Discord JS

SQLite3

Creating a Level & Rep Bot

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Prerequisite Setup if you intend to follow along.

Set Up Dev Environment

- Requires:
  - NODE JS
  - DISCORD JS
  - SQLITE3
  - SPRINTF-JS

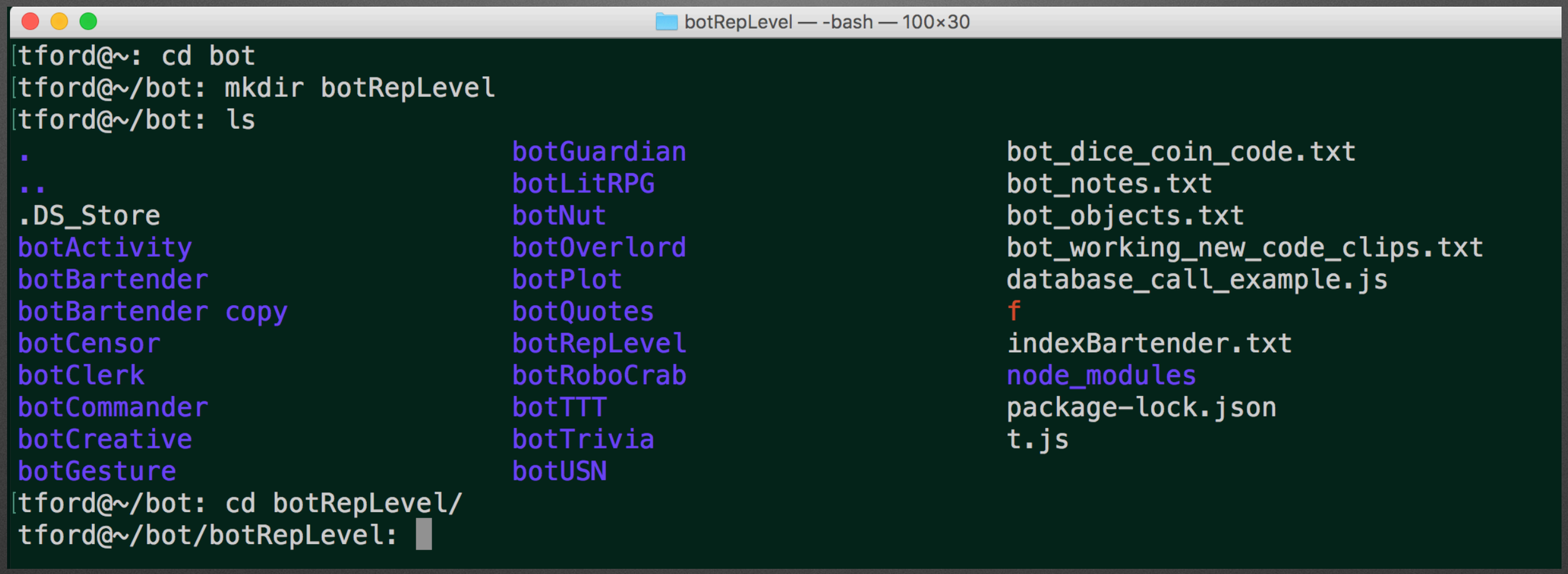
Google is Your Friend

- (basically, make a bot directory, and in that directory:)
- npm install -g n
- npm install discord.js
- npm install sqlite3
- npm install sprintf-js

Screenshots and Steps Upcoming

Set Up Dev Directory and Discord Bot Link

The Terminal is Your Friend




```
cd // change directory
mkdir // make directory
ls // list files
```

```
tford@~/bot/botRepLevel: ln -s ../node_modules .
tford@~/bot/botRepLevel: touch package.json
tford@~/bot/botRepLevel: touch settings.json
tford@~/bot/botRepLevel: touch indexRepLevel.js
tford@~/bot/botRepLevel: ls
.                   indexRepLevel.js package.json
..                  node_modules     settings.json
tford@~/bot/botRepLevel:
```

Your node_modules may be somewhere else.

```
ln // create link
touch // create file
ls // list files
```

