

High Level Design

Project: Discord Focus Bot

Team Name: The Discordians

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Description:

The discord bot is a user facing application. Users input commands to direct the bot to perform a certain task. The bot needs to react to user input commands in a correct and reasonable manner. Thus, the event-based architecture pattern is suitable for implementing the functionality of the discord bot. A command sent to the bot would act as an event that the bot must handle and produce the desired output. Since the bot will send reminders at specific times and support a Pomodoro timer, it must perform actions when a certain time and date is reached. The discord focus bot can also relay notifications from a git repository to a discord channel. So, it must actively monitor for events that occur on the git repository to then direct to the discord channel. The reaction to user commands, calendar and timed events along with actions on an external website are suitable situations for an event-based architecture pattern to handle. As these events occur, the bot will process the input of the event and output the desired result.