

6/01/2022

Team name: Super Power Rangers

Team member names:

- Ryan Chow (Product Owner)
- Timothy Ding
- Randy Kim
- Ferdinand Adell
- Justin Leung









Introduction to Roommate Helper

- Motivation
 - Personal issues in a roommate situation
 - i. Lack of venmo
 - ii. Way to keep track of who is on garbage duty
 - iii. Decide on places to eat
- Intended users
 - Roommates
 - Discord Users









Goals

Achieved

- Scheduler
- Debt tracker
- Polling system
- Weather forecast
- Finding locations of interest
- Rule board
- CI/CD to Microsoft Azure







Biggest Challenges/Accomplishments

- In Development
 - Learning APIs to implement features
 - Working around different options
 - Pickle vs SQLite
- For the final product
 - We met our MVP requirements
 - Added additional features (ie. music)

DEMO - Debt System













DEMO - Lists



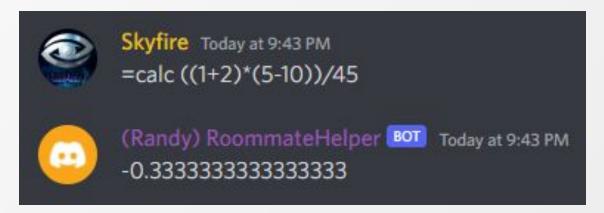






DEMO - Calculator









DEMO - Coin Flip





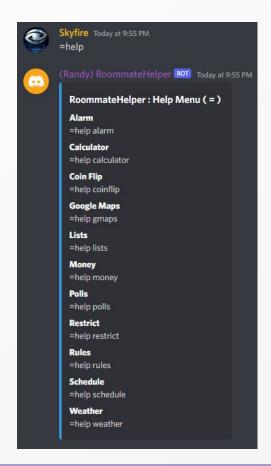


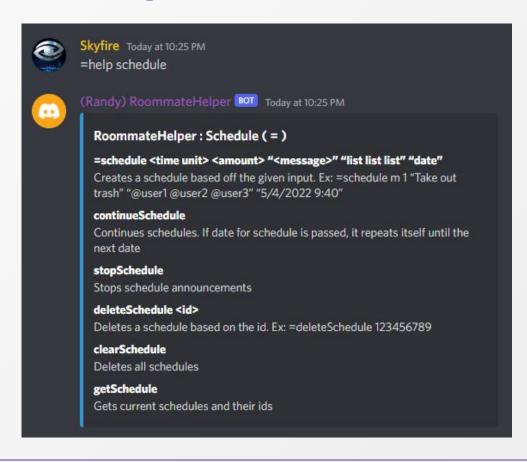






DEMO - Help Menu



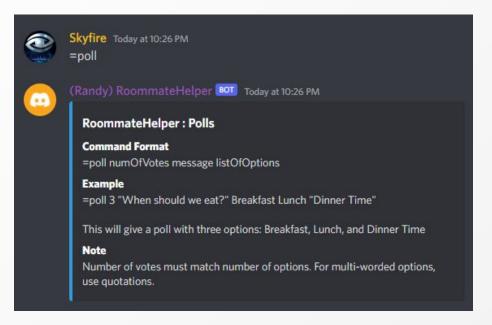








DEMO - Polls



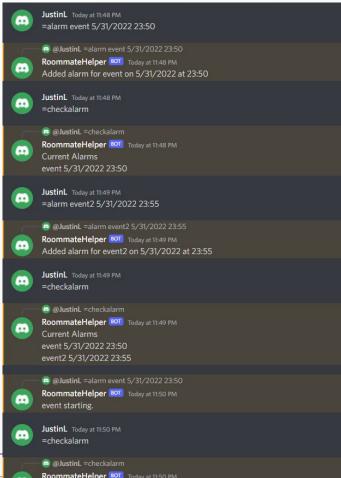


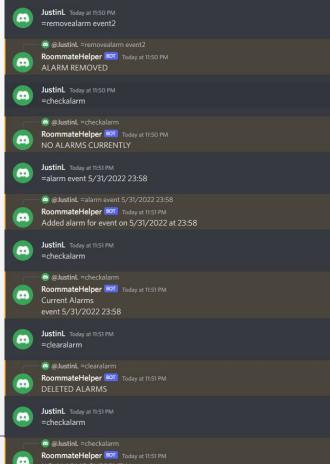






DEMO - Alarm







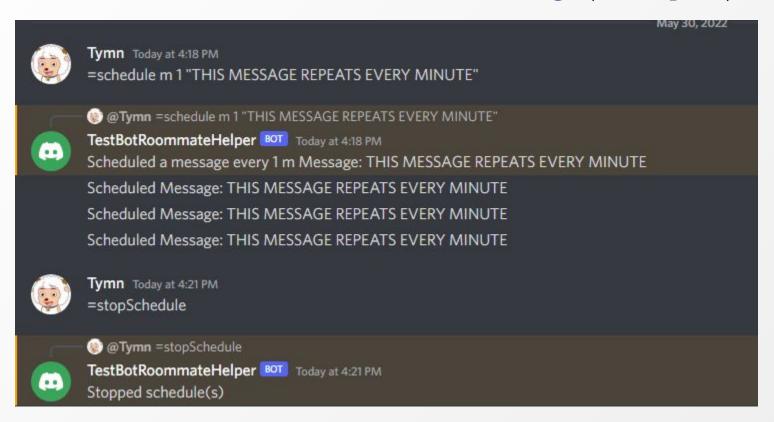






Demo - Scheduling (Simple)