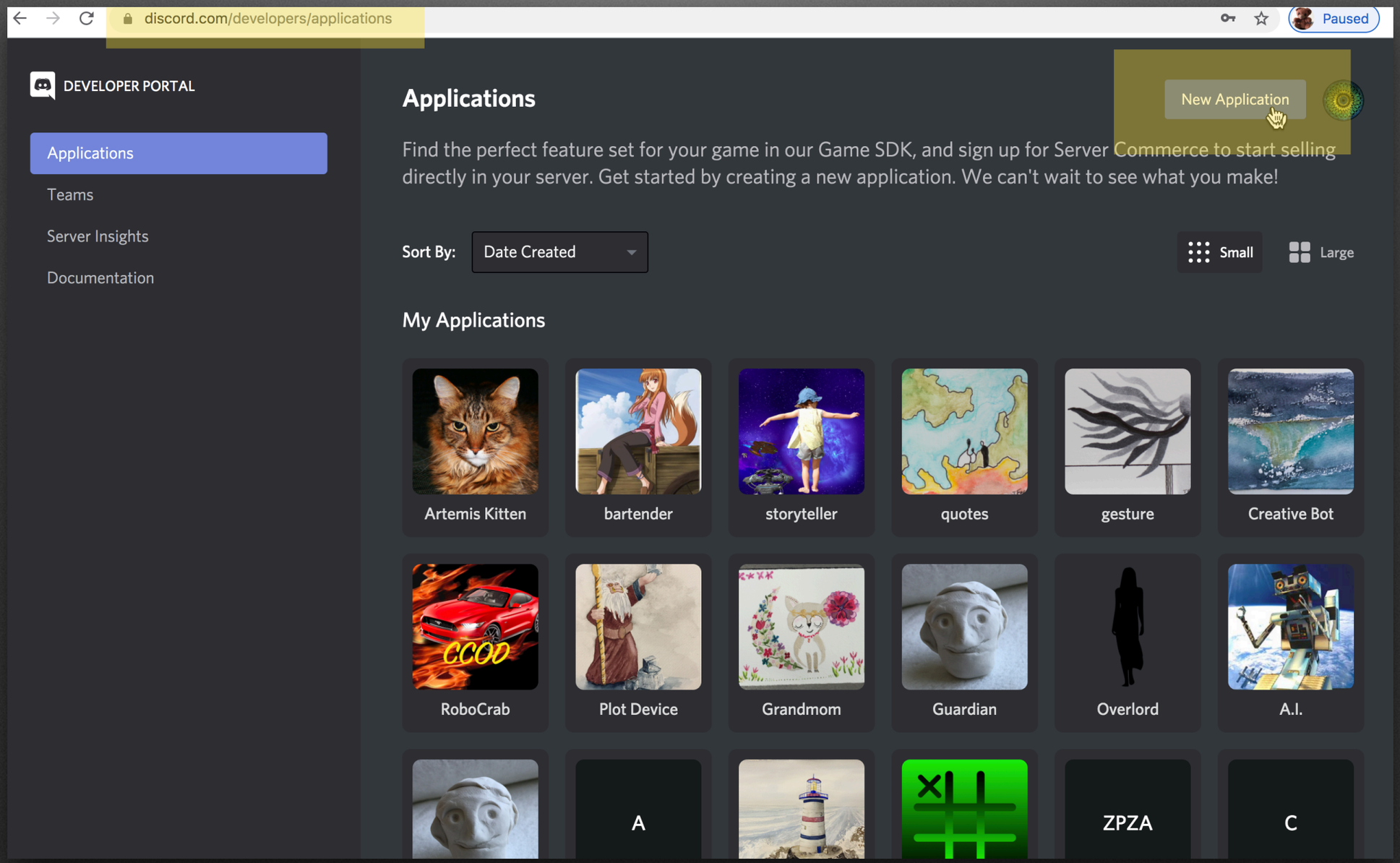
Copy

```
{
  "name": "Sir Rep Level Bot",
  "version": "1.0.0",
  "description": "Services and Seekers",
  "main": "indexRepLevel.js",
  "scripts": {
    "test": "test"
  },
  "keywords": [
    "reputation",
    "level"
  ],
  "author": "Slate (www.Cattail.Nu)",
  "license": "CC-BY-NC-4.0"
}
```

Paste in package.json

Create an Application at:

https://discord.com/developers/applications



directly in your server. Get started by creating a new application. We can't

Sort By: Date Created

My Appl

CREATE AN APPLICATION

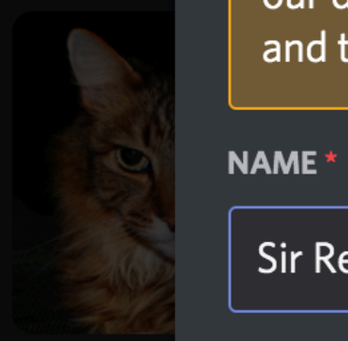
Are you a game dev? We may already have your app in our database. Reach out to our **Dev Support** for more info and to claim your game!

