

EE/CprE/SE 491 WEEKLY REPORT

2/17/2020 – 3/1/2020

Group number: 27

Project title: Big Classroom Support

Client &/Advisor: Dr. Lotfi

Team Members/Role:

Brendan Niroula - Leader

Ali Al Ahababi - Front End Development

Jian Kai Lee - Back End Development

Zechen Huang - Facial Recognition Specialist

Weekly Summary

The objective of this week was to make decisions on smart glass hardware devices based on our research, discuss the design concept and sketch the design diagram. Task completed included a decision on smart glass and ordered the smart glass from the company. We decided to use the smart glasses from Vuzix. We are currently working on our design flow and sketch up.

Past Week Accomplishments

Proposed my research on smart glass and research on android studio - Jian Kai Lee

- Proposed Vuzix Blade Smart Blade and functionality to Professor
- Request discount code for education purpose from Vuzix Company
- Research the android development on android Studio

Set up front-end development environment - Android studio- Ali Al Ahababi

For the past week we have been testing many cross platforms to develop our app such as Xamrin , Flutter and many others. However we ended up choosing Android studio since our requirements changed. Our app will be for android os only.

Set up back end development environment, contacted companies about hardware and SDKs and began testing Python language - Brendan Niroula

- Contacted multiple companies to check if their smart glasses had SDKs
- Set up Back end development environment
- Made some simple python programs

Set Up a backend development environment. Try to connect the output of python algorithm to a file or database. -Zechen Huang

- Set up a backend development environment
- Try to output Python algorithm to a file or database
- Find how to use the picture on the smart glasses

Pending Issues

Project design flow diagram - Everyone

Individual Contributions

Name	Individual Contributions	Hours This Week	Cumulative Hours
Brendan Niroula	Set up a Backend development environment, researched hardware.	4 this week and 6 last week	28
Ali Al Ahabbi	Set up front-end development environment - Android studio	6 this week and 6 last week	30
Jian Kai Lee	Research on Android Development in Android Studio	4 this week and 4 last week	26
Zechen Huang	Set up a backend development environment. Try to connect the python output and mysql	6 this week and 6 last week	30

Plans for the upcoming week

Create Android App Demo version with Android Studio - Jian Kai Lee

Start developing mobile app using android studio - Ali

Finish Design Diagram Sketch Up - Everyone

Set up backend Server - Brendan/Zechen

Set up database - Brendan/Zechen

Summary of weekly advisor meeting

- Change some of the project requirements such as developing the app for android only instead of iOS.
- Decided which smart glasses to use and request it from ETG