

# Discord Focus Bot

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## ABSTRACT

This document outlines our team's plan to make a discord focus bot. Our bot aims to solve the problem of managing deadlines and tracking code changes effectively in a small software engineering team using discord as their primary means of communication. The bot serves as a versatile tool, providing notifications for impending deadlines and alerts for code git actions made by team members. Our bot is planned to streamline the version control processes and enhance team productivity and collaboration.

## 1 Introduction

The timely completion of tasks and adherence to project deadlines are paramount for success to software engineering teams. Discord can facilitate effective communication; however, this adds to the myriad of responsibilities that software engineers already keep track of. Automating aspects of discord communication will increase team productivity. Deadlines and milestones can be given to the bot to automate reminders. The bot can be configured with git to send notification of git actions like merging and pull requests to eliminate the need for tedious manual communication. The bot should also be able to display a list of deadlines. Lastly notification duration should be configurable.

## 2 Related Work

A Discord bot is a program used to automate ways to remind members of tasks, events, and results of user actions on a Discord server. The Discord focus bot will contain functionality to create reminders and notifications for upcoming tasks and events. An example of a Discord bot with similar support would be Sesh [1]. This discord bot features ways to create events with a single message, links to google calendar, and has poll support. Our project will support feedback from events on a Git repo. Thus, a Discord bot built to support GitHub notifications would be relevant to the project. The bot titled "Discord Bot GitHub" is one such example [2]. This bot allows users to alert a Discord server of activity on a GitHub repo. The Discord Focus bot will allow users to study and perform work via the Pomodoro technique. Users can activate the bot as a Pomodoro timer when needed. There are many Discord bots that offer a Pomodoro timer. One example would be the Lion bot [3]. This bot supports the Pomodoro timer as well as scheduled study sessions.

## 3 Software Engineering Process

Our team will use Scrum management framework to complete our project. We will have daily 15-minute meetings. We chose Scrum as it would break down the project into smaller and more manageable iterations (also known as sprints). This will allow our team to develop improvements to the bot and having sprints will also ensure there are frequent updates to the focus bot. This process also allows for great

collaboration among the members of the team. The meetings will keep everyone informed on the progress of the bot as well as challenges that can potentially arise. An important aspect of the process would be backlog, which is the main source for all the tasks that need to be assigned in order to complete the project. The backlog would contain user stories, features and bug fixes required for the discord bot. In the meetings, each team member will answer three questions: “What did I accomplish yesterday?”, “What will I accomplish today?”, and “What are my blockers?”. Daily meetings will enable us to touch base and understand our progress and near deadlines.

## REFERENCES

- [1] “The best calendar bot for discord,” The best calendar and event bot for Discord, <https://sesh.fyi/> (accessed Feb. 18, 2024).
- [2] D. Falconer, “Falconerd/discord-bot-github: Github repo updates displayed in discord.,” GitHub, <https://github.com/Falconerd/discord-bot-github> (accessed Feb. 18, 2024).
- [3] A. Horesh, “The best discord bot,” LionBot, <https://lionbot.org/> (accessed Feb. 18, 2024).