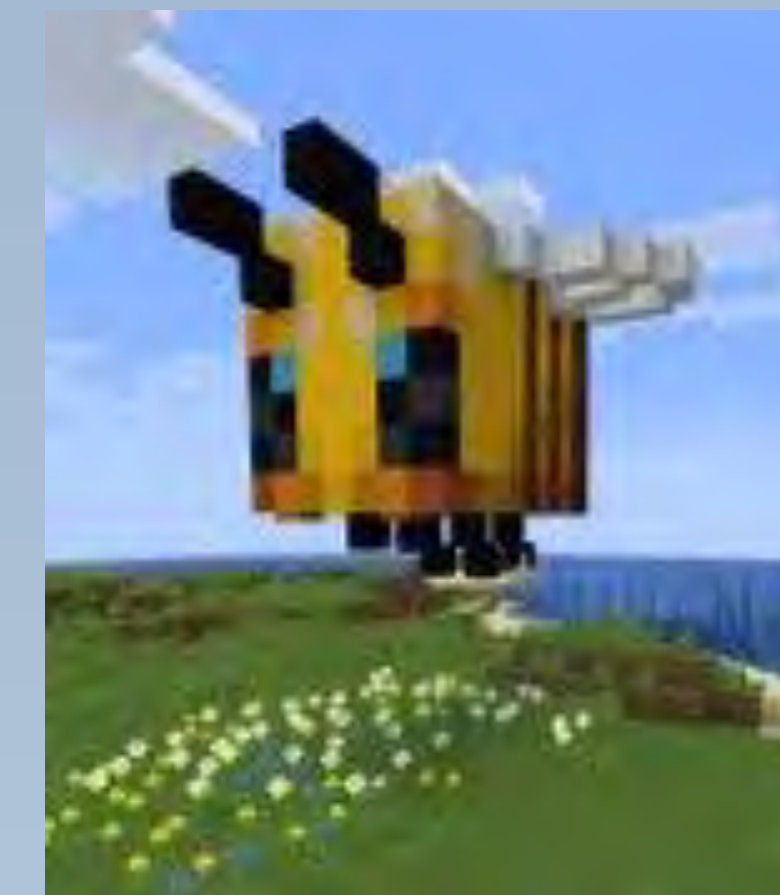


# BBBE BOT

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## PROJECT OVERVIEW

BBBE is an AI bot programmed for students by students. Sometimes interaction with Canvas can be a bit of a hassle. This bot was created with the purpose of being a more “user friendly” bridge that allows students to better manage their everyday classes and schedules. It utilizes many tools that most students commonly use. Anyone with classes registered through Canvas is capable of using this bot, but this bot focuses to help those with task management issues.

## FEATURES

- Class Notifications
- Class Statistics
- Notification Frequency
- Scheduling
- Assignment Notification
- Grade Calculator
- Grade Display
- App Accessibility
- Notify User

## DESIGN

- **Canvas Acct:** The Canvas account of the user. The most important component that is needed from the account is the token. It acts as the ‘key’ to all the user’s data. The bot cannot retrieve any information from the Canvas API without it.
- **Student:** A student is basically the user itself. A student has a Canvas account and is enrolled in different courses. The student has a Discord user ID and is a member of a Discord server.
- **Course:** A course is enrolled in by a student. Each course can have multiple students enrolled in it. It contains information like the ID, meeting time, and grades. Each course has multiple assignments.
- **Assignment:** An assignment is created by a course. It has a name, a due date, and a grade. Many assignments can be a part of a single course.
- **Bot:** The bot is referenced or added by a student and is a member of the Discord server. The bot keeps a collection of student/token pairs to make calls to the Canvas API and return accurate information to the student.
- **Discord Server:** The Discord server contains 1 bot and many students. It is the platform where the students and the bot communicate through messages.

