



Bi-Weekly Report Number 10

Computer Vision for Object Detection in Medicine

Team Number 6

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COMP0016 System Engineering

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Week Overview

During the past two weeks we focused on trying to improve the speed of the system. After demonstrating our current progress to Dr. Yun Fu, it was pointed out that the speed of the system had to be improved. We realised that we had been using the wrong type of web API. Instead of a REST API we could open up a connection once using sockets and constantly stream the data along the connection. Therefore we had to modify our API to use the python sockets library.

The team also focused on the login page and setting up the encryption system for storing passwords. We decided on using salts and peppers in order to make passwords more secure by using SHA256 for hashing the passwords. The team also added all previous bi-weekly reports to the website in order to keep the system up-to-date.

The team also gave a presentation to the client and others at GOSH DRIVE describing the functions of the project and showcasing the teams current progress by demonstrating the detection system.

List of tasks completed

- Connect Sockets
- Client Presentation
- Setup complete list view
- Finish Login page

Plans for next month

- Complete website
- Run tests on system
- Complete videos
- Finalise system
- Complete Database

Individual tasks completed

Benedict

During the past two weeks I have worked on integrating all the parts we had made into one big application and tidying up all the code. I also worked on redoing the web API to use sockets.

Shirin

During the past two weeks I have worked on the login page and its database, making sure that passwords are stored securely as well as working on the website and the presentation for the client.