NAME *

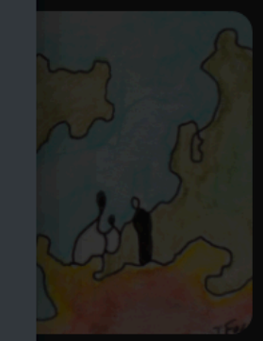
Sir Rep Level

By creating an API application, you agree to the Discord API Terms of Service

Cancel Create

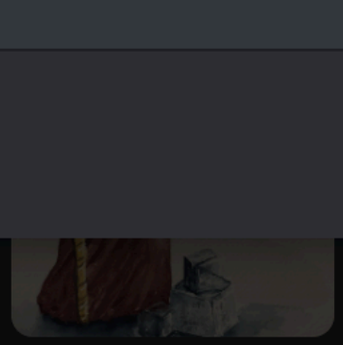


Artemis

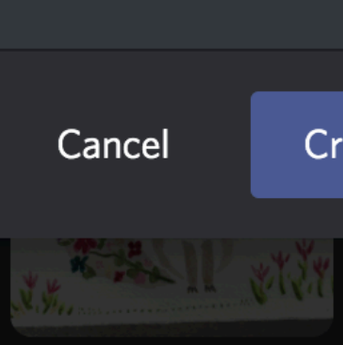


quotes

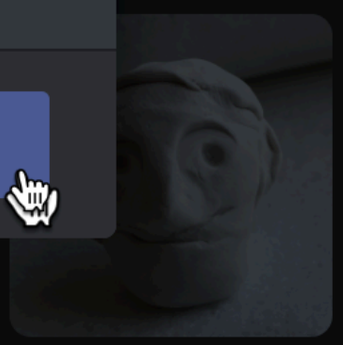
RoboCrab



Plot Device

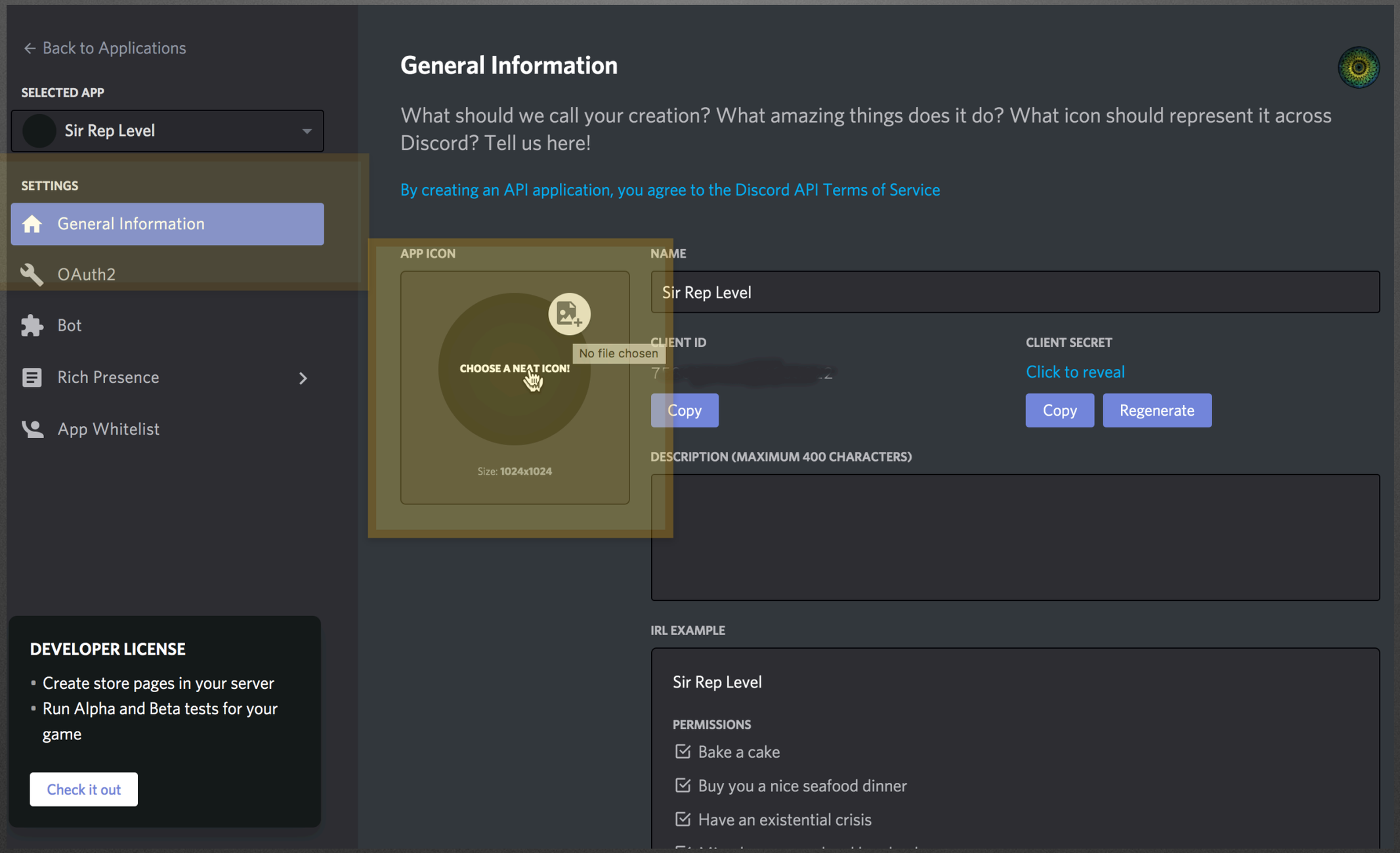


Grandmom

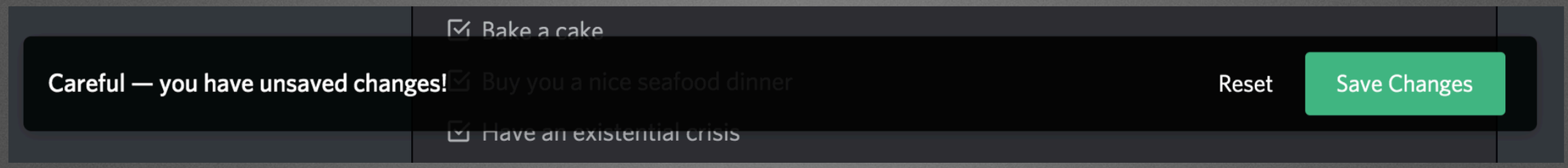


Guardian

Add an Icon

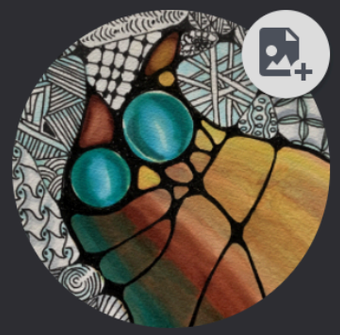

← Back to Applications
SELECTED APP
Sir Rep Level
SETTINGS
General Information
OAuth2
Bot
Rich Presence
App Whitelist
DEVELOPER LICENSE
• Create store pages in your server
• Run Alpha and Beta tests for your game
Check it out
General Information
What should we call your creation? What amazing things does it do? What icon should represent it across Discord? Tell us here!
By creating an API application, you agree to the Discord API Terms of Service
APP ICON
CHOOSE A NEAT ICON!
No file chosen
Size: 1024x1024
NAME
Sir Rep Level
CLIENT ID
Copy
CLIENT SECRET
Click to reveal
Copy
Regenerate
DESCRIPTION (MAXIMUM 400 CHARACTERS)
IRL EXAMPLE
Sir Rep Level
PERMISSIONS
Bake a cake
Buy you a nice seafood dinner
Have an existential crisis

Save It !!!



All your edits have been carefully recorded.

