

EE/CprE/SE 492 - sdmay23-11

CySim

Week 2 Report

February 20th - March 3rd

Client: Doug Jacobson

Team Members:

Brady Schlotfeldt - Backend and Systems Development

Bailey Heinen - Full Stack Developer

Matthew Daoud - Project Manager

Jacob Boicken - Linux/System Administrator

Ethan Swan - Full Stack Developer

Weekly Summary:

Following getting everyone full access to the git repository as well as connection to the web application, we had a long meeting where we each went through and discussed the next steps within the app. Through this we were able to assign all of us specific tasks that we needed to get done within the next few weeks in order to keep making steady progress on the web application. Along with this due to scheduling conflicts we were unable to schedule a meeting with our client at this time, our goal is to have one scheduled during either spring break or the following week. With gaining access to the git repository we all each have our own branch within git that we can use to push our progress so that everyone can okay it before it gets moved into the main branch.

Past Week Accomplishments:

- Brady - New design features/.NET Research
 - This week I spent finishing the design and starting the implementation process of the various tutorials and inputting them into the specific tutorial page of the web application. With this I had to do some research in order to figure out how I can implement that effectively.
 - I spent a lot of time in the past two weeks trying to see how I can adjust and edit the layout/design of the web application screens in order to make it look more appealing to the people utilizing this app. This involved changing buttons, color schemes and overall layout and design change if need be.
 - Bailey has been doing the VMWare, however, during some free time this week I began trying to come up with different ways that specific machine scenarios could in fact be implemented in with the rest of the web application.
- Bailey -
 - Made sure everyone's project was running correctly on windows and mac
 - Doing research to try and figure out the best way to implement VMWare into our application

- Fixed a couple of design bugs in team registration. (Ethan will confirm them)
- Worked on the backend of team registration by trying to add correct users to the team (there are still bugs in this) team registration object defaults to users being null and I have no idea why at the moment
- Communicated with the team on software practices that have been used up to this point and the format we should follow.
- Beginning implementation on VMWare machines (this could take a while)
- Matthew -
 - Worked on getting the mySQL server to work for the Windows teams and completed setting up Windows users (including myself) to be able to connect the web application for testing.
 - Began working on scoreboard design and figuring out how to implement this in Visual Studio.
 - Attempting to setup a meeting with our advisor to sort out server needs and requirements for specific components. We also hope to give him a progress update.
- Jacob -
 - Set up basic dotnet unit and integration test in my own fork of our github repo and fixed dependency/package issues that were incompatible when running Microsoft's test framework
 - Reformatted repo for testing as Visual Studio Code does not work well with projects inside another project
 - Set up docker to build a testing environment/image
 - Set up github actions to preform security, unit, and integration tests
 - Looked into scenario controller, models, and views and began working on the design
- Ethan -
 - Got Mac development environment fully setup, including Visual Studio, Docker, SQL server, and Azure Data Studio
 - Began own Git branch on which to push graphical improvements to web app
 - Familiarized with various view pages in frontend, brushed up on C#/HTML in order to work on fixes for graphical glitches and improve workflow

Pending Issues:

- We have a current issue on deciding whether to use .net 7 or .net 6.
 - This is due to Jacob's Testing fork needing to be .net 7 to resolve package incompatibility
 - Jacob will need to find working/up-to-date versions of all packages that can be used for .net 6
 - OR
 - We all need to decide to use .net 7
- Formatting issue within the tutorial pages that is causing some trouble with the implementation. - Brady
- Team Registration bug - cannot always add users to a team

- Microsoft Identity - should display username when logged in and not email
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Individual Contribution:

Name	Contributions	Hours	Cumulative Hours
Brady Schlotfeldt	Finished tutorial design and started implementing them, also had to learn how to do this through research. Designing a refurbished layout for the web application that can be implemented eventually. Began scheming possibilities for scenarios post Baileys design as well as learning/researching how they could be implemented.	10	16
Bailey Heinen	Make sure everyone was able to get the project running. Showing the team the best code practices to follow on the app. Research on implementing VMWare into CySim. Working on the backend of team registration. And beginning implementation of VMWare	10	12
Matthew Daoud	Worked on getting Windows users setup with MySQL with the help of Bailey. Began the early stages of scoreboard design while attempting to learn more about	3	6

	implementing things in .Net/Visual studio. Attempting to currently setup a meeting with our advisor to go over the project and discuss certain elements.		
Jacob Boicken	Mostly working on the tests in my own repo and handling the errors and headaches that caused for hours as our packages were/are a mess of versions. As well, then building an environment in docker to run the tests and integrating everything with github actions.	12	16
Ethan Swan	Got dev environment and host tools fully operational, began work on graphical tweaks on local repo and worked on getting comfortable with C#HTML.	6	8

Plans for upcoming week:

- Brady
 - Finish implementation of the tutorials onto the specific page and make sure the logic fully tracks.
 - Come up with an in depth design of what I think we can make the web application look like for the team to review and either accept or reject.
 - Work to get a meeting with our client as well as a team meeting to discuss further progress.
 - Talk with Bailey on scenarios and see where he is at and see what I can do to help with the implementation.
- Bailey

- Continue grinding on VMWare implementation as well as testing its reliability.
- Answering any questions that the team may have
- Maybe get back to the backend of team registration
- Matthew
 - Hoping to fully implement the scoreboard and ensure that all logic and values are properly working.
 - Help create an overall theme for the web application that can be approved by the team.
 - Continue to work with our client in order to setup a meeting time that works best for them and the team.
 - Conduct an all hands on deck meeting in person to sort out certain issues and deliverables.
- Jacob
 - Converse with team at our next meeting to merge my testing fork
 - Show development of tests to the rest of the team
 - I will set very basic tests for each controller and build integration tests
 - Find .net 6 compatible packages or see if others can use .net 7
 - Set up my own project/kanban board for the issues I need to work on
 - Work on design for scenarios page
- Ethan
 - Try to push substantive features and improvements to overall design, front and backend
 - Meet with advisor and team members to check in about design direction, and set up more times to work collaboratively
 - Determine team availability over next couple weeks, plan work sessions accordingly
 - Continue to work on various graphical improvements and ensure that web app flows smoothly