## Low Level Design

**Project:** Discord Focus Bot

Team Name: The Discordians

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The bot can be represented as an object that is allowed to execute various methods. The bot can have a list of task objects and a list of reminder objects. This would be helpful to represent using a structural model of low level design because this model deals with the composition of classes and objects.

## **Pseudocode**

Class Bot {

List<Task> tasks

List<Reminder> reminders

Int pomodoroCount

Int Pomodoro Duration

Int break duration

parseCommand(userInputtedCommand) {

Tokenize userInputtedCommand into command name and arguments

Switchcase for different command names available:

Case: addTask

// create a new task and add it to the bot's task array

tasks.add(new Task(argument 1, argument 2, argument 3))

Case: addReminder

//create a new reminder and add it to the bot's reminder array

Reminders.add(new Reminder (argument1)

Case: startPomodoro

```
StartPomodoro()
       Case: stopPomodoro
       StopPomodoro()
      // to handle invalid command
       print("Invalid command")
       • • • • • • • •
}
Function startPomodoro(){
//if pomodoro timer is not on
If (!isPomodoroOn) {
IsPomodoroOn = true
PomodoroCount++;
// then we start the timer
StartTimer(pomodoroDuration)
} else {
//this is when the pomodoro timer is on
Print("Pomodoro is currently in session.")
}
}
Function stopPomodoro(){
//if pomodoro timer is on
If (isPomodoroOn) {
IsPomodoroOn = false
StopTimer()
// then we start the break session
```

```
Print ("Pomodoro session ended. Take a break!")
StartTimer(breakduration)
} else {
//this is when the pomodoro timer is off
Print("no pomodoro session to stop")
}
}
Main() {
      Asynchronously accept user inputs and send reminders
      While (true) {
       ParseCommand(userInputtedCommand)
       //If reminder time is reached then
             SendReminder().
      //If git action was taken then
      If (gitActionTaken()) {
       SendGitnotification
             }
      }
}
```

## **UML Diagram**