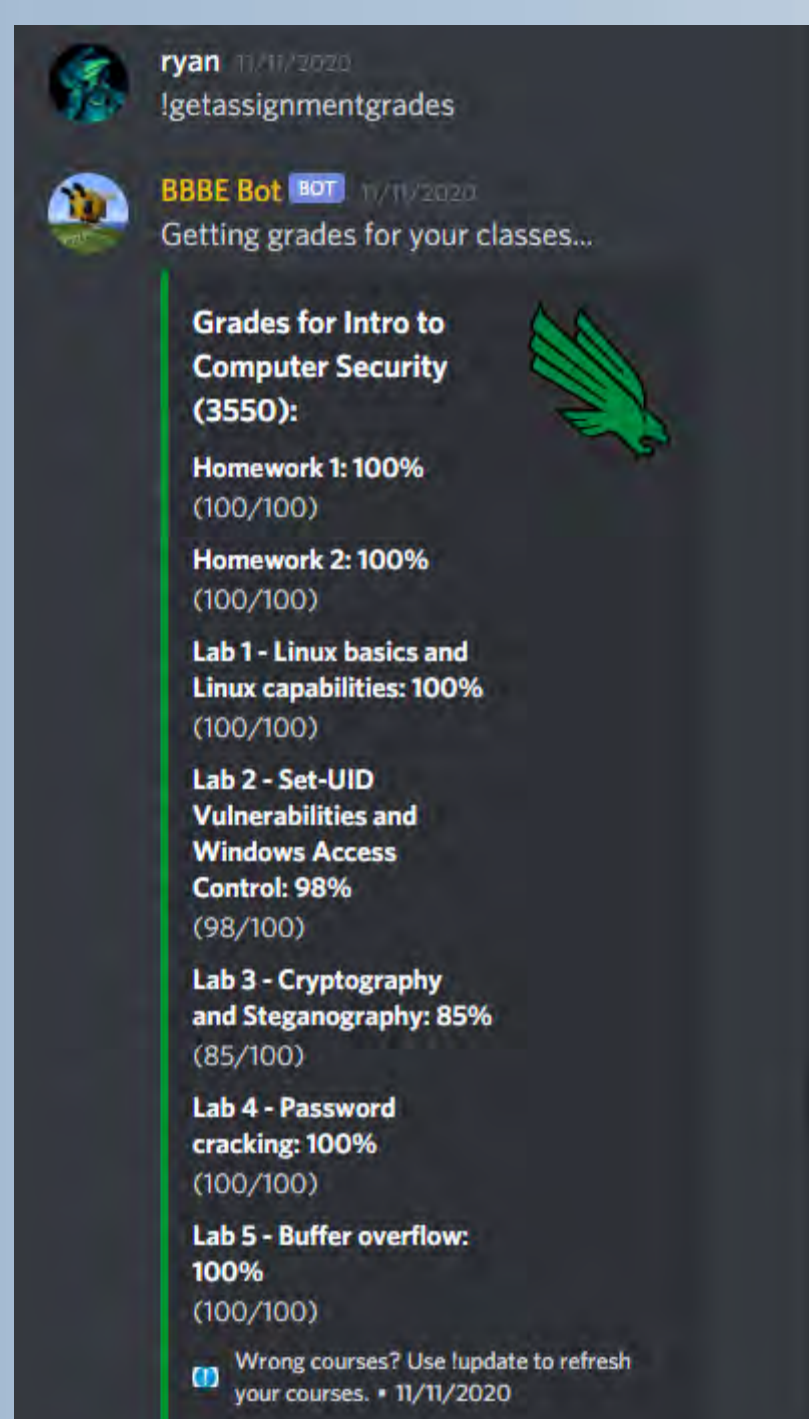


Figure 1: Get grades command being ran

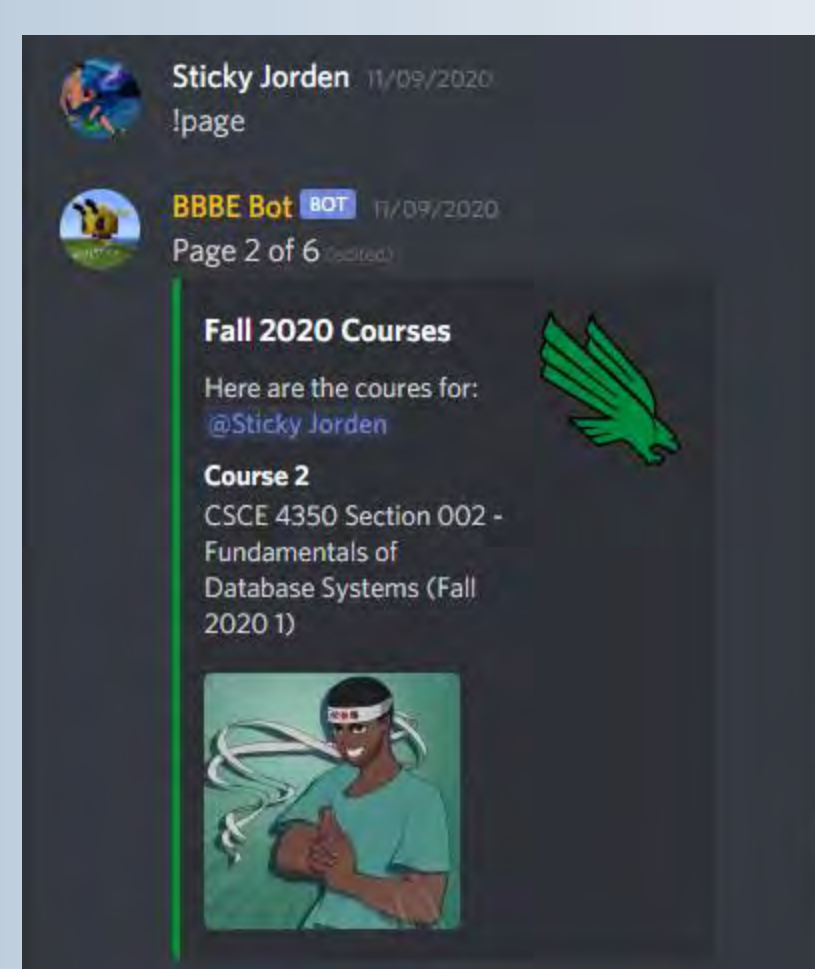


Figure 2: Example showing embeds for a more convenient use

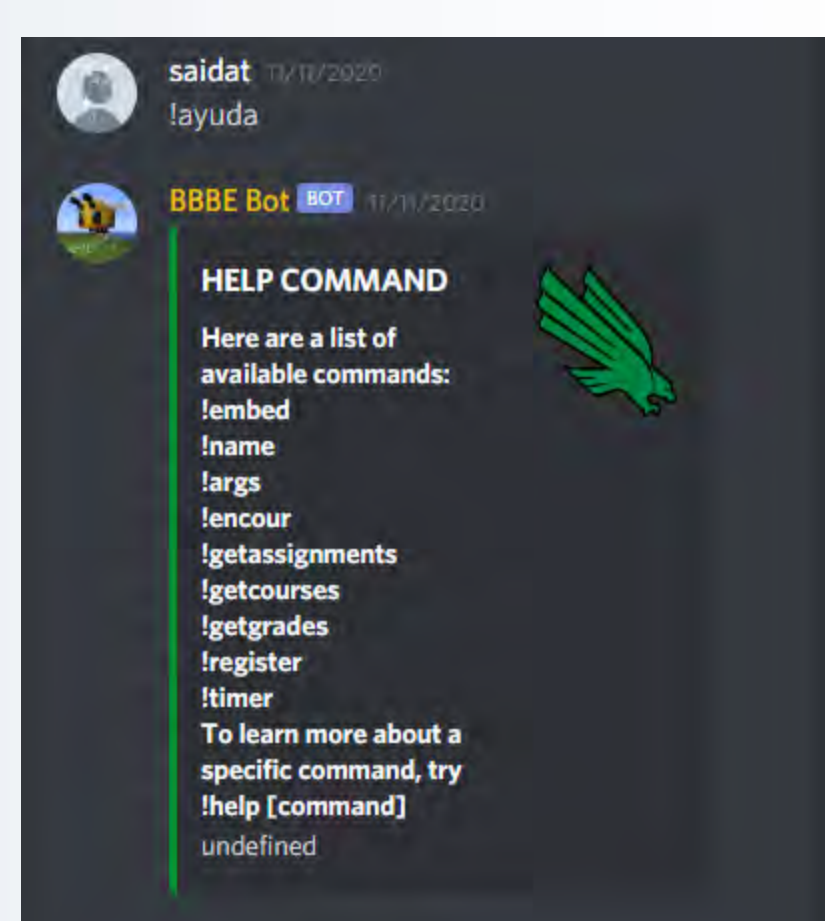


