

# Instant Messenger Moderator Bot

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

## SECTION 1: INTRODUCTION

Overall our requirements and overall design have not changed. Some major highlights include the much needed welcome DM to the user (see figure 3), swear filter, and making of channels. A lot of effort and time was spent on the backbone and converting of the bot framework to use the Bot class instead of the Client class used for functions. This change was not needed at first as many functions overlap, but as we needed more control over the bot, we had to convert previous functions over.

## SECTION 2: CUSTOMER VALUE

There has been no changes to our customer value. (see proposal)

## SECTION 3: TECHNOLOGY

We have written the script in Python and utilizing Discord API library, as well as a Python virtual environment for testing. To run any tests, we host the bot from our own machine locally. From the command line, we run the python script and shortly after can see the bot come online on the server. To get more informative output, we started to implement our functions to output any actions for logging purposes (see Fig. 1). We first made sure the message displayed the name of the server, and other information. Once the bot connected and confirmed such properly, we were able to begin implementing various functions such as translate, ban words, and create a channel. To call any command, you must preface the function name with a dollar sign (\$) (see Fig 2.). This is the symbol we chose for our command prefix, which many bots use to recognize their functions. Following the prefix with the help command tells the bot to display its commands, a small description and usages for each one. As for the next iteration, we wish to make all channels created by the bot temporary and automatically delete after a predetermined amount of time. We are also working on mute, ban, and kick functions, all of which can or will have a temporary option similar to make channel.

## 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 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.

## SECTION 5: PROJECT MANAGEMENT:

From the original proposal, I had checkpoints for week I / II, and week III / IV. This allowed us to slowly increment features and keep check as we did it. However, we are about half a week behind schedule looking at features we should be at by week 4. However, this can be deducted by adding some later roadmapped features slightly early such as translation. The schedule outline has not been changed since we proposed the project.

## SECTION 6: REFLECTION

What went well was early on we got a bot working but later noticed that we were not using the bot class properly, we used a lot of client class code so that meant we couldn’t use a lot of bot features. Fixing this has improved the time it takes to make features work. Also the swear filter works very well, for mixed letter cases for people trying to circumvent the filter. What did not go well has been the add/delete channel functions. The idea was to let people manually delete and add custom channels, however we ran into troubles with the delete functionality so we have not worked on that yet. We will be finishing that next iteration however. I think what we will do differently will be now that we have the overall “moderator” features implemented so we can focus more on updating them, or adding new unrelated features that improve the users quality of life.

## SECTION 7: FIGURES

```
(venv) tfinley3:hydra30 ~/cs340/InstantMessengerBot> python bot.py
ModBot#3955 is connected to the following guild:
BotTestServer(id: 677240594627690511)
translated hello to Bonjour
Banned message from Tristen#0549
Creating new channel: Voltron
```

Figure 1

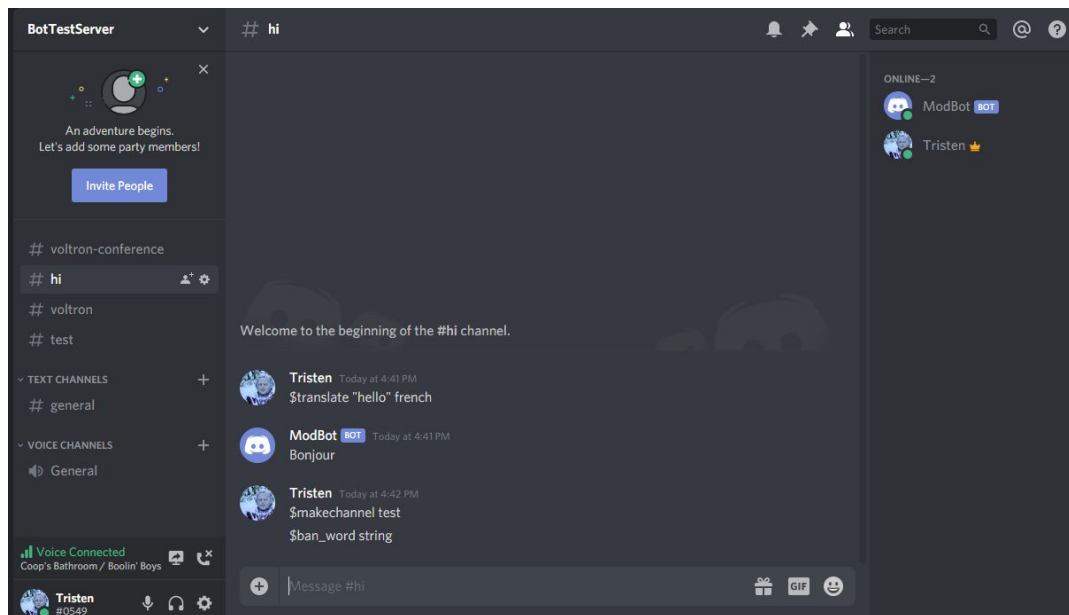


Figure 2

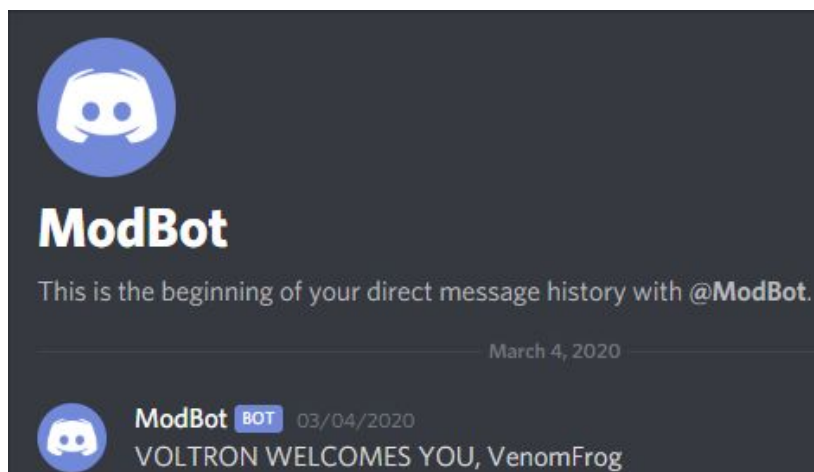


Figure 3