Real time License plate Recognizer using Raspberry pi. (PHASE 3)

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MAPPING OF FUNCTIONALITY TO WORKING

- detecting a vehicle using IR sensor.

```
if GPIO.input(sensor):        print "running recognition code“
```

- Capturing image of the number plate. Using pi cam

```
camera.capture(rawCapture, format="bgr")
image = rawCapture.array
```

- Validating the input using ml.
- Opening or closing the gate once validation is completes by rotating the motor.

```
if (result = “open”)
        {
                GPIO.output(Motor1A,GPIO.HIGH);
                time.sleep(20)
        }
else
        {
                //remain closed;
        }
```

RESULTS EXPECTED FROM EACH MODULES

- MODULE 1: setting up system to detect vehicle using sensor and capturing of image (number plate) using picam.

  expected : true when vehicle is detected and capture an image

- MODULE 2: writing a program to validate the number on the number plate and store the data.

  expected: number plate details in text form.

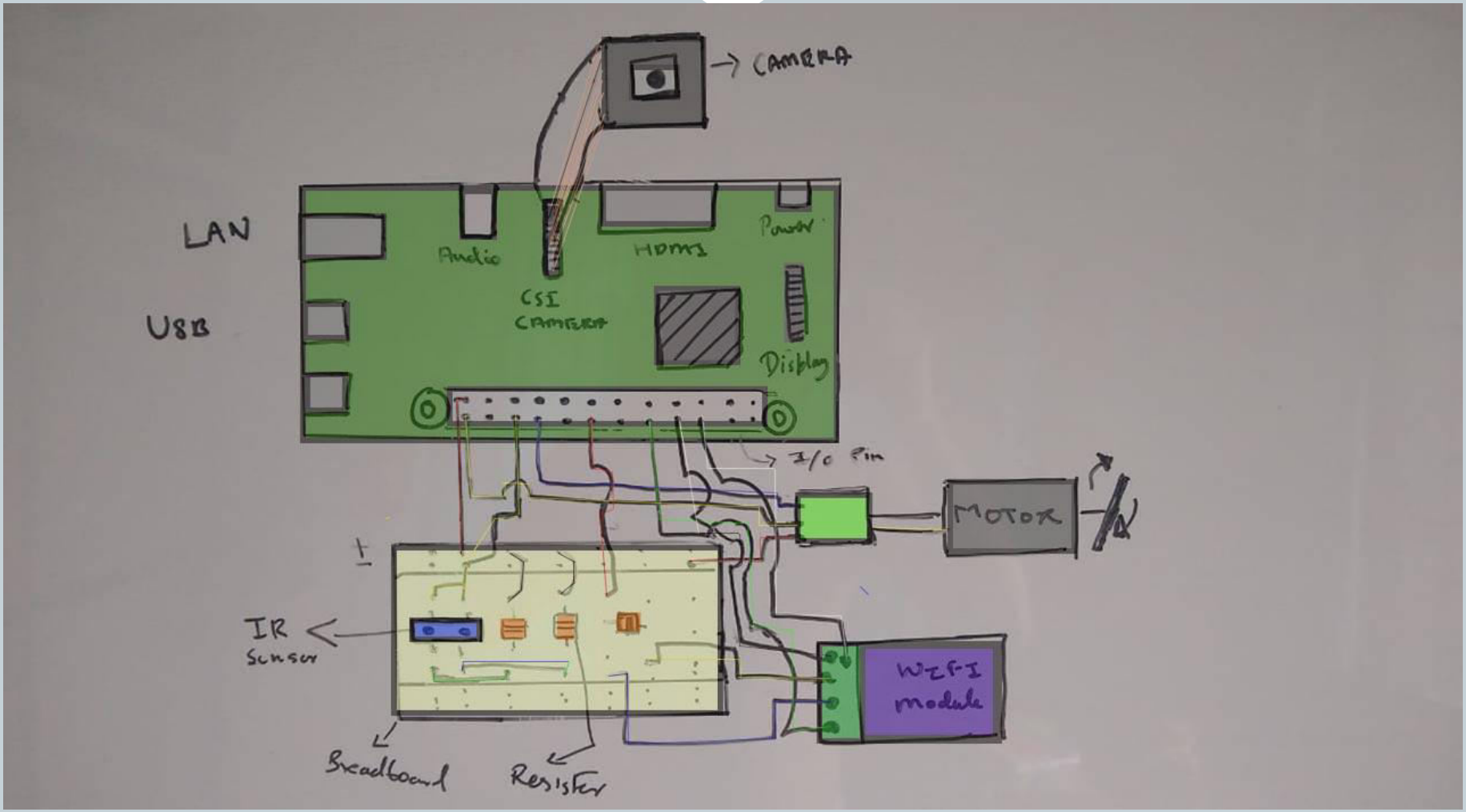
- MODULE 3: programming the system to perform corresponding actions based on the results obtained by module 2.

  expected: the gates to open or remain closed.

- MODULE 4 : setting up a web application to access the stored data.

  expected: a web application to view the saved images.

CIRCUIT DIAGRAM



THANK YOU