

# Weekly Report TWO (9/15/15)

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

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## 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

Our team got together and discussed the current project's whereabouts and where each of us should begin in taking over the project. We split up into different smaller teams, a couple of us working on the phone app, a couple of us working on the website and server, and the others working on the hardware and embedded systems. We figured out what needs to get done early and what can wait for later, and we tested a fair amount of the old system and decided what needs to be reworked and what can remain.

## Members Present (Date of Meeting)

Team Meeting - Sept 10, 2015: Jordan, Molly, Kaitlynn, Kyle, Brian and Jeff were present.

Discussed plan of attack, who will be doing what in the next week or two. Talked about what parts we might need to order and what we need to get done early and what can wait. Discussed software implementation and to go about fixing/reworking the old team's code.

## Accomplishments of Past Week

Diagnosed the old bike stand: found out that it was a software issue, not a hardware a issue. Found the prior team's code and looked through it, seeing where mistakes were made and how to go about fixing/reworking things.

### **Plan for Coming Week**

Get a list of parts needed to improve the current bike stand and order the parts. Get the prior team's code working on our own server in order for the bike stand to work and have basic functionality for the demo on Sept 20.

### **Pending Issues**

Getting parts ordered might be a hassle. Working through the prior team's code and figuring out their logic and how they went about doing things might be difficult, but definitely doable.

### **Individual Contributions**

- Jorden Studer - Researched more into different technology we could use for our system. Started looking into the Android Application that I will be working on and looked into the RPI code to get familiar with it.
- Brian Anderson - Examined the existing wiring for the bike station. Identified ways to simplify existing wiring. Searched for hardware issues by testing voltages and checking pin-outs. Looked into potential replacement power supplies, LED's, and solenoids.
- Jeff Neel - Looked into setting up network in a more efficient manner for management and long term use. Also looked into hardware and wiring of the stand as well the raspberry pi code and server communications.
- Mohammad Darwish - Installed local development environment on my local machine. Examined server code and made it function on my local machine. Helped get HTTP requests to function from the Raspberry Pi.
- Kaitlynn Kruse - Looked at the existing team's code and documentation to become more familiar. Researched the existing MEAN framework that will be used. Also read up on GitHub with regards to branching and began installing

necessary programs on my personal machine for the Application I will be working on.

- Kyle Perkins - Looked at the bike stand's wiring, traced wires, looked at possible hardware issues. Looked up possible parts to replace some of the existing system for a more efficient design.
- Molly Schaeffer - Researched MEAN framework that we will be using and figured out branching in GitHub. Took and posted meeting notes.

### Individual Hourly Contributions

Team Member	Weekly Hours	Cumulative Hours
Jorden Studer	2	3
Molly Schaeffer	3	4
Kaitlynn Kruse	3	4
Kyle Perkins	3	4
Brian Anderson	3	4
Jeffrey Neel	4	5
Mohammad Darwish	4.5	5.5