

# BOT SPECIFICATION SHEET

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## Introduction

This is the Bot Specification Sheet - here every feature and their usage will be documented! The ‘Short Feature List’ offers a run-down on all the general Commands and Events by simply listing them, which can be used to get a quick glance over the whole project!

The ‘Extended Feature List’ will provide a small ‘man’-like entry for each feature, describe how it can be triggered, the passable arguments and the result / purpose of the respective feature! The document will assume that ‘\$’ is the prefix, so commands can be illustrated in a better fashion.



## Short Feature List

### Commands:

- ◇ `help`-command
- ◇ `ping`-command
- ◇ `sudo`-command
- ◇ `whois`-command

### Events:

- ◇ `ready`-event
- ◇ `message`-event
- ◇ `messageReactionAdd`-event

### Services:

- ◇ `config`-service
- ◇ `logger`-service
- ◇ `rate-limit`-service

## Extended Feature List

### Help Command:

*Purpose:* The help command provides information about the currently accessible top-level commands. A short description alongside the command name is sent inside an embed to provide a general idea of what a command does. The reload flag reloads the help message, in order to allow the information to change during runtime in case that new aliases were added!

*Syntax:* `$help [--reload | --help]`

### Ping Command:

*Purpose:* The ping command serves two functions. For the developer the ping command is one of the simplest, so it is used as a code template for further commands, to showcase the Command architecture. The user can use the ping command to detect whether the bot is online at the moment or not!

*Syntax:* `$ping [--help]`

### Sudo Command:

*Purpose:* The sudo command provides a way to execute commands with super user (a.k.a. Admin) privileges. One could use sudo to handle different behaviours of command - depending on whether it was called through `sudo` or not! In the future this command might obtain more meaning, once the permission system is in place!

*Syntax:* `$sudo [--help]` or `$sudo [ping]`

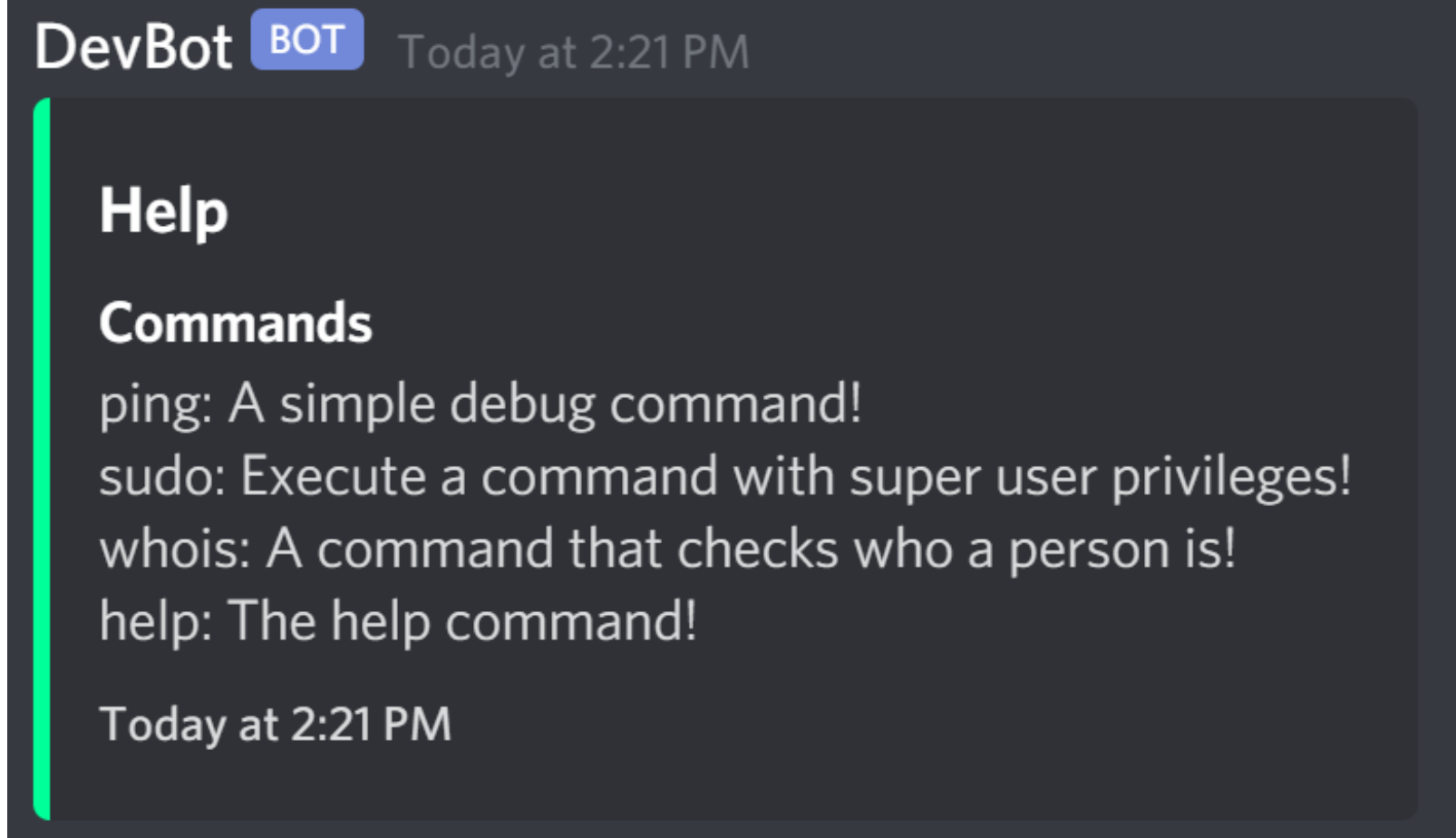
### Who Is Command:

*Purpose:* The who is command sends certain information, such as User Tag, Profile Picture, and similar information about a user once called! It’s ‘image’ flag can be used to only print the image of the user and thus - thanks to Discords Link Parsing show an image of the Person’s Avatar in the Chat!