MISC









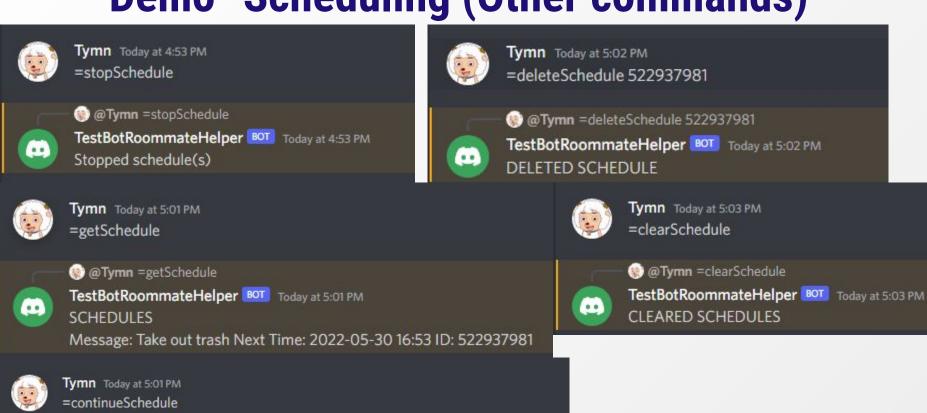
PRO.JFCT

Demo - Scheduling (Advanced)





Demo- Scheduling (Other commands)



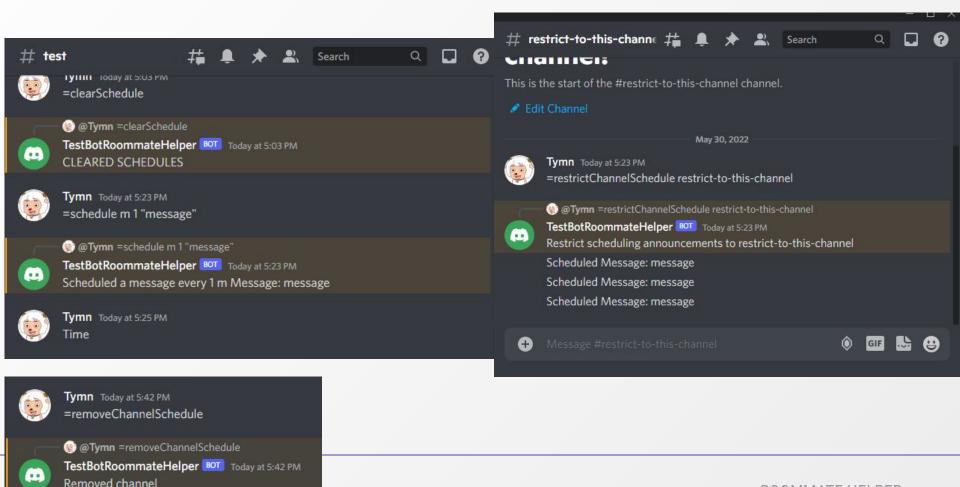






TestBotRoommateHelper BOT Today at 5:02 PM Scheduled Message: Take out trash Ferdinand

