MAPLEBOT PROJECT PROPOSAL

Team Member Information

James Vu is the only team member working on this project. He is a second-year computer science student at California State University, Fullerton. He is knowledgeable in C and C++. He has minimal knowledge of Python, shell scripting, and NASM assembly. He self-learned some JavaScript and read through Discord.js documentation to make MapleBot.

Overview

MapleBot is a Discord application. MapleBot is a Bot user account that can be added to a Discord server. MapleBot is written in JavaScript. Discord.js is the main library. It uses Node.js to run. It is built by James Vu. MapleBot contains functions that clean up messages, clear all messages that are 14 days or newer, display examples of commands, display a greeting message, display a help page, and return the ping or reaction time from the server.

Goals

MapleBot's main goal is to make the bot functional and running on a Discord server. After that main goal is achieved, its goal is to have it run functions that clean up messages, clear all messages that are 14 days or newer, display examples of commands, display a greeting message, display a help page, and return the ping or reaction time from the server.

Resources

MapleBot uses Discord.js which is a powerful Node.js module that allows you to interact with the Discord API very easily. Discord.js is licensed under the Apache License 2.0. Discord.js allows MapleBot to interact with Discord without it, MapleBot has no functionality. The Discord.js website can be found

at https://discord.js.org/#/. MapleBot uses Node.js which is JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js is used to run the JavaScript code that contains all of MapleBot's commands and functions. Node.js runs the bot account when it is connected to Discord. The Node.js website can be found at https://nodejs.org/en/. MapleBot uses the npm software which is a package manager for JavaScript to install all of its dependencies such as Discord.js. The npm website can be found at https://www.npmjs.com/.

Usage

Discord.js is mainly used to connect to the Discord server and to interact with the Discord API. MapleBot uses a lot of Discord.js functions and classes such as:

- Client - to interact with the Discord API

- Send - to send messages to the Discord channel

- fetchMessages and bulkDelete - to fetch messages from the channel and delete them

- Reply - to send a reply message to the user

Node.js is used to run the code. It uses "node bot.js" in the Source folder to execute the code.

NPM is used to download the Discord.js dependencies with "npm install --save discord.js".