APP ICON



Remove

NAME

Sir Rep Level

CLIENT ID

[redacted]

Copy

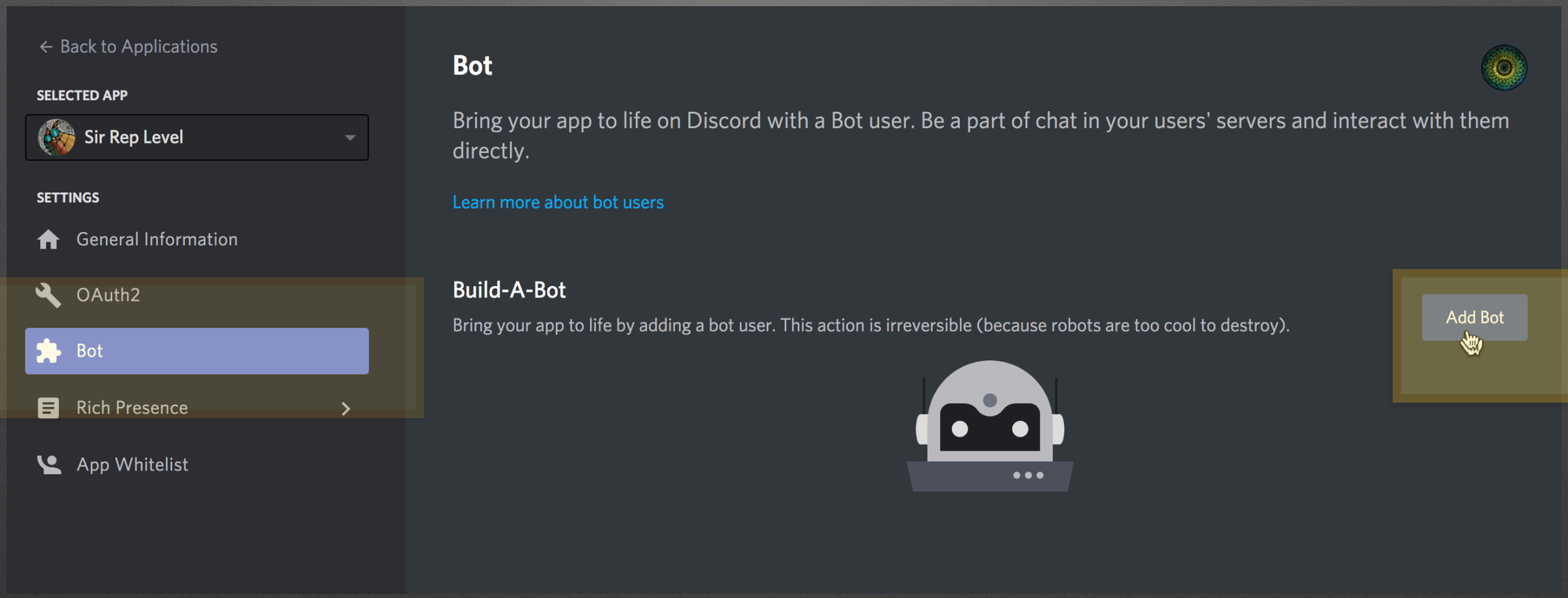
CLIENT SECRET

Click to reveal

Copy Regenerate

DESCRIPTION (MAXIMUM 400 CHARACTERS)

Add a Bot to the App



Build-A-Bot

Bring your app to life by adding a bot user. This action is irreversible (because robots are

ADD A BOT TO THIS APP?

Adding a bot user gives your app visible life in Discord.
However, this action is irrevocable! Choose wisely.

Nevermind

Yes, do it!

Make it Private and Save It !!!

Sir Rep Level

SETTINGS

- General Information
- OAuth2
- Bot
- Rich Presence
- App Whitelist

DEVELOPER LICENSE

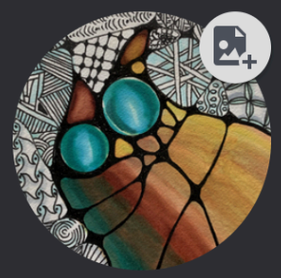
- Create store pages in your server
- Run Alpha and Beta tests for your game

Check it out

Build-A-Bot

Bring your app to life by adding a bot user. This action is irreversible (because robots are too cool to destroy).

ICON



Remove

USERNAME

Sir Rep Level #2997

TOKEN

Click to Reveal Token

Copy Regenerate

Authorization Flow

These settings control how OAuth2 authorizations are restricted for your bot (who can add your bot and how it is added).

PUBLIC BOT

Public bots can be added by anyone. When unchecked, only you can join this bot to servers.

REQUIRES OAUTH2 CODE GRANT

If your application requires multiple scopes then you may need the full OAuth2 flow to ensure a bot doesn't join before your application is granted a token.

Careful — you have unsaved changes!

