

Weekly Report 4 (2/4/16)

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, our team continued work on the web and android applications and did more research on better hardware components - namely the screen and RFID reader and tag. The hardware team met with our advisor Mr. Kargol to discuss concerns and ideas about the bike stand, and the entire team met with our instructor for senior design and discussed our project, its current whereabouts, what we've managed to accomplish, and how we plan to move ahead.

Members Present (Date of Meeting)

Group Meeting with Instructor (2/4/16) Members Present: Jordan Studer, Molly Schaeffer, Kaitlynn Kruse, Kyle Perkins, Brian Anderson, Jeffrey Neel, Mohammad Darwish. For this meeting, we discussed our project, what we've worked on, what issues have arisen, how we've handled certain situations, and how we are looking to move ahead and finish our project.

Hardware Meeting with Advisor (2/4/16) Members Present: Brian Anderson and Kyle Perkins. We discussed concerns about the bike stand: the placing of holes, nuts, and screws in the metal plate, the smaller thickness of the bike stand leg, the alignment of

several pieces and the locking mechanism. We also discussed what we planned to improve upon from our last demo and how to go about fixing some of the aforementioned mechanical issues.

Accomplishments of Past Week

We nailed down most of the concerns about the bike stand - who to contact about them and the avenues to take in resolving them. We also researched some more hardware components so that we can replace the current screen with a less bulky one, as well as figure out which RFID reader and tag we want to end up with for the final design. The software team continued work on the web, server, and android applications.

Plan for Coming Week

In the upcoming week, we will do more research on which RFID reader and tag we want to go with and put the bike stand back together for another demo. This will give us more information on what needs fixing or tweaking. The software team will continue working on the web, server, and android applications. The software team is planning to have a code jam to work on the web application.

Pending Issues

- PCB layout
- Finding the right RFID reader and tag to mount on metal

Individual Contributions

- Jordan Studer - Continued to work on Android App and got a new framework created
- Brian Anderson - Found a replacement screen for the pi and researched RFID tags
- Jeff Neel - helped to teach others how to use django and the framework for the web application. also developed code.
- Mohammad Darwish - worked on getting local server setup. Attended meetings
- Kaitlynn Kruse - Met with Jeff about installing some software and learning Django
- Kyle Perkins - Meetings and research on RFID readers and tags

- Molly Schaeffer - Learning Django from Jeff and preparing for the meeting with the instructor

Individual Hourly Contributions

Team Member	Weekly Hours	Cumulative Hours
Jorden Studer	3	11
Molly Schaeffer	2	14
Kaitlynn Kruse	2	9
Kyle Perkins	2.5	21.5
Brian Anderson	2.5	21.5
Jeffrey Neel	4	11
Mohammad Darwish	3	9