
EE/CprE/SE 491 WEEKLY REPORT #6

Mar 6 – Mar 12

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**

This week, the team continued to work towards understanding optimal student and professor interactions with the Discord bot. A Python library for creating a modern, easy to use Discord bot was discovered which will be better suited for the team's needs compared to previously analyzed libraries. Next week, the half-semester class this Discord bot will support begins. The team will monitor the course's Discord server to identify patterns in student questions.

- **Past week accomplishments**

Kyle Rooney

Started researching and playing around with the Pycord library. I was able to use the buttons feature that will be used for students to interact with. I also set up a reply message that uses an embedded feature that will make the response from the bot much more proper and neat.

Kristen Nathan

Met with Zambreno and the team this week to discuss and focus on how we want the bot to interact with other students and what that looks like. Start to organize how the types of tickets will be organized and escalade based on their issue as well as help with the team website.

Cole Mullenbach

Met with the team to see where we were at with the bot. We got a good understanding of the emoji responses. I started working on the buttons below and the ticketing system. It will have open and closed tickets based on what is needed from the student. Patrick found a python library that will help us get all that ready this week.

Patrick Demers

This week, Patrick discovered Pycord which is a Python library forked from discord.py. Previously, the team was using discord.py for experimental bots, but this modern spin-off is better suited to meet the needs of the project. Pycord Documentation.

Patrick also worked to publish the team's initial version of the website. This included figuring out how to connect to the SMB server, updating the site's HTML, and uploading supporting assets to the web server.

Sophie Waterman Hines
This week, I met with the team and Dr. Zambreno to further establish the discord bot's features. Since we had all been working on slightly different understandings, this meeting allowed us to meet on the same page to continue development.

We have planned to create a discord channel in the server to act as a starting point for teaching users how the bot works and what it is capable of. This week I began drafting this channel and researched what makes for effective communication in guides.

- **Pending issues**

- **Individual contributions**

NAME	**Individual Contributions** (Quick list of contributions. This should be short.)	**Hours this week**	**HOURS cumulative**
Cole Mullenbach	Worked on the ticketing and button systems	4	16
Kristen Nathan	Add team website information and research and develop UI.	2	12
Kyle Rooney	Worked on button interaction with Pycord.	3	16
Patrick Demers	Create the team website, research Pycord.	5	33
Sophie Waterman Hines	Met with team to achieve concrete understanding of bot features, continued individual bot experimentation.	2	15

- **Plans for the upcoming week**
    - Sophie Waterman Hines: Continue work on user guide and research on ideal user guide communication.

    - Patrick Demers: Create an example workflow of student interactions with the Discord bot.
    - Kristen Nathan: make steps towards oragnizing how the bot will interact with students and what that looks like in a discord channel.
    - Kyle Rooney: Get the interaction buttons working properly from Pycord.
    - Cole Mullenbach: Get a functioning ticketing system.

- **Summary of weekly advisor meeting**

This week, the team discussed what an ideal student interaction with the bot would look like. When the bot brings an issue to the professor's attention, it may be useful for a link to student code and any automated analysis to be performed. The student should have a variety of options getting help with the bot, but always be immediately able to contact the teaching staff directly. The bot should be helpful, not a burden.