

Configuration Manual

MSc Research Project Cloud Computing

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Configuration Manual

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1 System Requirements

1.0.1 OS

- Code Running and Training :Windows 10
- Server : Ubuntu

2 Hardware Requirements

2.0.1 Code Running

- 64GB RaM
- 12 GB Grphics Card Nvidia 3060 RTx
- Intel Core i9 Processor

2.0.2 Server Running

- CPU : GB
- Storage :10 GB

3 Steps to Run:

3.0.1 Training Module

- Step 1: Login to Google Colab
- Step 2: Install the required Packages
- Step 3: Load the Dataset into the Google Drive
- Step 4: Execute the Parking Solution
- Step 5: Save the Pickle File in a Location and copy that location
- Step 6: Execute the ANPR code
- Step 7: Save the Pickle File of the ANPR and copy that location

4 Cloud Module

- Step 1: Download Postman
- Step 2: Copy the API location: https://api.postman.com/collections/12533933-f786a7d3-saccess_key=PMAT-01HH4K4WGVK2H89M2HYPYH1ZKW.
- Step 3: Open the Postman and Paste the above link in the import. And import the link.
- Step 4: The server details appears below the ANPR project file as : http://3. 254.156.131:5000/parking_detection
- Step 5: Click on Body tab
- Step 6: Two Key are there

4.0.1 Parking_img

Import the parking image here

- Number_plate_img: Import the Number plate image here
- Upload the ouputs from parking lot detection and ANPR (This images are in the finalcode file, in the test image floder)

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Figure 1: Postman Response System

- Step 7: Click on Submit
- Step 8: The results will be as below,
- {
- "EndTime":"2023-12-12 12:01:56",
- "Parking":"Parking",
- "StartTime": "2023-12-12 11:01:56",
- "VehicleNumber": "MH 02 HG 1234"
- }



Figure 2: Response of the API

5 References

- Postman Download: https://www.postman.com/
- API location: https://api.postman.com/collections/12533933-f786a7d3-5bf4-4db1-b72baccess_key=PMAT-01HH4K4WGVK2H89M2HYPYH1ZKW
- Dataset: https://public.roboflow.com/object-detection/pklot
- Google Drive: https://drive.google.com/drive/u/1/my-drive

References