

USER MANUAL

Dependencies

1. Python 3.6
2. OpenALPR
3. Python Tkinter
4. Subprocess
5. SQLite3
6. DateTime
7. Tesseract 4
8. OPENCV 4.0

Details

1. Login.py
 - a. Takes the login credentials and Unique License Key
 - b. On Successful login, following buttons are shown:
 - i. Business Setup: to setup the business ID
 - ii. Device ID: to setup various device details
 - iii. Continue with Device ID: starts the ALPR logic
 - c. On exit asks for confirmation
2. Lanch.py
 - a. The ALPR logic
 - b. Parses and processes through all the folders and files in the given input folder
 - c. Moves processed files to processed folder, enters the output into the database
 - d. Rename all the processed as Plate_Number.jpg
 - e. Moves unprocessed files to unprocessed folder, enters the output into the database
 - f. When no image is there to process it continuously pings all the device to checks for connectivity
 - g. On exit asks for confirmation
3. Bussiness.py
 - a. Takes Business ID, Country Code, Input folder, Unprocessed Folder, Processed Folder as input
 - b. Saves all the values into the database
 - c. On exit asks for confirmation
4. Device.py

- a. Takes Business ID, Device ID, Device IP as input
 - b. Saves all the values into the database
 - c. On exit asks for confirmation
5. DATABASE
- a. Business Table
SNo, Business ID, Country Code, Input Folder, Processed Folder, Unprocessed Folder
 - b. Device Table
SNo, Business ID, Device ID, Device IP
 - c. ALPR Table
SNo, Business ID, Device ID, Processing Time, Plate Number, Accuracy
 - d. Unprocessed Table
SNo, Business ID, Device ID, InTime, Output

Steps

1. For installing dependencies:
 - a. `sudo apt update && sudo apt upgrade -y`
 - b. `sudo chmod 777 setup.sh`
 - c. `./setup.sh`
2. To run the software:
 - a. `sudo schmod 777 run.sh`
 - b. insert aarohi as username and aarohi as password
 - c. press login
 - d. The click on "Business setup"
 - e. Enter the business id as "rohit"
 - f. Insert all the other values as per your wish and submit
 - g. Then click on "Device ID"
 - h. Enter business ID as "rohit"
 - i. Enter the device Id and device ip and submit
 - j. Then click on Continue with ALPR