Figure 3: Example of help command being used

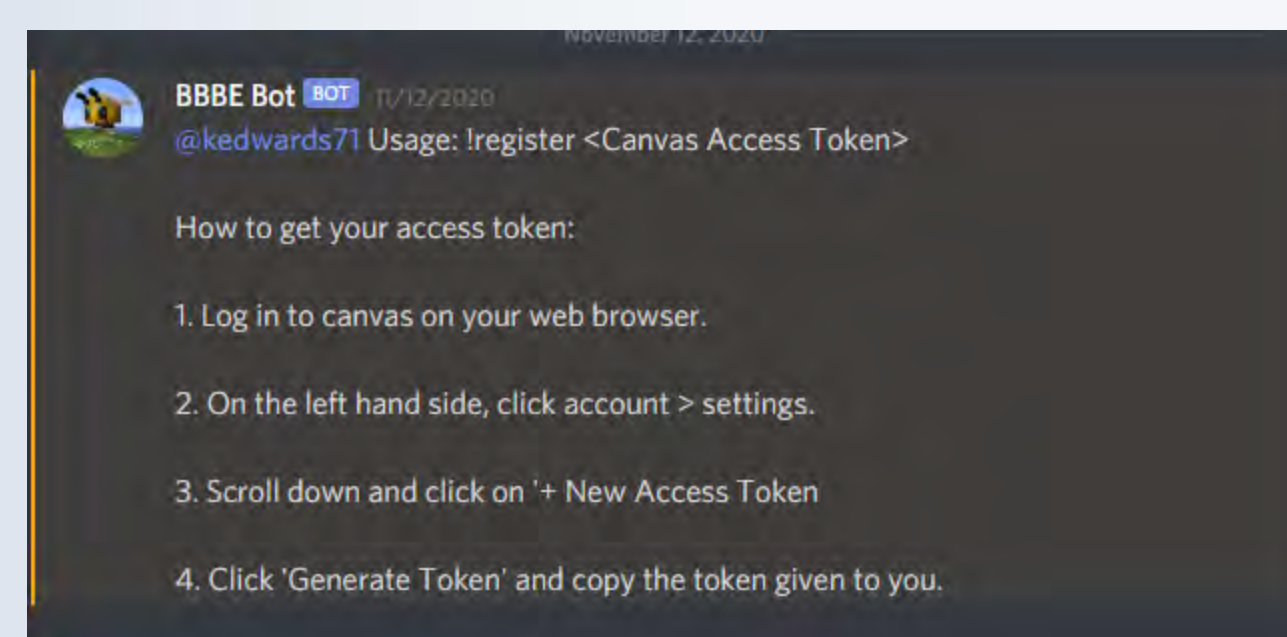


Figure 4: Example of usage message displayed when a command is improperly used

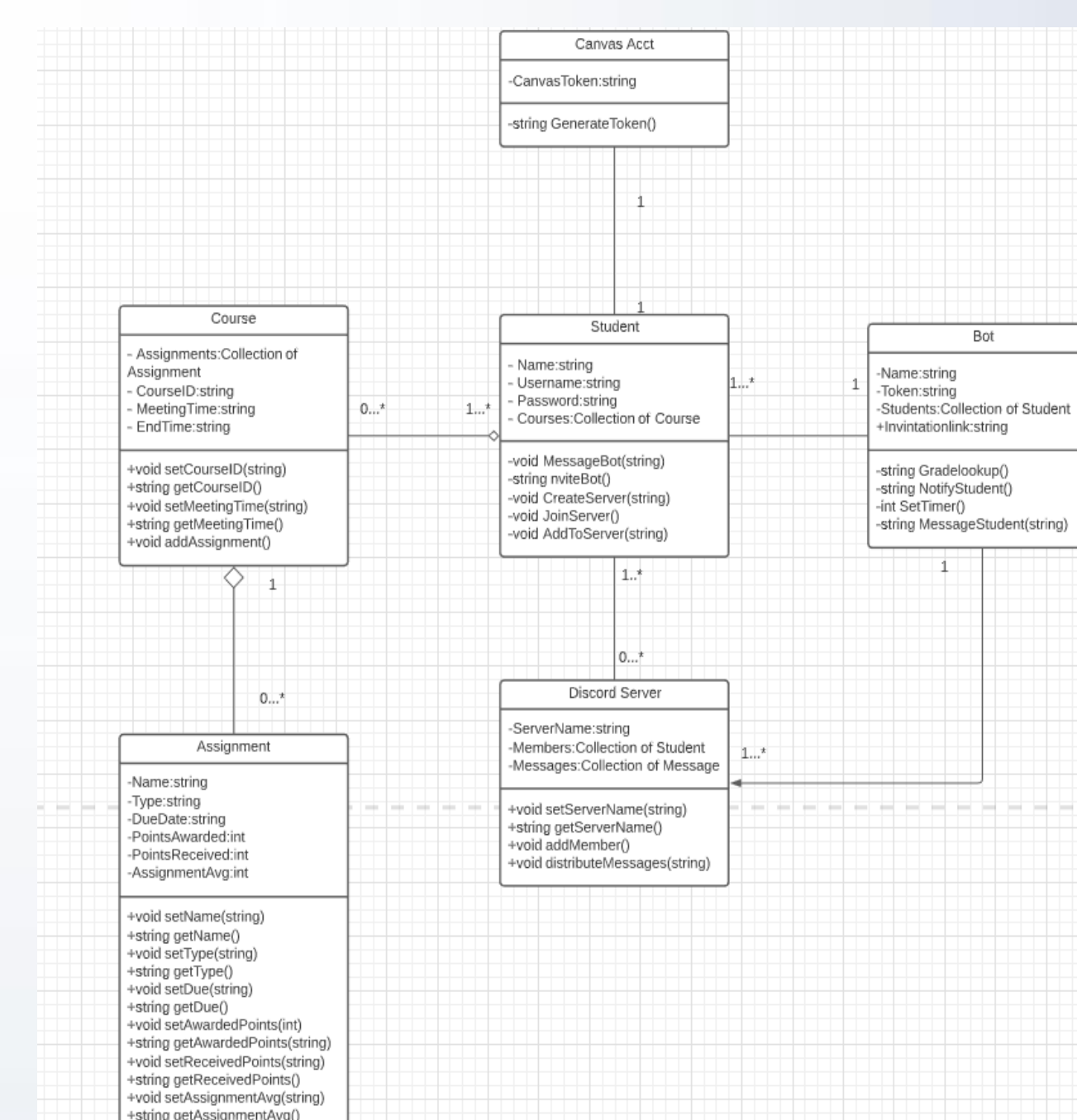