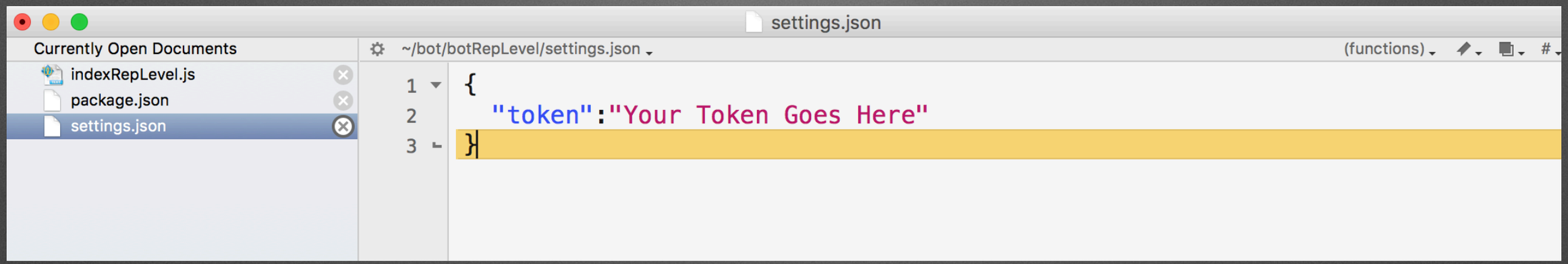
Reset Save Changes

Privileged Gateway Intents

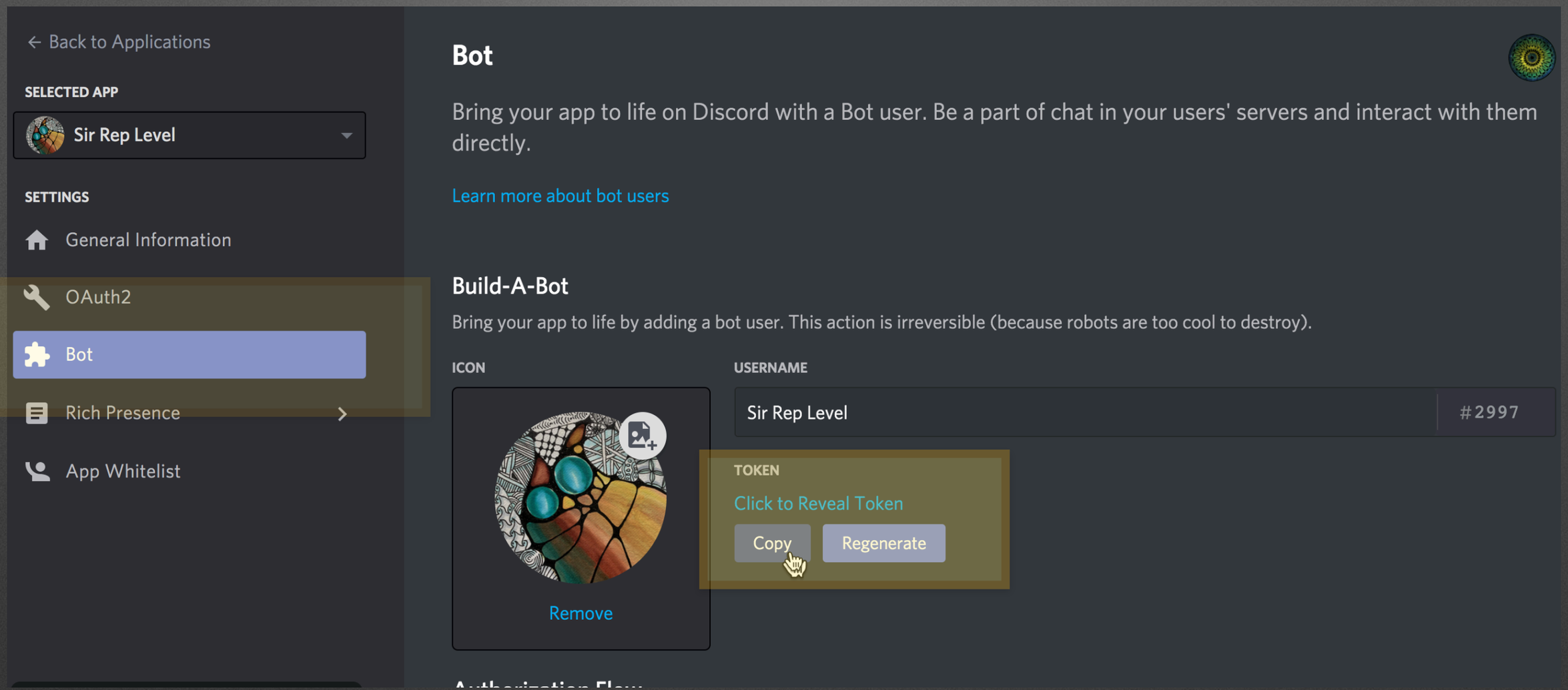
Copy

```
{
   "token":"YourTokenHere"
}
```

