

Project Proposal

Dylan Crockett and Zinedin Bautista

Professor Alex Lai

University of Advancing Technology

Software Engineering Principles

September 23, 2019

Description:

Discord is a freeware VoIP and messaging service that many people use to organize teams, events, and other groups as well as for one on one conversation. Discord allows for the use of third party agents called bots, which users can use for a variety of tasks or applications. The goal for this project is to create a chess bot, that allows the users to challenge each other in the logical game of chess.

Not only should the bot agent allow the users to set up a game of chess, but the bot should also have a help feature to help users navigate and manage the chess bot. Ideally, the actual game of chess should appear on a different website where the users can interact with chess pieces by clicking and dragging the chess pieces.

This Discord bot will be named the Chessinator or just Chess Bot. The Discord bot project will be programmed with Python using PyCharm as the integrated development environment. Also, throughout the project, we will be using Github as our source of tracking and distribution version-control system. We will also be using Flask, which is a micro web framework written in Python. The reason for using Flask is to develop a micro web framework where the actual game of chess will be played, which will mean that a different website will open, which will contain the chessboard and chess pieces. This will also allow the players to click and drag each chess piece through the game board.

Features:

1. Have a help command which shows you how to use the chess bot.
2. The user can challenge another user in a game of chess by having the chess bot send an invite message with a link towards the other challenger and a link to play the game.

3. Display the chess game within a website.

Technologies:

- Python 3.7
- Flask
- PyCharm
- Github
- Discord API

Sprint Plans:

* The current plan as of now is to have a feature implemented by each sprint.*

* Disclosure: We had to change project idea through the second spring. *

Sprint #1 Plan: ~~User can link their google account to the discord bot and interact with Google Calendar through a Discord bot.~~

Sprint #2 Plan: Have a help command which shows you how to use the chess bot. And have the user challenge another user in a game of chess by having the chess bot send an invite message with a link towards the other challenger and a link to play the game.

Sprint #3 Plan: Display the chess game within a website with a clean UI.