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## EE/CprE/SE 491 WEEKLY REPORT #5

Feb 27 – Mar 05

Group number: sddec23-15

Project title: Discord Bot Integration for Replit Teams for Education

Client &/Advisor: Joseph Zambreno

Team Members/Role: Cole Mullenbach, Kristen Nathan, Kyle Rooney, Patrick Demers, Sophie Waterman Hines

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- **Weekly Summary**

We had a very productive meeting Thursday where we were able to talk about different ideas we have for the bot. We discovered that not all of us were on the same page when it came to how we thought the bot would respond in a typical situation. After talking through it, we realized that we have a few questions we need to ask Dr. Zambreno so we make sure that we are creating the bot to his liking.

- **Past week accomplishments**

### **Kyle Rooney**

I was able to get more implemented on my personal discord bot. This week I focused on reactions and how we can use them to interact with students. I was able to get my bot to identify which reactions I was using within a channel and reply with specific messages for each response. The issue I ran into was trying to learn about the message that was reacted to. I think if I can figure out a way to extract the information of the message, then this research/experiment will be really useful to us within the project.

### **Kristen Nathan**

This week I started creating examples for specific bot functions and utilities. I developed examples of student and bot interactions. Worked with the team to continue work on design documentation. Helped create the speaker notes and powerpoint for the Requirements and constraints part of our design documentation.

### **Cole Mullenbach**

Worked on getting the emoji responses implemented. Did not get very far as I did not have much time this week. I had National Guard stuff for half of the week. I also got everything running with my bot last week so I could start trying to implement the emoji responses. I did have time to help my teammates with the Requirements, Constraints, and Engineering Standards assignment.

### **Patrick Demers**

This week, Patrick produced an analysis document detailing the steps to download student code from Replit. This is more difficult than the team hoped for since there is no API made available through Replit. Overall, the process of fetching student code should be fast and relatively simple to program.

For brevity, here is a short summary of the findings. Replit requests are authenticated with a cookie named "connect.sid". Once this cookie has been obtained through an automated browser, the process of fetching code is simple. To fetch a student's assignment, a specific URL can be formed based on the assignment name, class name, and student username. This URL can be fetched with the "connect.sid" cookie set and a ZIP file with student code will be downloaded.

[Document link](#)

### **Sophie Waterman Hines**

This week I met with the team on Thursday to discuss technical implementation of our ideas for the discord bot. It felt incredibly productive to finally understand what page we were all on for aspects of the bot. This week I added all pages to the git wiki, and began drafting what content would go in each page.

- **Pending issues**
  
- **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b> (Quick list of contributions. This should be short.)	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Cole Mullenbach	Got bot fully running and started with emoji responses	3	15
Kristen Nathan	Worked on example reponses and design documentation.	2	8
Kyle Rooney	Figured out useful ways to use reactions within my personal bot.	4	17
Patrick Demers	Document the process of fetching student code from Replit.	6	28

Sophie Waterman Hines	Worked on design documentation and continued individual bot development/experimentation	2	17
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- **Plans for the upcoming week**

- Sophie Waterman Hines: Individual bot development and work on clarifying/cementing bot design.
- Patrick Demers: Document all foreseeable student interactions based on Dr. Zambreno's input.
- Kristen Nathan: individual bot development and start making UI designs and organization.
- Kyle Rooney: Finish up reaction use cases and start working on some of the base code for setting up commands.
- Cole Mullenbach: My plan is to get the emoji responses to work and then get to working on a ticketing system.

- **Summary of weekly advisor meeting**

The team did not meet with Dr. Zambreno this week.