

Weekly Report THREE (Sept 21, 2015)

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 met with our advisor and discussed what needs to be fixed on the old bikestand system and how we could go about doing that. Over the next few days we fixed the old bikestand in time for the demo on 9/20/15. Our next steps involve improving the current system greatly, both by making the hardware less complex and less messy, and by working on the software portions of the project.

Members Present (Date of Meeting)

Meeting with Advisor (Sept 14, 2015) - Members present: Molly, Kaitlynn, Kyle, Brian, Jeff, Mohammad. Discussed our current situation with the bikestand and what's working and what isn't. Discussed issues with the current bikestand and how to go about testing and fixing them. Talked about potential outside help with the phone app's design. Talked about the process of ordering parts.

Hardware Team Meeting (Sept 17, 2015) - Members Present: Jeff, Mohammad, Brian, Kyle. Worked with the current bikestand and got basic functionality restored for the demo.

Meeting with Advisor to discuss the demo (Sept 18, 2015) - Members Present: Jeff, Mohammad, Molly, Kaitlynn, Kyle, Brian Discussed how we fixed the bikestand, what was wrong and potential ways of making it even better. We discussed certain aspects of the software, and also the process for demoing the bikestand on 9/20/15.

Accomplishments of Past Week

Fixed the old bikestand: reworked a bit of the old raspberry pi code, changed a couple pins on the raspberry pi, and used a different relay.

Plan for Coming Week

Now that we have a basic working system ready for the demo on 9/20/15, we can begin working on making the current system more efficient while also adding more software functionality. Hardware team will be working on designing a much less complex and messy version of the current system. Software team will continue work with the server, website, and phone app.

Pending Issues

Waiting on certain pieces of hardware

Communication with other groups/people who will be contributing to this project

Individual Contributions

- Jordan Studer - Looked into android system and project requirements
- Brian Anderson - Helped with fixing the old bikestand: tracing wires, figuring out pin connections, troubleshooting.
- Jeff Neel - started looking at the team's website as well as worked on hardware to get it up and running for the demo that was sunday.
- Mohammad Darwish - Researched ideas to include into the project and helped hardware team integrate the bike stand with the existing server.

- Kaitlynn Kruse - Continued research on existing components and features to include in the application.
- Kyle Perkins - Helped with fixing the old bikestand: tracing wires, figuring out pin connections, troubleshooting.
- Molly Schaeffer - Brainstorming ideas and features for the applications, continued research and tutorials on MEAN stack

Individual Hourly Contributions

Team Member	Weekly Hours	Cumulative Hours
Jorden Studer	2	5
Molly Schaeffer	3	7
Kaitlynn Kruse	3	7
Kyle Perkins	4	8
Brian Anderson	4	8
Jeffrey Neel	5	10
Mohammad Darwish	2.5	8