

## *sEE/CprE/SE 491 WEEKLY REPORT 9*

*11/18 - 12/2*

*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 Buenting:** Backend/Cloud

**Ethan Van Caster:** Developer/Client Contact

**Sam Craft:** Developer/Tester

**Ryan Mamrot:** Developer/Tester

### ○ **Weekly Summary**

- Configured and deployed website via Digital Ocean
- Pushed (some) security changes to production
- Continue work on features
- Work on panel presentation

### ○ **Past week accomplishments**

#### ● **Nina Gadelha**

- Continued work on panel presentation
- Created video and idea script for demo video
- Compiling feedback from clients (intend to make clean document to share with teammates and clients to ensure clarity and possible “assign” roles)
- Continue work features

#### ● **Sam Craft**

- Present questions to Dr. Rover about the questions of the survey
- Worked on report to send to U of Iowa Research team to discuss issues found from that initial questioning.

#### ● **Caleb Hemmestad**

- Finished up cookies with tokens
- Finished middleware for frontend pages
- Finished middleware for backend api
- Added touchups to the login page
- Polished user interaction with middleware implementation so navigation wasn't

so sporadic

- Tested middleware with all user roles to make sure current features are still functional
- Pushed and deployed changes to the app
- **Ryan Mamrot**
  - Improved overall UI responsiveness across different devices and screen sizes
  - Validated complex survey calculations using varied test inputs and corrected inconsistencies
  - Reviewed the full survey layout, refined visual issues, and ensured consistency with the original design
- **Ethan Buenting**
  - Verified transfer of SQL transfer to Digital Ocean
  - Set up app platform on DO
  - Created 2 different web services on App Platform, 1 for frontend and 1 for backend api controllers/service providers
  - Started on CI/CD, having some issues with DO not recognizing university Git. I had to clone the project and push to a private repository not on the University Gitlab server.
  - Set up all environment variables in DO so the new application link works with the Database on DO, not the AWS database.
  - Changed the dbconfig file to allow for both easier local testing and accessing the new database
- **Ethan Van Caster**
  - Proof report for U of Iowa Research team
  - Send report and the requested screenshots of pages to the U of Iowa Research team along with related questions
  - Finish and merge request mobile screens for survey, banners, options and admin dashboard

○ **Pending issues**

- No pending issues

○ **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Nina Gadelha	<ul style="list-style-type: none"><li>● Work on panel presentation slides</li><li>● Created video + script idea for demo/walkthrough video</li></ul>	8	53

	<ul style="list-style-type: none"> <li>● Feature work</li> <li>● Organizing User Features feedback into a doc to share</li> </ul>		
Sam Craft	<ul style="list-style-type: none"> <li>● Determined issues with questions</li> <li>● Got initial feedback</li> <li>● Worked on report for U of Iowa team</li> </ul>	8	46
Caleb Hemmestad	<ul style="list-style-type: none"> <li>● Finished cookies and tokens</li> <li>● Completed frontend middleware</li> <li>● Completed backend middleware</li> <li>● Login touchups</li> <li>● Frontend/backend middleware testing</li> <li>● Regression testing</li> <li>● Pushed changes to repo</li> </ul>	8	52
Ryan Mamrot	<ul style="list-style-type: none"> <li>● Improved UI responsiveness across devices</li> <li>● Validated complex survey calculations thoroughly</li> <li>● Reviewed and refined full survey layout</li> </ul>	6	50
Ethan Buenting	<ul style="list-style-type: none"> <li>● Added 2 web services on DO</li> <li>● Configured web services to work as frontend and backend while pulling from same repository</li> <li>● Set up new environment variables for calling new database</li> <li>● CI/CD progress</li> <li>● Reconfigured dbconfig file to still allow for local testing.</li> </ul>	14	54
Ethan Van Caster	<ul style="list-style-type: none"> <li>● Send report and screens to U Iowa</li> <li>● Finish and merge request mobile screens</li> </ul>	8	47

- **Plans for the upcoming week**

- Nina Gadelha
  - Finish panel presentation slides
  - Push changes from local host to production
  - Continue to work with client on “User Feature” document
  - Implement small changes based on document feedback
    - Set up dummy account
    - Add option to turn on off certain fields
  - Finish design document
- Sam Craft
  - Get report finished and sent out to U of Iowa Research team
  - Use feedback to improve and rewrite parts of the tool that are not up to standard.
  - Look if we are able to pull data anonymously already or if that functionality will have to be added.
- Caleb Hemmestad
  - Hash all current passwords in the database now that transition is done
  - Create a user backup for if hashing goes wrong
  - Update login to work with hashed passwords
  - Look into database changes for new PC layout and changes
- Ryan Mamrot
  - Expand device testing to catch remaining UI responsiveness issues
  - Perform deeper validation on survey edge-case calculations
  - Continue polishing layout elements that still look inconsistent
  - Begin documenting UI changes for future maintenance
- Ethan Buenting
  - Fix the DNS that I broke so we don't have the ondigitalocean link.
  - Look through sddc24-11 documentation to see if I can find a way to upload directly from ece Gitlab to DO.
  - If not, create a mirror system that mirrors project from ece Gitlab to a team email Gitlab project, then CI/CD's into DO
  - Work on anonymous data export to more closely match the request of the University of Iowa Team.
- Ethan Van Caster
  - Work on adapting the mobile pages to the changed pc dashboard
  - Work on changes that come from the U of Iowa's survey results /questions
  - Work on the presentation for the faculty panel

- **Summary of weekly advisor meeting**

Due to weather conditions, we had to push our meeting back until after this document was due (12/3).