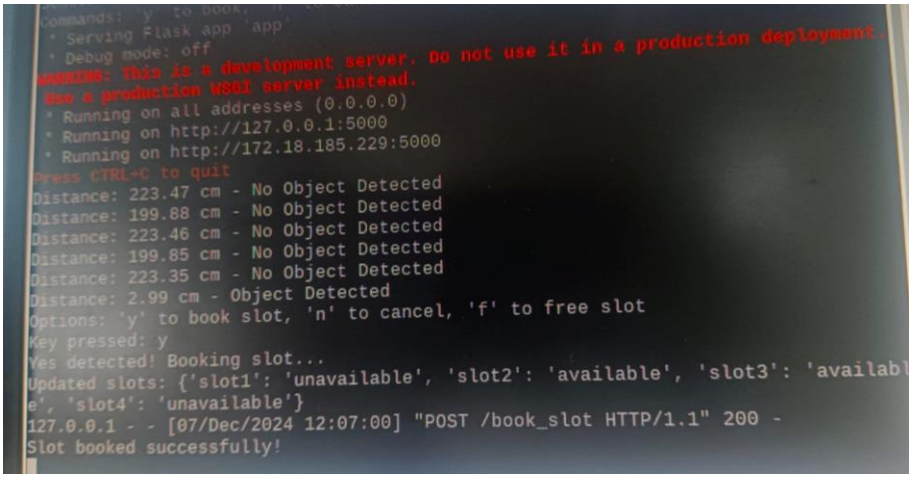

Fig. The slot booking Terminal

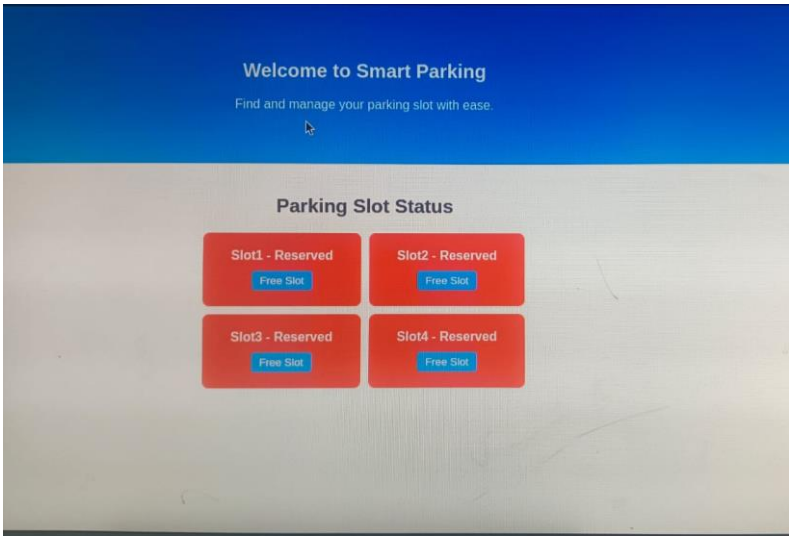

Fig. The webpage of the project