Paste in settings.json

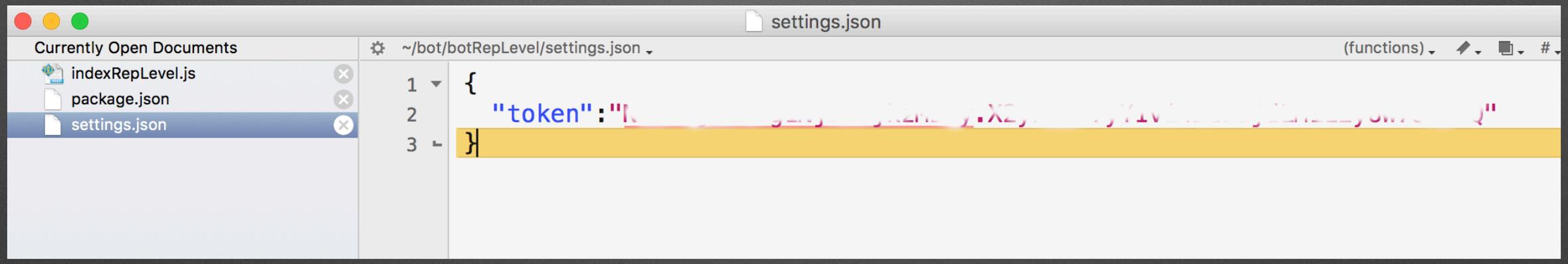


Copy Bot Token



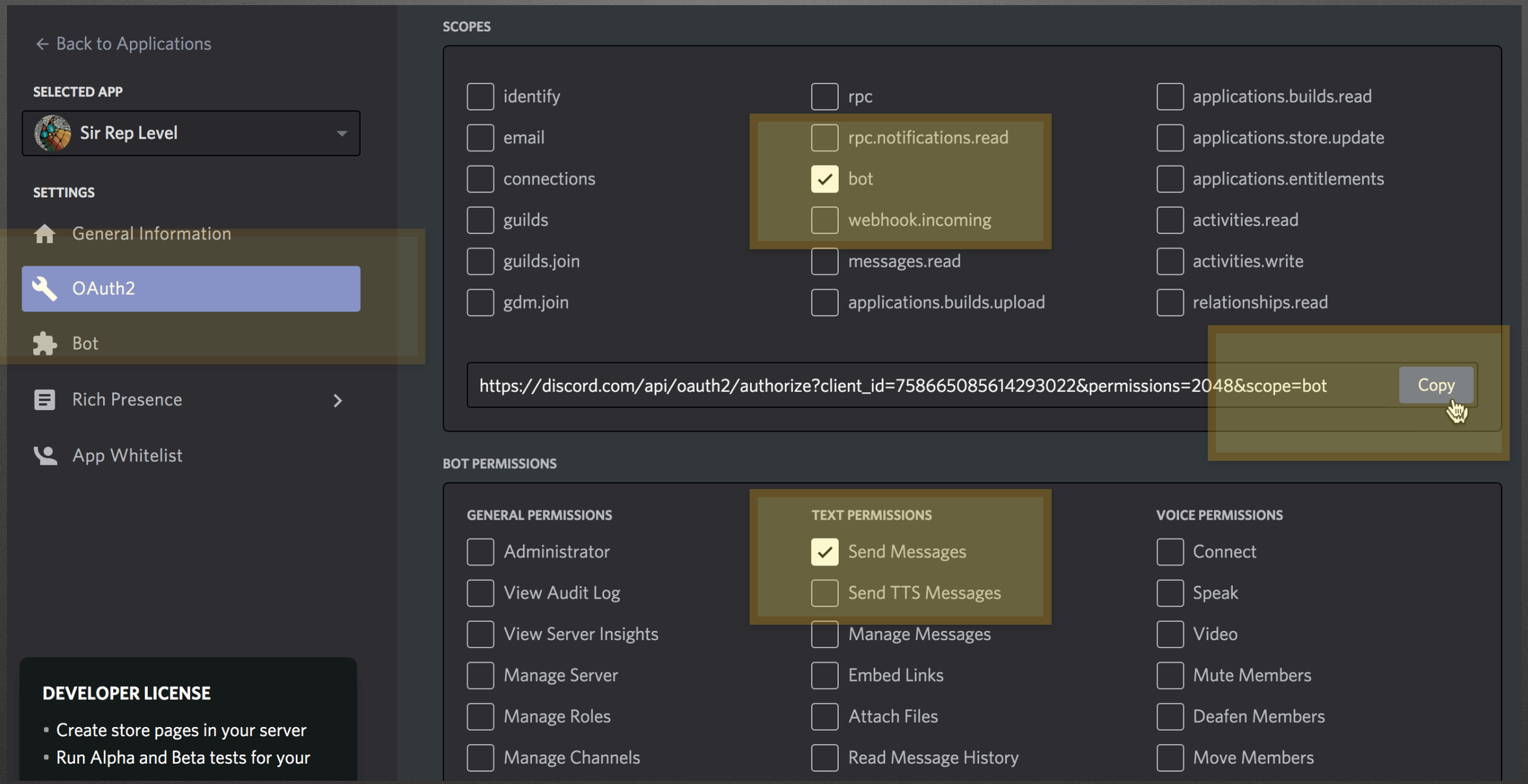
Paste

Paste Your Token in between the Quotes

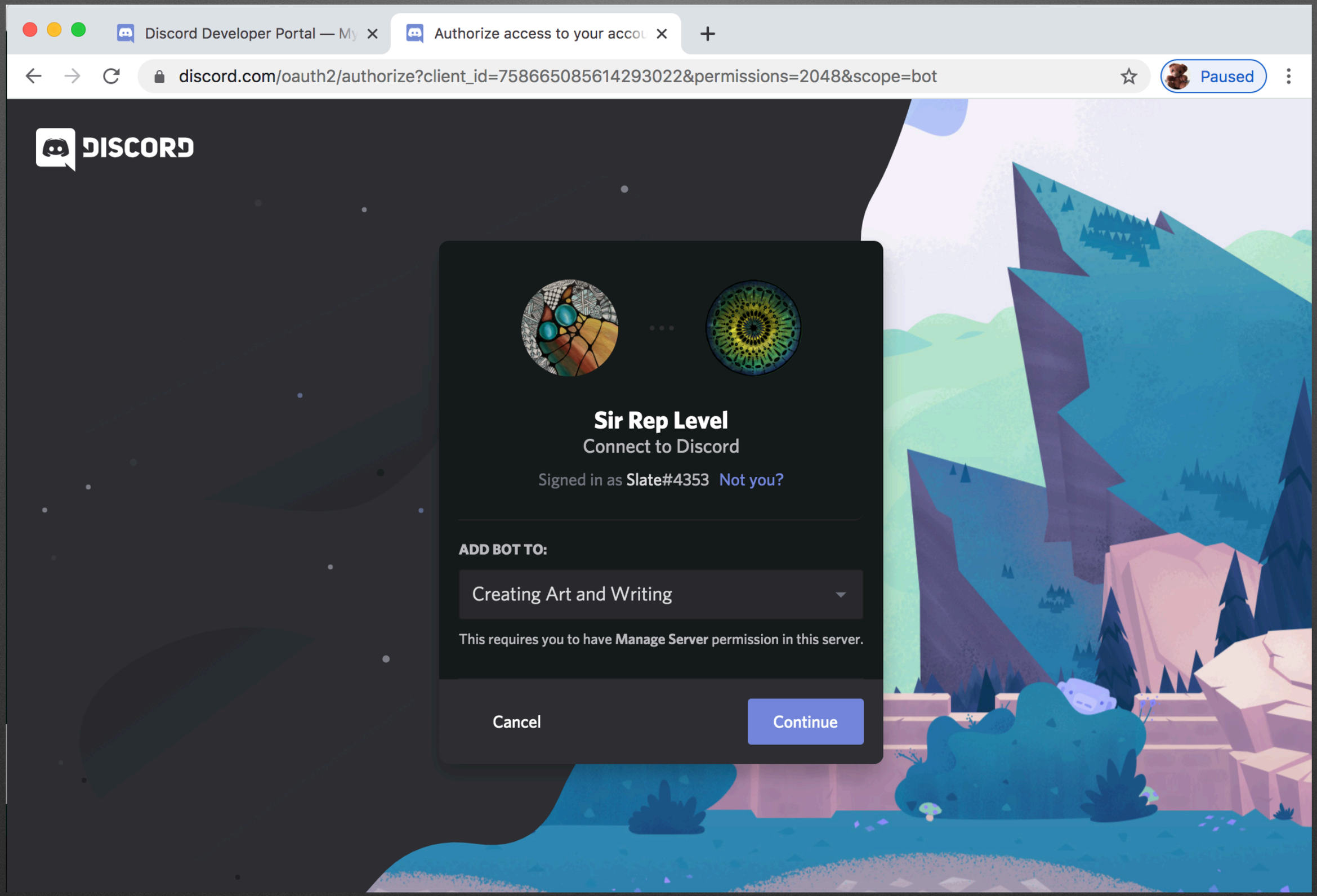


Don’t ever share your token with anyone.