Figure 5: Class diagram

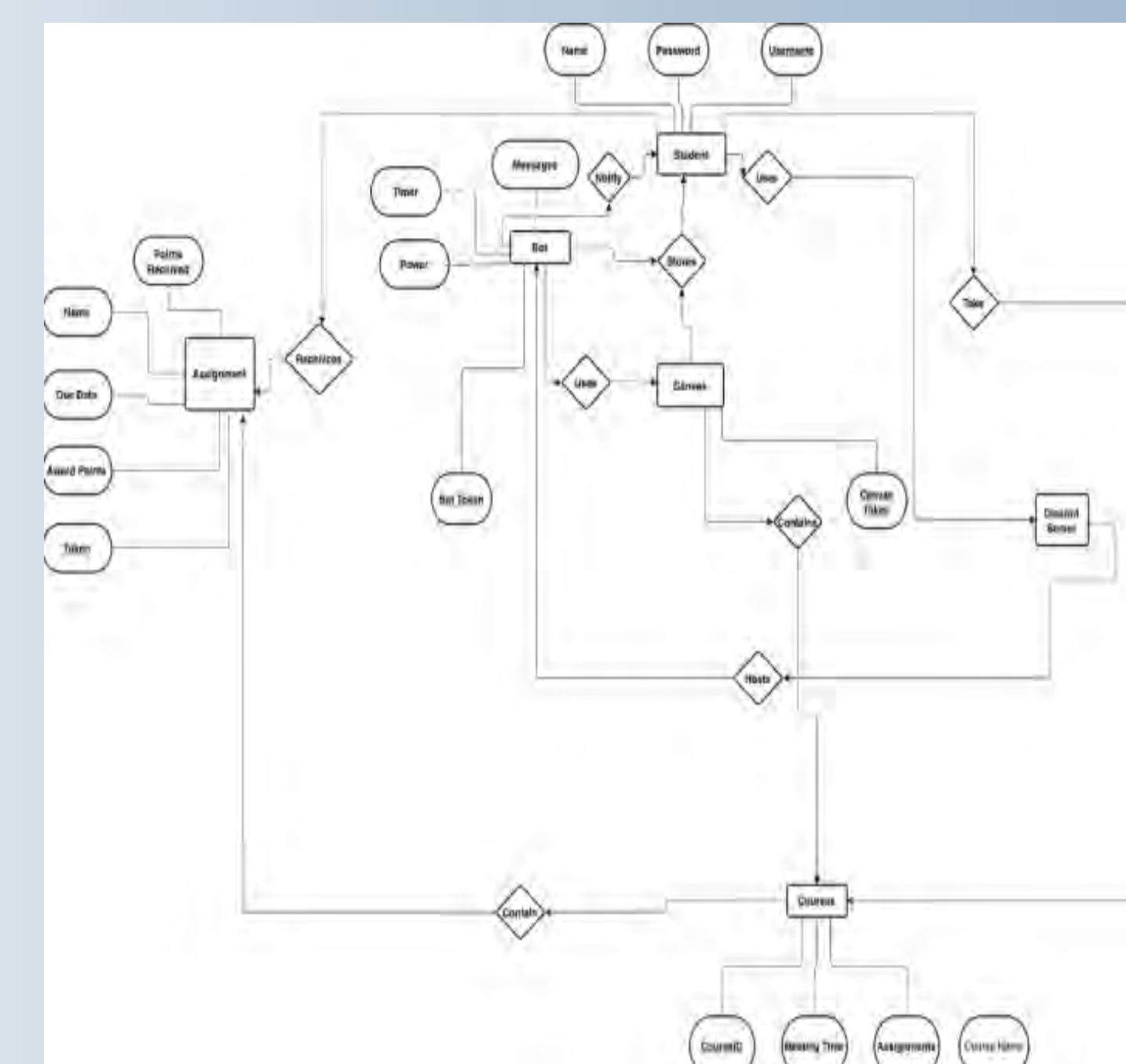


Figure 6: ER diagram

## MATERIALS AND METHODS

- Canvas integration possible through API calls
- User data stored and assigned unique keys through JSON files
- Visual Studio Code used for main development
- GitHub used for version control
- Trello used to assign and split up work
- Bi-weekly team meetings held

## Technologies



## Testing

- Mostly manual tests were done
- A test Discord Server was created to communicate with the bot
- Our current Canvas accounts were being used for information retrieval
- Created Discord and Canvas accounts