Multi Gate Society Vehicle Management System

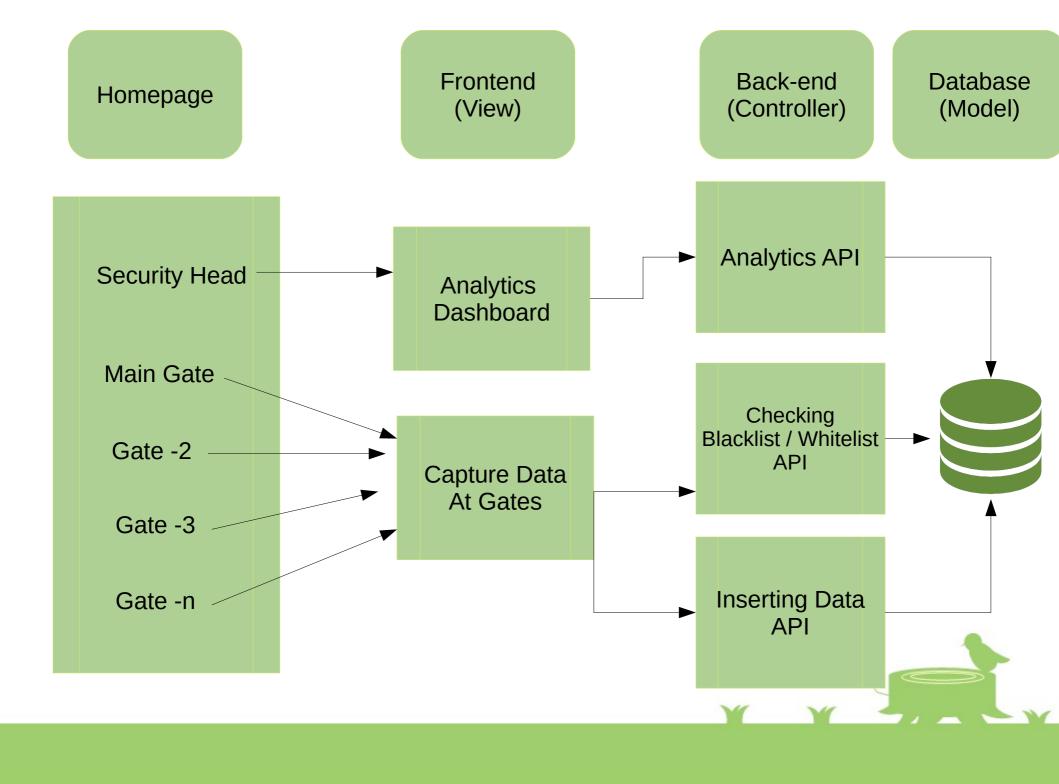
A Full stack App -Pankaj Kumar

Tech Stack

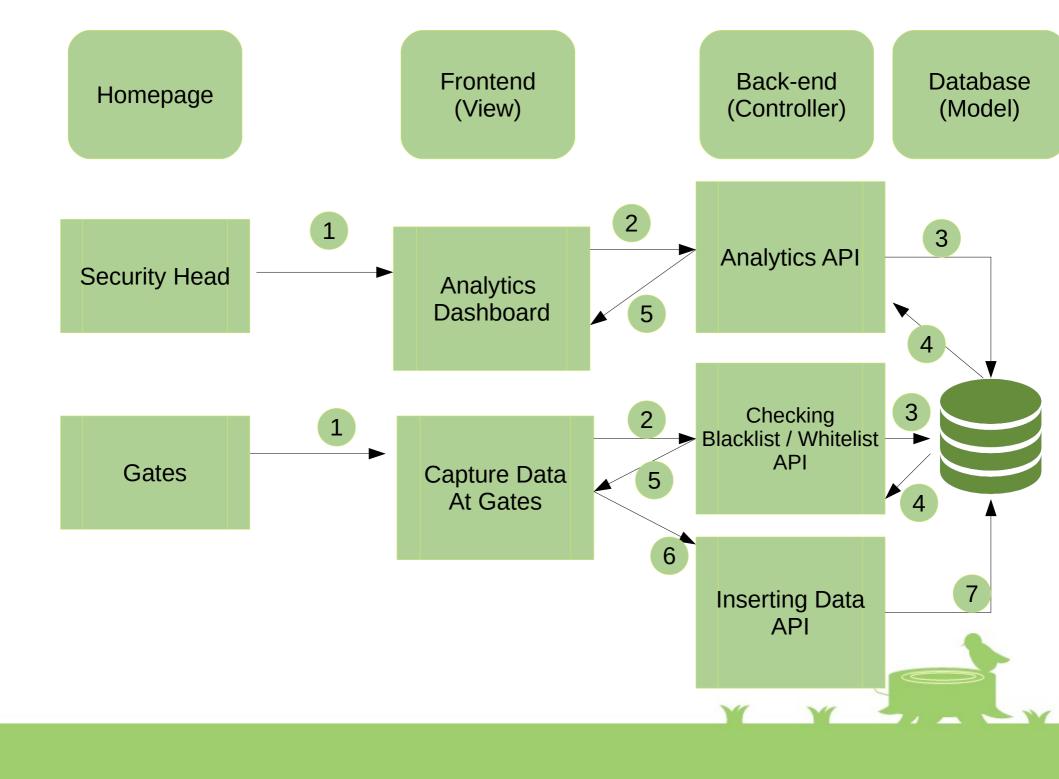
- Front End
 - HTML5, CSS3
 - Bootstrap, Jquery
- Back-end
 - Flask (Python)
 - Many other libraries (refer requirements.txt)
- Database
 - PostgreSQL



System Diagram



Flow of Data



Reproducing the App

Install

- Python 3
- All libraries listed in requirements.txt
- PostgreSQL 11
- Mozilla Firefox / Google Chrome

Save

- Database credentials in server.py at
 - Line 50, 77 and 127
- Email credentials in server.py at
 - Line 19

- Run server.py in terminal
- Open "http://localhost:5000" in web browser
- Select any gate to enter
- Allow browser to access web cam. This app uses live stream from web cam to simulate CCTV
- Click "Capture" when vehicle arrives. This will save a temporary copy of snapshot at "/images" in server.
- Enter "Vehicle Number" & "Vehicle Type" and then hit "Check"
- If vehicle is blacklisted Red banner will appear with "Exit" button

- If Whitelisted or new vehicle, a green banner appears with "Enter" button.
- "Enter" button will save all data (including image) in "VehicleRecords" table.
- Checking will happen with "listedVehicles" table

Database Schema

Table "public.vehiclerecords"									
Column	Type	Collation N	ullable [Default Storage	Stats	target	Description		
+		+	+	+	· 	-+			
vehicletype character varying(50) extended									
5	character varying(• , ,	i i	extended		İ			
vehicleimage	bytea			extended		•			
decision cl	haracter varying(2	20)	· ·	extended	•				
timestamp	timestamp with tir	ne zone	not n	ull now() plair	1	Ė			

		Table "public.list	tedvehicles'	ı	
Column	Type	•	•		Stats target Description
vehicleno cha			+ 	+ extended	+

An Effort by ...

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