Instant Messenger Moderator Bot

Team 2: The Voltron Brigade Tristen F., Cooper T., and Hudson D

SECTION I: INTRODUCTION

We have built a moderator bot for Discord, a VOIP/ instant messenger application. As daily users of Discord, our group wants to create something that we believe could be improved upon. We have handled discord bots from a user perspective, and we know many shortcomings that exist with current bots. Some bots have limited functionality, while others have not been well maintained and are incompatible with the current version of Discord. To summarize our results and conclusions, our bot is considered a success, with its planned functionality working well considering the time frame. Given more development time and possibly more team members the script could be more fleshed out.

SECTION 2: CUSTOMER VALUE

There again were no changes to our customer value. (see proposal)

SECTION 3: TECHNOLOGY

The goals after the minimum viable system (moderator functions) was quality of life functions and going back and streamlining the current code we had. We wanted to have fewer more-secure functions than more less-secure functions. Currently what works is every function we have. We would not push any non-working functions. However the swear filter is less strict than we would like, if for instance the word "hello" is banned, h**e**ll**o would pass through the bots filter when HeLlO would not. Case does not matter so HeLlO would get removed. For testing we 3 have separate private servers where we each test our bot. I also have a public server where I had the bot stay for ~1 week and let some users mess around with the functions. The results show that the bot needs a few more functions and usability fixes (more so for the users) but the bot functions as a medium for the regular users to utilize moderator functions without giving them the power directly. (Please see section seven for examples of our bot functioning)

SECTION 4: TEAM:

The roles for this team stayed the same as we originally had planned, with Tristen being the main "manager" for hitting deadlines during the week. Other than that, we kept an equal level of responsibility when it came to developing. If we got stuck with a feature, we'd push to the branch we were working on and begin work on another. We don't expect the roles to switch up really, we kind of keep each other in check during the week but the reminders from Tristen are helpful. Cooper did more in the area of quality assurance, such as testing reliability, documentation, and finding issues in the code. Towards the beginning of the project, Hudson helped in finding and sharing resources for beginning coding in Python and the Discord Bot API for Python.

SECTION 5: PROJECT MANAGEMENT:

We did not complete as many "fun" functions as we would have liked to, but we did finish the majority of our moderation and quality of life functions, even though they are not as refined as we might like. Overall our main hindrance was the transition to online classes, which led to less frequent project meetings and added stress in other courses.

SECTION 6: REFLECTION

The creation of the bot and the start of the project were strong. As work progressed, we were able to implement more features separately, asking for help only when progress would slow. This allowed us to implement almost all of the features for our first few sprints. The further we delved into the language and the API for the discord bot, we learned that they were not the best choice. This was because they lacked the strength to implement features as effectively as just using a language we were already familiar with. If we could have made a change, we would instead have chosen the Javascript module for Discord Bots, which seems to make some of the things we wished to do a little simpler to achieve. Overall, the project was a relative success. Although it is not perfect, it serves as a lightweight moderator bot for smaller servers, and a bot to give the user base some control over their server (make/delete channels) without directly being given moderator permissions which can be abused (ban, make new rules, new ranks etc.).

SECTION 7: PICTURES: