# **Team Members**

1. Ziad Atef Ahmed ID:136

2. Taher Mohamed Ahmed ID:139

3. Omar Mohamed Ahmed ID: 205

4. Gieath Omar Saleh ID :207

## **Project Idea**

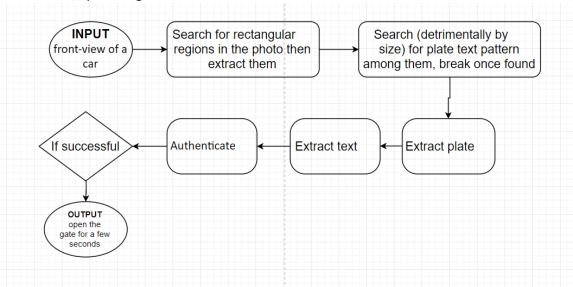
Gate access controller: Gate opens for specific cars based on their plate number.

#### **Constraints**

- 1. Plate only contains capital Latin alphabet letters or numbers.
- 2. Plate inner-text lies in the same region (same color, no boundaries etc.)

### **Flow**

- Input-picture is a front-view of a car.
- Output is a decision: open the gate if authenticated.
- (Necessary filtering and processing may be done between stages as needed)
- Receive a photo every few seconds
- Search for rectangular regions in the photo then extract them
- Search (detrimentally by size) for plate text pattern among them, break once found
- Extract plate
- Extract text
- Authenticate
- If successful, open the gate for a few seconds



## **Nonprimitive functions**

Till now there is no nonprimitive function is determined

## **Papers**

http://inf.ucv.ro/~ami/index.php/ami/article/viewFile/388/351

http://www.hep.upatras.gr/class/download/psi_epe_iko/16- RECOGNITION%200F%20VEHICLE%20NUMBER%20PLATE%20USING%20MATLAB.pdf http://ictactjournals.in/paper/UIVP_Vol_8_No_4_Paper_9_1786_1792.pdf		as.gr/class/download/psi_epe_iko/1 20VEHICLE%20NUMBER%20PLATE	
http://ictactjournals.in/paper/UIVP_Vol_8_No_4_Paper_9_1786_1792.pdf			
	http://ictactjournals.in	/paper/IJIVP Vol 8 No 4 Paper 9	<u>1786</u> <u>1792.pdf</u>