

Community Contribution Tracking System

10th July 2019

OVERVIEW

This project's purpose is to address the need for a means of tracking and fostering community engagement. This will involve a bot that reads posts and reactions on the discord server and awards points to users based on their interactions. There will be admin access to the bot logs and database information.

GOALS

1. Construct a bot capable of monitoring interactions on a discord server and awarding points to users based on those interactions.
2. Create an administration dashboard for the bot and its associated database.
3. Implement some means of limiting the ability of users to game the bot.

Tech Stack

MongoDB will be used to make a database to ensure data persistence. A database API will be formed using Express. The administration dashboard will be rendered using React. The Discord Bot will be made using Discord.js in Node.js with a connection to the Discord app API.

Core Features

Discord BOT

Have a working bot that gives users points for posts based on the number of reactions they receive. The bot should be able to be called by users to check their points.

Administration Dashboard

Access to the bot activity log, user list and user points. Ability to add and deduct points from users as well as the ability to delete and add users.

Point based point system

When the bot detects a new reaction the server it should apply a multiplier to the points the bot awards. The multiplier is based on the points of the person reacting. This limits the effectiveness of fake accounts at gaming the bot.

Potential Extra Features

Discord Login

Discord based login on admin dashboard. Checks if the user has moderation privilege on the discord server and give them access to the admin dashboard if that is the case.

Adjustable Bot Parameters

Through the admin dashboard, it will be possible to adjust the factors that affect the point based point system. The complexity of this system will be determined by the final design of the point based point system.

Disclaimer

This project is being conducted pro bono as part of an assessment for Coder Academy. As such, the source code for this project along with all assets used within are by necessity not confidential. Upon completion of the project there is no obligation of the client to use or display all or any of the work completed nor is there any obligation or guarantee that the work completed will be functional or of a usable quality.