

Week 1 Status Report

SE 492: Team sddec19-24

DevOps Framework for IOT

Client / Faculty Advisor: Lotfi Ben Othmane

Team Members:

Yussef Saleh	<i>Team Leader</i>
Matt Bechtel	<i>Chief Designer / Engineer</i>
Brett Wilhelm	<i>Assistant Programmer / Engineer</i>
Chakib Ahlouche	<i>Assistant Programmer / Engineer</i>
Ahmed Sobi	<i>Assistant Programmer / Engineer</i>

Git repositories for extensions mentioned below:

<https://git.ece.iastate.edu/sddec19-24/iot-deployment-manager/>

<https://git.ece.iastate.edu/sddec19-24/iot-deployment-service/>

o Weekly Summary

This week we began planning our goals for this semester, meeting with our advisor to discuss the expected scope of the project. During the meeting we got a good sense of what is going to be expected at the end of the semester, a functional, demoable, DevOps tool.

Our project is a continuation of another senior design team's work, so what we have to add to make this achievable should not be out of reach, but it will take a bit of work. The game plan to achieve this goal goes as follows: Set up a development environment, so that every service in the system can be easily modified and deployed. Figure out what has been built as far as user management and UI goes. Then, add the existing (it may need modifications) user management functionality to our new deployment service and manager, so that users may be able to control deployments and link them to their account.

Until the next meeting we will work on deploying the existing code and getting a development environment up and running.

o Past Week Accomplishments

- Initial meeting with client/advisor
- Targets set for presentation later this month
- Set expectations for what product should look like at the end of the semester

o Pending Issues

- Designing and making a user interface of the deployment destination (web or PI)

- Integrating our IoT deployment manager to the existing components of the projects

o Individual Contributions

<u>Name</u>	<u>Individual Contributions</u>	<u>Weekly Hours</u>	<u>Total Hours</u>
Yussef	> revised existing code. > researched about ways to do the integration	3	43
Matt	Explored deeper into the existing hammer io codebase, trying to figure out how to get everything running. This was done last semester briefly, until we decided to spend more time on the building of the new deployment service and manager. Planned out the strategy we will use to perform development.	3	61
Brett	Due to change in OS, development environment had to be set up again. Change in OS did not facilitate making this process easy. Researched the React framework to prepare for future UI work.	5	40
Chakib	Looking on how to integrate the deployment manager to the existing components of hammer .io ,trying to understand how to use react for the existing UI .	3	48
Sobi	since I joined this team this semester , I am trying to get familiar with the project and understand the technologies used , reading the documentation .	3	3

o Plans for Next Week

- Reaching out to ETG to get the server up and running
- Prepare and to give a presentation on the 26th
- Set up docker network with existing services, use docker compose to stand up an entire system with one command

o Summary of Advisory Meeting

- Set expectations for presentation deadline, as well as for end of semester