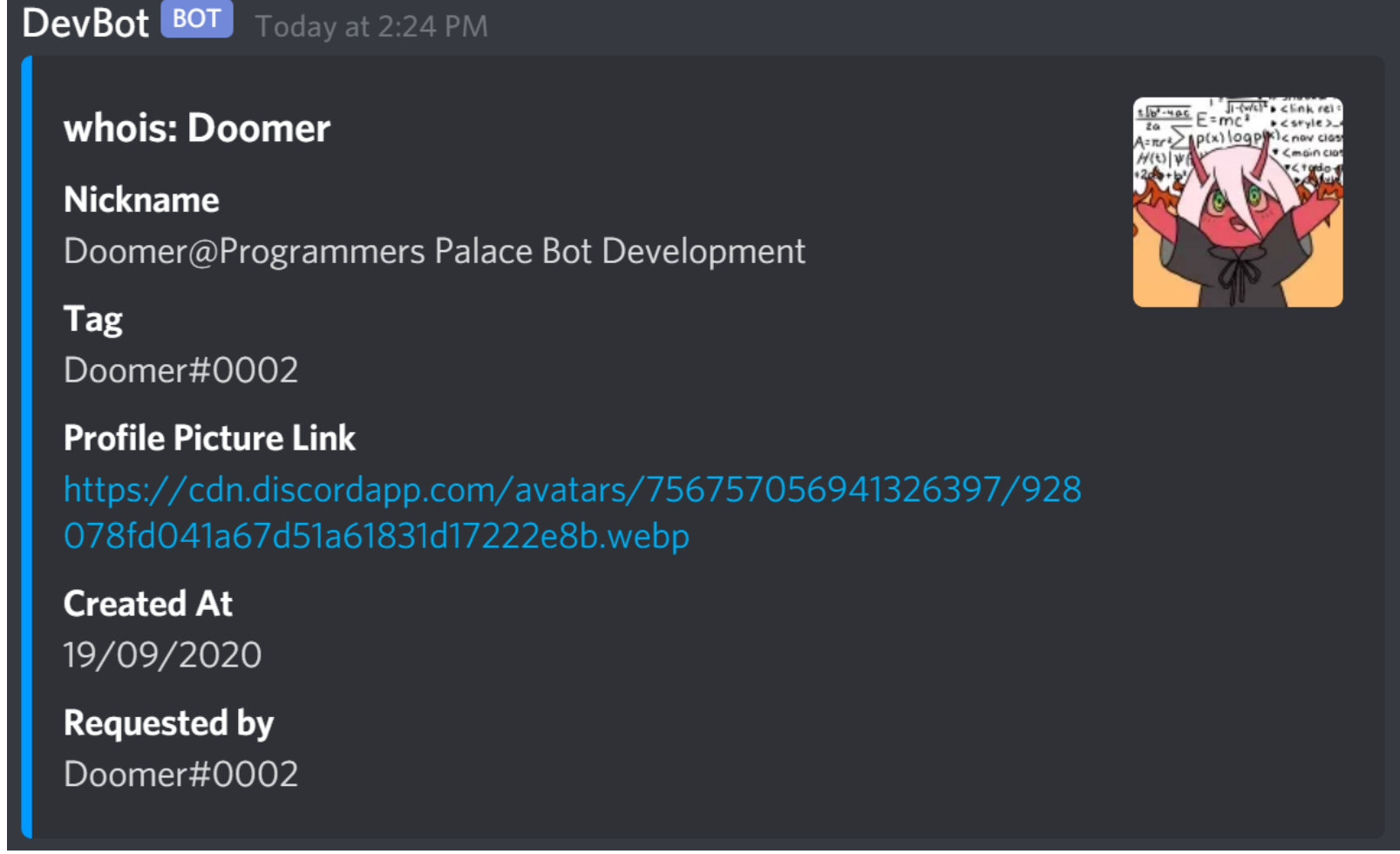
*Syntax:* `$whois [--image | --help]`

## Screenshots

### Help Command:



### Who Is Command:



### Ready Event:

*Purpose:* This event gets fired as soon as the Discord Bot Client logs onto the network! This Event can be used to setup everything that requires the bot to be online, such as cache the prefixes of the servers the bot is in!

### Message Event:

*Purpose:* The message event is responsible for receiving messages and find commands and other important triggers in them! The message event is the base of this whole project, since the bot - as expected of a Discord Bot - is mostly controlled through user input on Discord!

### Message Reaction Add Event:

*Purpose:* This event occurs when a reaction is added to a message (note: the bot had to be online when the message was sent for it to work!). This event is used by this Bot for the Message Flagging Mechanic! A message can be flagged using emojis, reviewed in a separate channel and upon approval be added into a Database (not yet implemented).

### Config Service:

*Purpose:* The config service is used to load the initial bot config, such as the bot token and a default prefix! It also stores information such as the Discord Rich Presence!

### Logger Service:

*Purpose:* The logger service as one can tell by the name exposes a logger to the developer, which can be used to track the state of the bot and collect debug information.

### Rate Limit Service:

*Purpose:* The rate limit service is used to limit the rate at which commands can get executed by an individual. In future the exceeding of the rate limit likely will get logged and suspicious behaviour will be reported to the Admins.