

Weekly Report 14 (4/14/16)

Iowa State Bike Share Program Advisors: Professor Mina / Professor Kargol

Members / Group Rules

- Jordan Studer - Team Leader
- Molly Schaeffer - Team Key Concept Holder
- Kaitlynn Kruse - Team Key Concept Holder
- Kyle Perkins - Team Communication Leader
- Brian Anderson - Team Communication Leader
- Jeffrey Neel - Team Webmaster
- Mohammad Darwish - Team Webmaster

Weekly Summary

This week, the hardware team updated the total bill of materials to reflect some changes we've made with the hardware. We also met with Mr. Kargol to discuss mechanical changes that may need to be made to the docking station itself for better efficiency, reliability, and manufacturability. The software team continued work on the web, server, and android applications. We got together and discussed our poster and finished it later in the week.

Members Present (Date of Meeting)

Meeting with Mr. Kargol (4/13/16) Members Present: Brian Anderson and Kyle Perkins. We discussed our meeting with James Heise and the numerous changes we think should be made to the stand and the metal plate within the stand. These include adding a door to one of the legs of the stand, changing the material of the plate in the stand, making the plate thinner, rounding the bike-hinge entry to the stand/plate and marking where we want holes on the plate to tie down the electronics. We also discussed where we will be mounting the RFID reader and tag for now.

Meeting to discuss poster (4/14/16) Members Present: Molly Schaeffer, Kaitlynn Kruse, Kyle Perkins, Brian Anderson, Jeffrey Neel, and Mohammad Darwish. We discussed the information we wanted on our poster and how it should look and feel. We gathered all of the information together and planned out what would go where.

Meeting with ITS and Mr. Kargol (4/14/16) Members Present: Molly Schaeffer, Kaitlynn Kruse, and Jeffrey Neel. We discussed security issues with the web application and docks.

Accomplishments of Past Week

This past week we updated our bill of materials to better reflect our new electrical hardware purchases and all of the necessary components to build a complete bike stand. We also finalized where we will be placing the RFID tag and reader: extending from the metal leg that runs to the front wheel and within the leg of the stand respectively. The software team also continued work on the web, server, and android applications. We also finished our group poster.

Plan for Coming Week

The plan for the upcoming week involves working on our final document for the project. We will also be finishing the code on the raspberry pi and further testing and tweaking the hardware and software to get the best functionality.

Pending Issues

- Waiting for our new PCB

Individual Contributions

- Jordan Studer - Created the poster and worked with content on that. Started prettifying the Android application.
- Molly Schaeffer - Attended poster meeting, attended ITS meeting, redesigned block diagram of web app, worked on authentication of web app

- Kaitlynn Kruse - Attended meeting with group about design of the poster, attended ITS meeting, worked on poster content and worked on web application bugs.
- Kyle Perkins - Attended both meetings, worked on updated bill of materials
- Brian Anderson - Worked on BOM and attended hardware meetings.
- Jeffrey Neel - Attended poster meeting, worked on creating multiple test docks for the demo and more rigorous testing
- Mohammad Darwish - Attended the meetings and worked on the web app.

Individual Hourly Contributions

Team Member	Weekly Hours	Cumulative Hours
Jorden Studer	8	72
Molly Schaeffer	7	102
Kaitlynn Kruse	6	79
Kyle Perkins	4	57.5
Brian Anderson	4	57.5
Jeffrey Neel	8	84
Mohammad Darwish	4	52