

# EE 491 Weekly Report MAY15-17 Week 6 (10/6/14-10/12/14)

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**Advisor(s):** Dr. Mitra **Client:** Workiva

**Members (roles):** Caleb Brose (Team Lead), Chris Fogerty (Communication Lead), Nick Miller (Webmaster), Zach Taylor and Rob Sheehy (Key Concept Holders)

**Project Title:** System for Managing Execution Containers in a Cloud Environment

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**Project Site:** <https://lighthouse.github.io>

## Weekly Summary

Work is going along well on the MVP. We have a decent wrapper around the Docker API in the works. We're also working on an updated front-end that will allow users to view Docker containers on more than one machine. While we're doing that, we're also preparing for accessing multiple instances across multiple cloud providers.

## Meeting notes:

**10/6 Group Meeting with Dr. Mitra**

**Duration:** 30 min **Members Present:** All

### Purpose and Goals:

Update Dr. Mitra with what we've been working on, and how we're progressing.

### Achievements:

Dr. Mitra was impressed with our progress on our project.

**10/9 Team Meeting**

**Duration:** 60 min **Members Present:** All

### Purpose and Goals:

Finish discussing and designing APIv0.

Migrate front-end work from previous prototype and incorporate into main repository.

### Achievements:

Finished designing APIv0, assigned some tasks, started implementing APIv0.

Created separate repository for front-end work to support decoupling of major components

## Pending issues

1. Deploying and configuring new servers seems to be a hassle
2. Scope of individual work is poorly defined
3. Build process hindering iterative development work

## Plans for next week

Describe who will do what....

1. Secure backend within Docker VM (Chris, 3-4hr)
2. Create front-end Docker API wrapper (Nick, 2-3 hr)
3. Set up front-end to support mock API responses.
4. Complete front-end UI mockups (Zach, 3 hr)

## Individual Contributions (this week)

Caleb:

Researched backend auth. (2 hr)  
weekly meeting (0.5 hr)  
Team meeting (1 hr)  
Started backend HTML -> JSON conversion (4 hr)

Nick:

Team meeting (1 hr),  
weekly meeting (0.5 hr),  
Submitted pull request for modifying build process (3 hr)

Rob:

Zach:

Team meeting (1 hr),  
Weekly meeting (0.5 hr),  
AngularJS Tutorials (1.5 hr),  
Interface Mockups (3 hr),  
API Interface Design and Doc (0.5 hr)  
Misc Docker research and discussion (1 hr)

Chris:

Team meeting (1 hr),  
Researched GCE API (1 hr),  
weekly meeting (0.5 hr),  
Looked into securing Docker VM (1 hr)

## Total contributions for the project

Team Member	Hours this week	Total hours
Caleb Brose	7.5	38.5
Chris Fogerty	3.5	26
Nick Miller	4.5	31.5
Rob Sheehy	-	31.5
Zach Taylor	7.5	26.5