EE/CprE/SE 492 BIWEEKLY REPORT

10/12/2020 - 10/26/2020

Group number: 27

Project title: Big Classroom Support

Client &/Advisor: Dr. Lotfi

Team Members/Role:
Brendan Niroula - Leader
Ali Al Ahbabi - Front End Development
Jian Kai Lee - Back End Development
Zechen Huang - Facial Recognition Specialist

Weekly Summary

The objective of this week was to ensure the end to end application is functioning correctly and seamlessly. We fixed bugs which were causing many issues on the smart glasses side. All testing has gone well using emulators, however, we have run into an issue where the glasses will need to be connected to the school wifi in order to hit our server endpoints.

Past Week Accomplishments

Hitting facial recognition endpoints and sending name to the server - Brendan Niroula

- Fixed a bug where the image was being sent incorrectly
- Fixed a bug where the socket was not connecting on running the application

Update android app to support the new api - Ali Al Ahbabi

- Rewrite the code of uploading profile image to support the new api
- Create a feature to request captured image through websockets

Django server testing- Jian Kai Lee

- Test django channel with websocket client
- Continue to test smart glass and django server

Applying logging and practice- Zechen Huang

- Logging is added to my part
- practice opencv

Pending Issues

- Glasses must be connected to school wifi in order to test.

Individual Contributions

Name	Individual Contributions	Hours This Week	Cumulative Hours
Brendan Niroula	Websockets, Facial recognition, server communication	7 last week and 5 this week	125
Ali Al Ahbabi	Update android app to support the new api	6 Last week and 6 this week	120
Jian Kai Lee	Django server testing	6 Last week and 6 this week	120
Zechen Huang	Demo opencv to add names on pictures, but have some error with django server	6 Last week and 6 this week	122

Plans for the upcoming week

- Get the glasses to function while on school wifi - Brendan
- Smartglass testing with django socket - Jian Kai Lee
- Try to use opencv to transform the image to a labeled image and send back using websocket- Zechen Huang
- Display the names sent from Zechen algorithm -Ali

Summary of weekly advisor meeting

Test the end to end product and prepare for a demo.