
EE/CprE/SE 491 WEEKLY REPORT #9

Apr 10 – Apr 16

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

- **Weekly Summary**

This week we got closer to the linkage of Replit with our discord bot. Sophie worked on the link command which links the students discord name to their Replit name. There is still some more work to be done on the database side of that aspect but we are moving closer. Meanwhile Kristen is still working on making it so our bot can communicate smoothly with Replit. Cole and Kyle continued working on threading and how roles can be effective in the bot. Lastly, Patrick did some fine tuning on the Docker and VPN issue. Ultimately, the team is making good progress on implementing features and are starting to put together the team's final presentation.

- **Past week accomplishments**

Kyle Rooney

I was able to fix the pending issue surrounding the ability to create an infinite number of threads. I was also able to successfully cut out the hard coding involved with the teacher and having to include the teacher's discord ID in the env file. I did this by researching how we can use roles to tag certain groups. I believe what I did with the instructor can be done if any TA's were to join the class. With this technique we can manage the class a lot easier by the professor assigning roles. Lastly, I did research on guilds and discovered how we can use them hand in hand with roles to eliminate hardcoding.

Kristen Nathan

I continued researching and working on implementing the replit compile feature. I was also able to set up and get Docker ready for use. Met with the team to discuss our final presentation and split up the slides. I added necessary material and information to the slides I need to present.

Cole Mullenbach

I worked on some finishing touches with Kyle and also got docker set up and ready to go. Also talked to Kyle about how roles and things in discord work to help him get that set up. Met about how we were going to do the final presentation and got that looked at slightly as I had drill this weekend.

Patrick Demers

I spent this week blocked by a network connectivity issue. My Cisco Anyconnect VPN was unable to connect to the Iowa State network. After a good amount of troubleshooting with ITS, it was determined that Docker conflicts with the Cisco VPN on Linux devices. To remedy this, I was able to stop Docker from running. I managed to change the IPs Docker uses so this will not be an issue in the future. I now should be able to continue development next week.

Sophie Waterman Hines

This week I finally completed the linking command for replit usernames and discord user ids. This command collects the username and id from the command executer, and stores the two unique values in a database. Keeping them unique ensures that no user can link multiple replit accounts to a discord account and vice versa. Additionally, I introduced the database initialization file and a database configuration parser to keep database information (password, username, etc.) more secure.

- **Pending issues**

1. Need to find a way for TA's to be involved with threads
2. Need to find a way to move around information using within threads

- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u> (Quick list of contributions. This should be short.)	<u>Hours this week</u>	<u>HOURS cumulative</u>
Cole Mullenbach	Worked on the repeat thread and explained roles better. Set up docker	7	44
Kristen Nathan	Set up docker and work on Replit connectivity.	4	25
Kyle Rooney	Fixed the infinite thread bug and implemented guilds and role code.	7	45
Patrick Demers	Diagnose and fix the issue with Docker and ISU VPN.	4	68

Sophie Waterman Hines	Finished replit/discord linking command.	6	28
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- **Plans for the upcoming week**

- Sophie Waterman Hines: Work on final presentation and implement a database table check/generation method.
- Patrick Demers: Start implementing the error message response with Replit.
- Kristen Nathan: Keep developing Replit integration and work with the team to get ready for the final presentation.
- Kyle Rooney: Learn how to move information from thread to thread.
- Cole Mullenbach: Work on moving threads

- **Summary of weekly advisor meeting**

We did not meet with Dr. Zambreno this week.