Get the Add Bot URL with the Right Permissions



Use your Bot URL



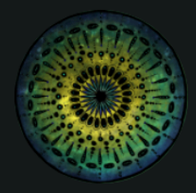
Discord Developer Portal — My

Authorize access to your accou

discord.com/oauth2/authorize?client_id=758665085614293022&permissions=2048&scope=bot

Paused

DISCORD



Sir Rep Level

Connect to Discord

Signed in as **Slate#4353** Not you?

Confirm that you want to grant **Sir Rep Level** the following permissions on **Creating Art and Writing**:

- [x] Send Messages

Active since Sep 24, 2020

Used in 0 servers

This application **cannot** read your messages or send messages as you.

Back

Authorize

Discord Developer Portal — My

Authorize access to your accou

discord.com/oauth2/authorized

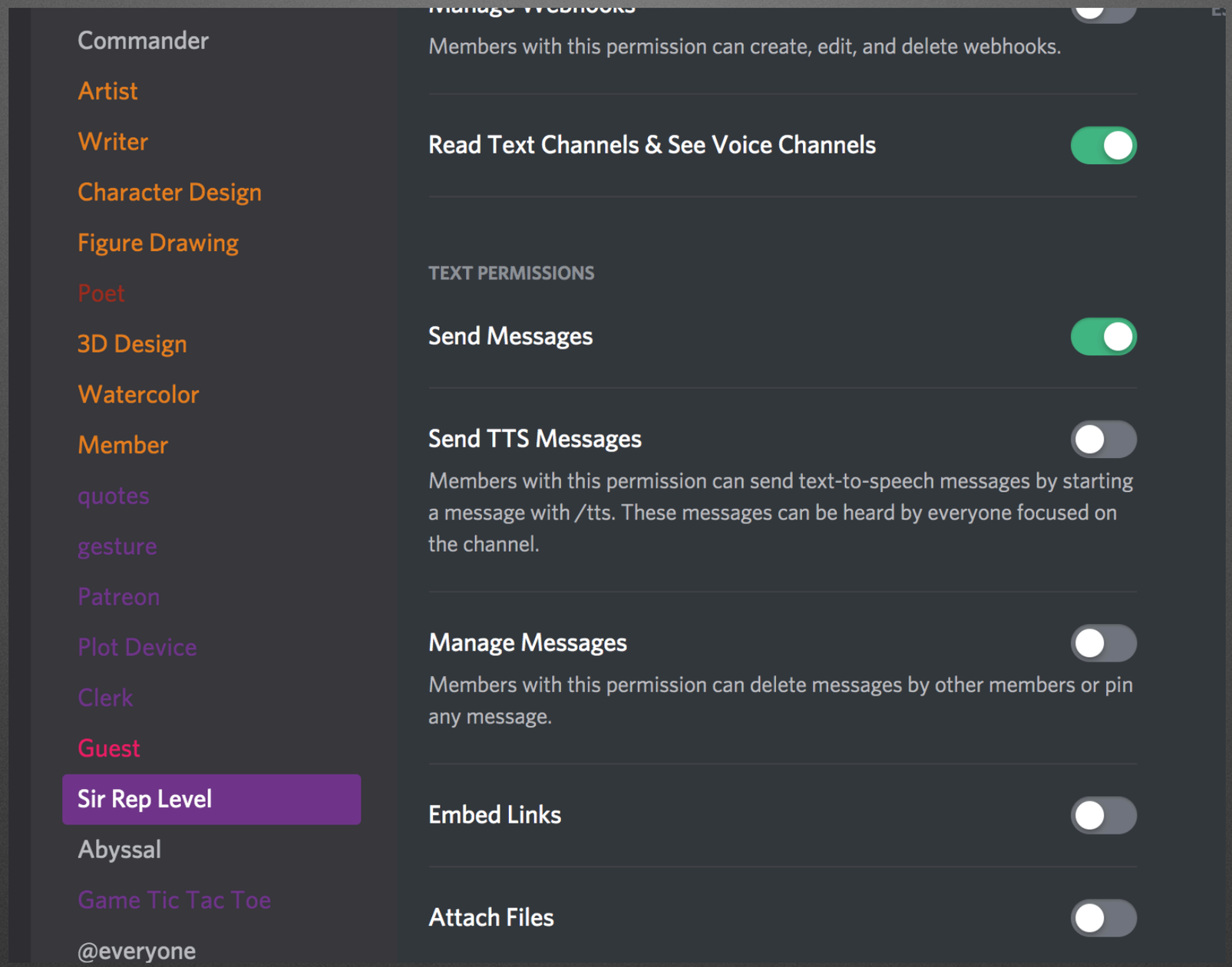
Paused

DISCORD

Authorized

You may now close this window or tab.

