

October 25th

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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- **Bi-Weekly Summary**

This week the team worked towards finishing up the main functionality of the bot. The team worked towards full Replit integration, added additional test coverage, and added needed comments. The only things we have left to do is compile the student code from Replit, feed it to Algolia, and handoff for Dr. Zambreno. The team is hoping to get a big jump on those three items in this next sprint.

- **Past week accomplishments**

**Kyle Rooney**

Researched and implemented a way to make messages between the bot and student only appear to the student and not the rest of the class. Also took time to go through the entire code base and write comments for nearly every single line. Lastly, added notes in specific places for future helpful implementations that Dr. Zambreno could implement if wanted.

**Kristen Nathan**

Worked on finishing Replit integration. Focused my time on trying to make sure the bot could download and compile Replit code. Spent the majority of the time, attempting to debug a Selenium driver profile error. Sophie helped me debug some issues in the program. Worked together as a group to prepare for our second presentation for 492 and organize timelines and priority of tasks to be finished by the end of the semester.

**Cole Mullenbach**

Worked on trying to implement the ephemeral messages with Kyle. We got them to work successfully. Now I have started looking into how we can tweak them to be more useful in our specific bot.

**Patrick Demers**

Implemented additional tests to expand coverage to more functions. Additionally, we discussed with Dr. Zambreno about how he would like to load questions into Algolia. We came to the conclusion uploading a JSON file would be easiest, thus I setup Algolia to pull from a hosted

JSON file once per day. This eliminates Dr. Zambreno's need for a management interface and keeps the data defined in one place.

### **Sophie Waterman Hines**

Completed the login Replit function with fixed delay times for page and element loading. Worked more on the implementation the link download function, and ran into some problems using the firefox webdriver (gekko). The gekko driver fails to be verbose or create a logs file when instructed (which I think is most definitely a permissions issue!) Also worked with the group on our second midterm presentation.

- **Pending issues**

Creating the Selenium profile needed to download student code currently returns an error message about profile capabilities.

Gekko driver fails to be verbose.

- **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	Ephemeral message implementation	6	36
Kristen Nathan	Working on code for downloading Replit code.	10	35
Kyle Rooney	Updated comments and implemented hidden responses.	6	41
Patrick Demers	Writing unit tests, setup Algolia to pull from JSON	8	44
Sophie Waterman Hines	Finished Replit login and worked on Replit downloads.	12	41

- **Plans for the upcoming week**

- Sophie Waterman Hines: Finish Replit discord bot implementation.
- Patrick Demers: End to end testing, final implementation, and fixing any bugs.
- Kristen Nathan: Finish implementation for downloading and compiling student code from Replit
- Kyle Rooney: Work with the rest of the team to bring together all of our individual contributions.

- Cole Mullenbach: figure out how to use ephemeral messages better in our bot bot.

- **Summary of weekly advisor meeting**

Met with Zambreno to talk about the current project status. We were able to demo new bot functions, including the bot being able to automatically login to Replit. Discussed the handoff process at the end of the semester and asked about necessary features needed for this.