DIY Projects

GetEm

Expected time to finish **7-8 Days**

By **Harshit Seksaria**

Introduction

A Discord Bot which will run multiple regex checks on each of the messages sent to a server. If there is a match, **you got em!** There will be three types of severity level.

- Delete silently
- Delete and give the OP a warning
- Delete and kick the OP

Every action taken by the bot should be logged in a separate channel, which only the moderators can see.

Tech Stack

- **JavaScript**
- **discord.js**

Commands

1. Add a regex check, this will take in the severity level and the regex to check.
2. List all the regex checks.
3. Delete a particular regex check. *For this, you will have to give every regex a unique number and show that in the previous command. Moderators can use that unique number to refer to the regex that should be deleted.*

This is the basic requirement your bot should have. Now you can be creative and add more commands to the bot, like deleting a pattern which has already been spammed on multiple channels or a command to make a person immune to the bot, which means regex checks won't be run on their messages as they are trusted.

Resources

We are going to use a JavaScript package - **discord.js**

The official documentation of **discord.js** is very well written and covers everything in detail.

Let us start by setting up our environment -

- Installing Node.js and discord.js
- Setting up a bot application
- Adding your bot to servers
- Configuration files

For this project, add the bot to only one server to keep things simple.

Alright, once we are done with the setup. **Let us start writing code.** Follow these links and you will get a pretty good idea about how discord bots are written -

- Creating the main file
- Creating slash commands

- [Command handling](#)
- [Registering slash commands](#)
- [Event handling](#)
- [Command response methods](#)
- [Advanced command creation](#)
- [Parsing options](#)

Now you are equipped with enough tools to make **amazing** discord bots. The next thing we want is to restrict the usage of commands to only moderators - [Slash command permissions](#)

Regex

If you don't know about **Regex**, here's a brief overview - **RegEx** or **Reg**ular **Ex**pression is a sequence of characters, which represents a search pattern. It has various applications, like finding phone numbers or email addresses from a pool of text, making sure an input follows specific constraints, and obviously - **catching spam**. Go through this link quickly to get yourself familiarized with Regex - [How to write Regular Expressions?](#)

Lastly, you can use JavaScript's inbuilt **RegExp** object to test a string for a regex match - [RegExp.prototype.test() - JavaScript | MDN](#)

That is all from my side! You may need to use google for a lot of things. Googling is a **skill** and an **integral part** of development. As portrayed by the following meme **:-p**

Submission

The best projects will get featured in the next edition of **Debugged (Issue 3)**, our highly acclaimed club magazine, so don't forget to submit your projects upon completion!

After completing the project, fill this [form](#) to submit your hard work.