Demo - Restrict



Demo - Rules







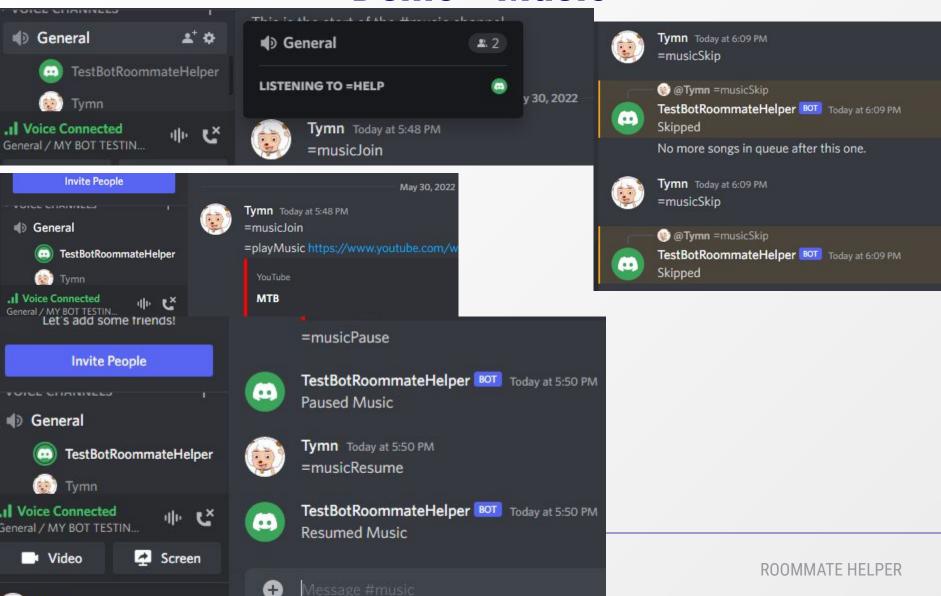






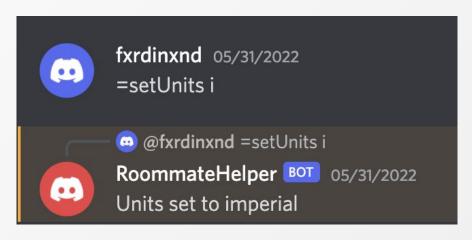


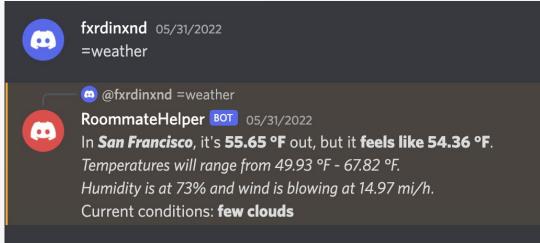
Demo - Music



Demo - Weather Forecast





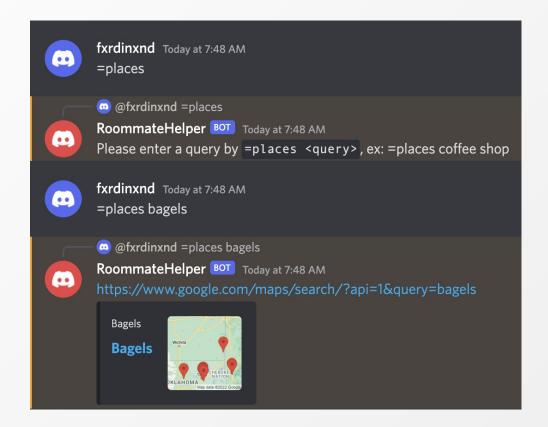






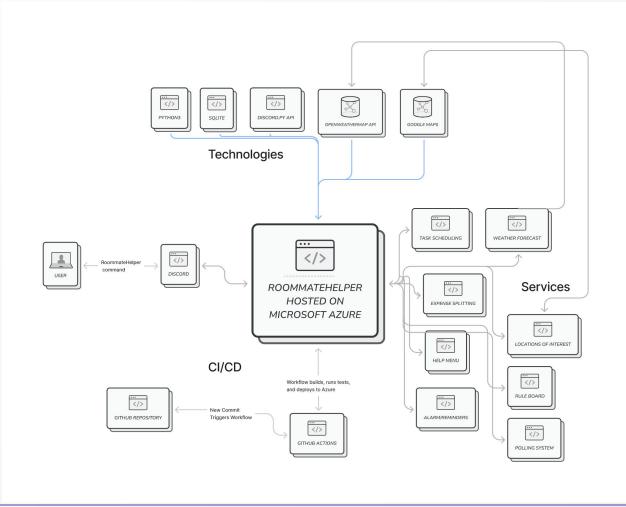


Demo - Locations of Interest





System Overview











Python 3

Pycharm/VS Code

Discord.py API

Unittest

Main programming language for the bot

IDE for testing and programming

API for programming the bot

Python library for unit testing

Weather API

OpenWeatherMap API for accessing weather data

Google Maps

URLs for accessing map data

SQLite

Database for storing information

Microsoft Azure

Hosting our bot

Github

DevOps: source control, project management tools, and CI/CD pipeline









Project Management Techniques

- Scrum
 - o 2 scrum meetings a week
 - Used Github Projects for scrum board
 - Meetings hosted in Discord voice chat
- Github
 - Separate development branches for each person
 - Code reviewed by another developer to merge into main
 - o Github Actions to create a CI/CD pipeline to deploy to Microsoft Azure









Things We Did/Didn't Enjoy

- Enjoyed
 - Applying scrum techniques
 - Kanban board (Github projects)
 - Adding features into our bot
- Didn't Enjoy
 - Writing unit tests (but they're necessary!)









Lessons Learned

- What worked
 - Using discord as the communication hub
 - Github
 - Project board/Code management
- What didn't work
 - Missing meetings often
- Things you wished you had done
 - Research and plan architecture design more before investing time in a more basic design
 - Ex: Pickle





TECH

MISC

Thank you





