

EE/CprE/SE 491 WEEKLY REPORT 2

9/24 - 10/7

Group number: sdmay26-27

Project title: MYSTEM Growth Survey Tool

Client & Advisor: Dr. Diane Rover

Team Members/Role:

Nina Gadelha: Cybersecurity Developer/Pentesting

Caleb Hemmestad: Backend/Cloud

Ethan Buening: Backend/Cloud

Ethan Van Caster: Developer/Client Contact

Sam Craft: Developer/Tester

Ryan Mamrot: Developer/Tester

○ **Weekly Summary**

- Met with Client/Advisor
- Gained access to previous github and AWS
- Basic navigation through git files/AWS
- Testing some security vulnerabilities
- Brainstorming improvements/researching techniques
- Completed Design Document Part 1
- Attempted contact with previous team

○ **Past week accomplishments**

● **Nina Gadelha**

- Fixed and now able to run frontend and backend from localhost on computer
- Tested some basic security vulnerabilities
- Researching how to fix modularity (making tool applicable on smaller devices such as a phone)
- Wrote a “survey” for Dr. Rover, asking questions about how/what she would like improved in regards to app current state
- Navigated previous github
- Finished reading previous teams documents

● **Sam Craft**

- Cloned repository to personal machine

- Looked through current code base
 - Experimented with current exploits
 - Continued to read previous team docs
 - **Caleb Hemmestad**
 - Cloned the repository from the previous team
 - Discovered more vulnerabilities with the project
 - Explored the backend of the code and learned how it works
 - Messed around with the API to learn more about the capabilities
 - **Ryan Mamrot**
 - Reviewed JavaScript libraries such as React
 - Cloned repository to personal machine
 - Looked through the current code base
 - Finished reading previous team documents
 - Looked at how to fix scaling issues based on device type
 - **Ethan Buenting**
 - Gained access to the previous team's git and clone it into the sdmay26-27 repository
 - Contacted ETG and got added to the mailing list for the root access to the Amazon Web Service allowing me to log in.
 - Added multifactor authentication to the AWS
 - Started exploring AWS and its proprietary features, including on how to implement their replacement for the Digital Ocean transfer
 - Researching how to transfer the current database tables over so we don't lose data for the current users
 - **Ethan Van Caster**
 - Cloned personal repository
 - Set up personal environment for React
 - Researched how to change webpages when on mobile devices
- **Pending issues**
- Transition task management and team organization to GitLab issues/tasks to improve clarity and visibility of individual responsibilities and project progress

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Nina Gadelha	<ul style="list-style-type: none"> ● Got frontend/backend to run on localhost ● Created survey for Rover 	5	10

	<p>(improvements)</p> <ul style="list-style-type: none"> ● Researching how to enable modularity ● Exploring current codebase state 		
Sam Craft	<ul style="list-style-type: none"> ● Cloned Repository ● Explored current exploits ● Read through codebase ● Read previous team docs 	4	9
Caleb Hemmestad	<ul style="list-style-type: none"> ● Cloned repository ● Explored API ● Went through code ● Discovered more vulns ● Updated website with docs 	4	11
Ryan Mamrot	<ul style="list-style-type: none"> ● Reviewed React ● Cloned repository ● Explored code base ● Read previous documents ● Researched device scaling 	5	9
Ethan Buenting	<ul style="list-style-type: none"> ● Cloned the previous teams code to the current teams git ● Gained access to AWS cloud hosting server ● Researching AWS proprietary features and transfer of database 	5	10
Ethan Van Caster	<ul style="list-style-type: none"> ● Cloned Repository ● Explored frontend code 	4	9

- **Plans for the upcoming week**

- Nina Gadelha
 - Start on basic modularity fixes
 - Start reworking website layout (based on Dr. Rover's feedback response)
 - Attempt more security tests
 - Research on how to fix vulnerabilities/keeping info safe moving forward
 - (Maybe) cleanup current github state
- Sam Craft
 - Understand the current CI/CD script and learn how Digital Ocean handles that
 - Rewrite the CI/CD script to be ready for Digital Ocean
 - Continue to discover other exploits/vulnerabilities that exist
- Caleb Hemmestad
 - Work on learning how to move things to Digital Ocean
 - Hash current passwords in the database
 - Add hashing to the app for new users
 - Add password restrictions and make logging in clearer
 - Add the ability for a user to delete their account
 - Create tasks on GitLab
- Ryan Mamrot
 - Work on understanding how the conversion to Digital Ocean will affect the current code
 - Start making changes on scaling based on devices
 - Review frontend code for future changes
- Ethan Buenting
 - Work on reducing resources used to decrease the monthly price of cloud hosting
 - Setup a Digital Ocean Cloud Hosting Server
 - Start the transition of the app over to Digital Ocean
- Ethan Van Caster
 - Work on getting Live Server working so we can develop the frontend
 - Learn how to get pages to auto-adapt to mobile devices

- **Summary of weekly advisor meeting**

We discussed that AWS seemingly has a cost of \$300+ per month and how we may be switching the hosting and database to Digital Ocean in the coming weeks. Dr. Rover provided feedback on our Design Document to correctly and clearly define the problem statement and create a visual diagram to describe our user hierarchy and app flow. We also addressed how the app should be able to be used on multiple different platforms, including mobile devices.