

Weekly Report 5 (2/11/16)

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 got together and put the bike stand together again for another expo. Aside from that, the hardware team worked on more researching for components, mainly the RFID bike tag and reader. The software team continued development on the server as well as the web and android applications.

Members Present (Date of Meeting)

Meeting with Mr. Kargol to work on bike stand for expo (2/8/16) Members Present: Brian Anderson, Kyle Perkins. Worked on the bike stand and prepared it to be shown off during an expo. Discussed possible improvements and what will be changing with the bike stand from a mechanical point of view.

Code Jam (2/8/16) Members Present: Kaitlynn Kruse, Jeff Neal, Molly Schaeffer, Mohammad Darwish. Getting Kaitlynn set up to help the web application team and working on getting everyone else's development environments to work correctly. Also discussed the web application since everyone from that team was present.

Accomplishments of Past Week

This week, we more clearly defined what needs to happen with hardware in the bike stand, as well as discovered that the current RFID bike reader will not work in the stand with all of the metal present, so changes must be made to that. We also found that the new bike stand will not house our current power supply, so we've ordered a different one and plan on testing that when it arrives. We got the bike stand working however for the expo, which went well. More work on the server and web and android applications has been done as well.

Plan for Coming Week

This upcoming week we will work on finding a replacement for the RFID reader, as well as find an accommodating RFID tag for the bike. We must test the power supply when it arrives. We will also be working on the PCB layout and reworking the current code on the pi from last year to better fit the new system. We will also be continuing work on the server and web and android applications.

Pending Issues

-Finding a replacement RFID reader and tag that works well around metal

-PCB layout

Individual Contributions

- Jordan Studer - Worked with Android App to get framework working and added features
- Brian Anderson - prepped bike stand for exposition. Ordered and discussed new components for stand.
- Jeff Neel - worked on bikeshare server and django helped others set up environments
- Mohammad Darwish - Worked on changing color scheme and UI on the admin pages.
- Kaitlynn Kruse - Attended code jam, looked at Django code, read tutorials.
- Kyle Perkins - worked on bike stand for expo, researched RFID readers/tags

- Molly Schaeffer - Attended code jam. Looked into bug with Django on the server not running correctly.

Individual Hourly Contributions

Team Member	Weekly Hours	Cumulative Hours
Jorden Studer	6	17
Molly Schaeffer	3	17
Kaitlynn Kruse	4	13
Kyle Perkins	7	28.5
Brian Anderson	7	28.5
Jeffrey Neel	6	17
Mohammad Darwish	5	14