Final Year Project Log

# Face Recognition Fleet Management System

## **Date:20/03/2020**

## **Log Number : 22**

## **Reflection:**

Week one of self-Isolation, it has been surreal.

This past week has been all about writing the GUI on the Raspberry Pi and getting it to function as I wanted. TkInter is not intuitive at all and took a lot of practice on JupyterLab to try and even come close to where I was happy with the look of the GUI. I put a lot of time into the design of the login and registration for the Pi, it is still looks rudimentary, but it took many hours to get it to function how it does. It has been one of those pieces of this project that took so much time but looks like it was completed in minutes.

I had a breakthrough with the encrypt, decrypt problem. As I got to understand on a deeper level how Bcrypt functions differently in JavaScript compared to Python, I realized that JavaScript creates an encoded, hashed version of the password in one step, whereas in Python you must first create a binary of the password and then create the hash of the binary. When comparing the entered password with the encrypted password the system through out false negatives. I figured out that if I encoded both passwords before checking them that the Python code finally started to return a positive. Again, the solution was simple, the journey was long and frustrating.

Finally, this week I have integrated the GUI code, with the Mongodb code and the face recognition code. I figure that out of the code that I demonstrated at Christmas less than 10% of it remains.

## **Tasks:**

1. This week I am taking a break from coding and concentrating on trying to get a start on my report. This is something that I always have a problem with and find very difficult. I am not a good report writer and avoid, avoid, avoid at all costs. I just need to put an effort in this week coming.