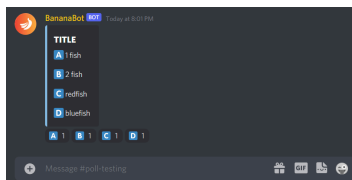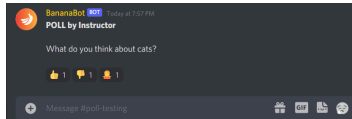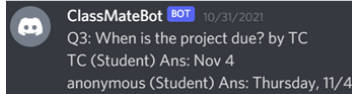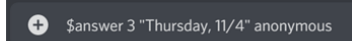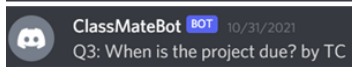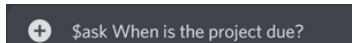# Class-Mate-Bot

Group 36
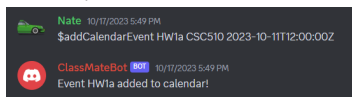Nico Field, Biruk Tadesse, Riley Joncas

Why Class-Mate-Bot

- Easily keep track of assignments, grades, groups, and more, all through Discord, a platform many students are already familiar with.
- Give quizzes or polls, ask anonymous questions, create project groups.
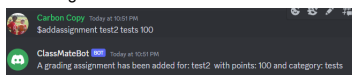

- Question and Answer: Students can ask questions, either anonymously or not, and receive answers and feedback from both instructors and their peers!
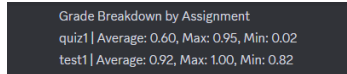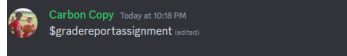

- **New feature: Calendar.** Maintain a class calendar, with integration for Google calendars, so students can stay up to date on assignments and other important deadlines!
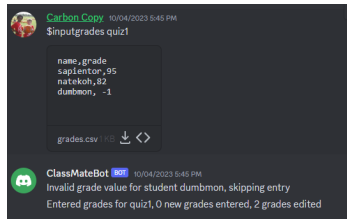

- The bot will also check the calendar daily, and ping server members to remind them of what is due that day.
- Calendar Events can be checked both in the discord server, and also on Google Calendar. There is also an option to download the current calendar in .ics format to import it to your calendar app of choice.
- **New feature: Assignments and Grading.** Instructors can now add grade categories, and provide grades for assignments! Along with this, students can check their grades, which will help them keep on track to earn their desired grade!

- When asking the bot for a grade report, it will send you a direct message to ensure privacy.

- Grading assignments: The instructor can add grades for individual students, per assignment!
- This will allow students to then view their grades on the assignment, and use features such as calculating the grade required on other assignments, viewing grade report, etc.

Tech Stack

- Class-Mate-Bot is written and tested entirely in python, and uses PostgreSQL for the back end.
- Speaking of testing, Class-Mate-Bot comes with over 30 unique test cases for various features of the bot!
- Tests are written using pytest, along with dpytest, a package used for testing functionality within discord bots!

Demo Video

Click the link or scan the QR code below to view a live demo of Class-Mate-Bots features, new and old!

https://youtu.be/6vqUqWLMzKI

Future Scope

Make Q&A section more legible
- While having a question and answer feature is very useful, in its current form, it can be hard to parse the various questions and answers, especially when there gets to be a very large number of questions.
- To that end, we would like to see this feature refined, so that it is not only easier to distinguish between parts of a message, but also between answers from and student and answers from a professor, for example.

Add assignments in bulk
- As it currently stands, the professor must input assignments one by one, which can get very tedious, especially for classes with many assignments throughout the semester.
- A proposed solution would be to add the ability to import assignments in bulk, either by having multiple assignments added in one command, or by giving the option to upload assignments in, say, a CSV file. This could be accomplished by attaching the file to the message when giving the bot a command.

Extend the review questions functionality for bulk importing
- Once again, this improvement revolves around making importing something of a known format easier for the end user. As it stands, review questions and their corresponding answer must be added one at a time, making the process very tedious.
- This would be another great use case where the bot could be given a CSV file containing the questions and corresponding answers, and add them all to the database.

Add a section for frequently asked questions
- While the Q&A section makes it easy for students to ask specific questions, there are some questions that may be asked repeatedly which will end up crowding the channel unnecessarily.
- To resolve this issue, we would like to add a feature where the instructor can post frequently asked questions and answers.
- This feature should allow for bulk importing and individual adding of questions to make adding questions less tedious.

GitHub Repo

https://github.com/maddaicita/ClassMateBot-1.1/tree/main