Team 25 Project Charter
Wild Card Bot

Team Members:

Konstantin Liehr, Arun Thirumavalavan, Nikolas Damalas, Kyle Arrowood, Michael Gu, and Matthew Wang

Project Title: Wild Card Bot

Project Statement:

Although there are many Discord bots out there, most only serve a single purpose or function in a Discord server. This leads to some servers having a swarm of various bots for all the different functions they need, mucking up the user lists with bots and requiring users to know the specific syntax and setup for each bot. Wild Card Bot will solve this problem by being a modular bot with the ability to add new functions made by anyone fast and easy. It can moderate your server, play music, or anything you want it to if you make the right function.

Project Objectives:

The overall project objectives include developing a discord bot that contains basic moderation tools as well as roles and permissions management. Additionally, the bot will have the ability to adopt new functions and features created by anyone, allowing users to customize their Wild Card Bot for the needs of their server.

- Build a Discord Bot, called the Wild Card Bot, using Python and the Discord REST API that will feature basic moderation tools to manage discord servers, including chat moderation, managing roles and permissions, and managing channels in the server.
- Design the Wild Card Bot to utilize modular design so that it can be compatible with external modules (functions). Such modules can be made by anyone and uploaded to the bot via file sharing in discord or in the functions folder of the bot.
- Develop a variety of functions to add to the Wild Card Bot, such as playing music, coding manual documents, working with specific video game APIs, google search bar, voice interaction with the bot, and a decisions maker in order to show the possibilities of what functions users can create, add, and share themselves.

Stakeholders:

Users: Users include Discord users looking for a Discord bot that includes features crucial to the automation and assistance of a Discord server, as well as other Discord bot developers looking to expand upon the provided functionalities.

Developers: Konstantin Liehr, Arun Thirumavalavan, Nikolas Damalas, Kyle Arrowood, Michael Gu, and Matthew Wang

Project Manager: Ian Ryan

Project Owners: Konstantin Liehr, Arun Thirumavalavan, Nikolas Damalas, Kyle Arrowood, Michael Gu, and Matthew Wang

Project Deliverables:

- The base Wild Card Bot that is built with Python and the Discord REST API. It contains basic moderation tools (chat moderation, spam protection), role/permission handling, and channel creation.
- A modular function system allowing the Wild Card Bot to add and remove functions written separately by either dragging function files into and out of the bot folder or uploading/deleting function files directly into discord via command.
- Documentation for the bot and its modular function system so that users and other developers can easily set it up and create functions.
- Extra functions to show the flexibility of the modular system: a music player (using YouTube), a decision maker, a google search function, a code manual docs function, voice recognition/processing function (Amazon Alexa API), and game statistics/information via the Steam or Riot API.