Week 14

The first initial meeting was where introductions were made, and groups were formed. Various rules and ways of communication were set up for the groups and the whole. Our group back-end focused on reading the documentation for different uses of storing data so in the next meeting we could decide on that.

I read documents on the different ways we could store data and suggested them in our communication channels which were discord, I recommended either Firebase or AWS since we could use free tiers of those services.

In the second meeting, we discussed some more details about the project breakdown and how we wanted to set up the communication between the robot and app as well as the back end.

Backend set up a meeting right after the collaboration meeting where we broke down the project and set up Trello for dividing work, we discussed various topics and we decided on programming languages and other technologies such as the choice of a database but also set up a real-time database

Total hours worked: 10 hours

Week 15

This week I and the other members of the team tried to set up our own database, which I spent most of the time on, finishing setting up the database but encountered errors which we as a group discussed in our backend meeting on how to handle these issues.

There was also a group meeting where all the squads discussed further how the communication should be handled and what the requirements specified and what should be done.

Total hours worked: 18 hours

Week 16

This week we together as a group decided to lay the groundwork for the project. We started out discussing the entirety of the requirements and structuring all issues we on the backend were supposed to do. We sat down in a classroom and mapped out all the data and routes we are supposed to have to meet the requirements.

After the group meeting with the other squads, we learned more about what we on the backend should do to satisfy the needs of the application and hardware side. So after this meeting, we decided to create documentation of what jobs need to be done after hearing from the other groups.

Total hours worked: 20 hours

Week 17

We started off by assigning each member in the backend squad each individual task to maximize effectiveness. I was assigned to handle everything about the image, so I read the documentation on firebase storage since it was something I did not have knowledge of. This took a bit of time since we had some issues connecting every part together because we worked on different computers. But on the last day of the week, I managed to integrate the storage into the project.

Total hours worked: 21 hours

Week 18

This week I did not get much work done since I got infected by the coronavirus which limited what we could do. But I told the guys that I could help them from home. But I did finish making it possible to upload and download images to the storage while also helping the hardware send data to us in the backend.

Total hours worked: >8 hours

Week 19

This week I started working on the image classification which did not start very well since I wanted to use the firebase machine learning image classification but later realized that it only worked on mobile applications. Thus I started by reading and learning about the google cloud vision API and trying to implement that which I got to work on by Friday which gave me 10 labels. The next step was to handle some routes to the API and integrate the image as well as the image classification labels to a collision event which I got work on Sunday approximately.

Total hours worked: 22 hours

Week 20

This week I finished up with all assignments I had but testing and refactoring which is what I spent the entire week on. While testing and refactoring I also faced some bottlenecks when discussing with the other squads because they wanted to change some things that we made for example removing id field from body requests to letting the server/firebase auto-generate it. So this week we on the backend and the other squads went back and forth to adjust our code to the respective squads while simultaneously changing the documentation. We also started working on a presentation and documenting the software product.

Total hours worked: 21 hours