Set Up Channel Permissions

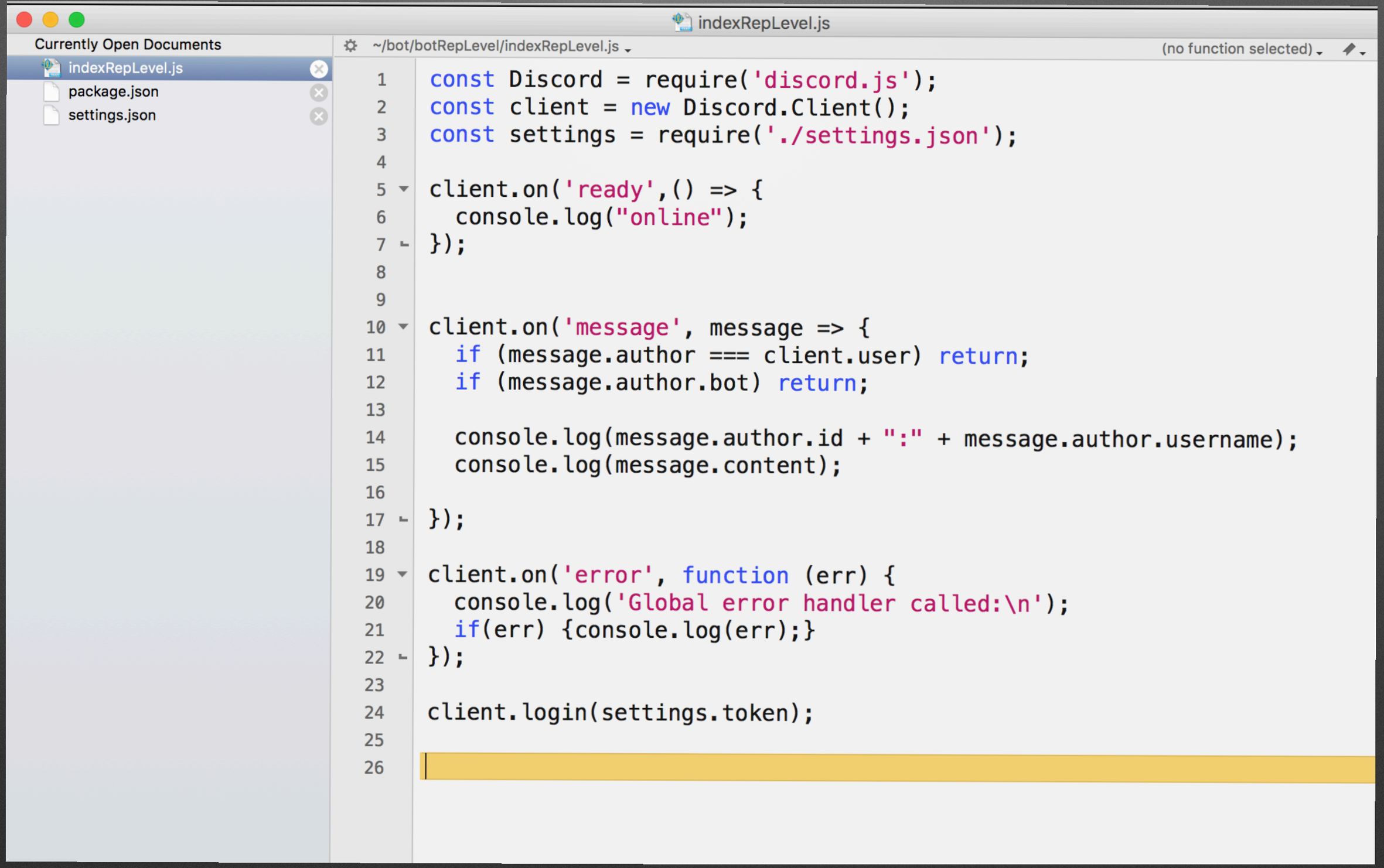


Your Bot must be able to read and send messages on whatever channel you want to use it on.

Copy

```
const Discord = require('discord.js');
const client = new Discord.Client();
const settings = require('./settings.json');

client.on('ready',() => {
    console.log("online");
});


client.on('message', message => {
    if (message.author === client.user) return;
    if (message.author.bot) return;

    console.log(message.author.id + ":" + message.author.username);
    console.log(message.content);


});

client.on('error', function (err) {
  console.log('Global error handler called:\n');
  if(err) {console.log(err);}
});

client.login(settings.token);
```

Paste in indexRepLevel.js

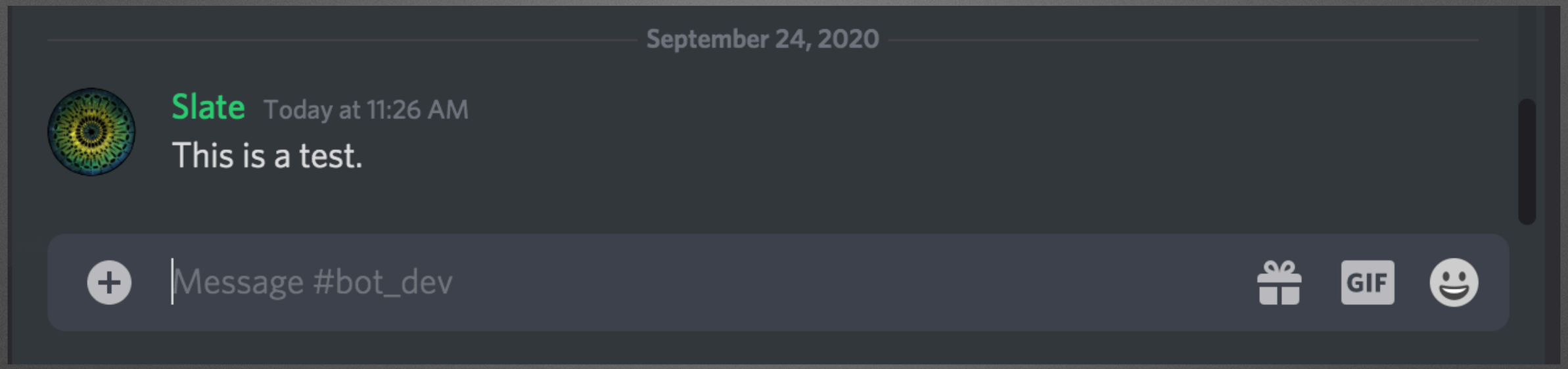


Run your Bot

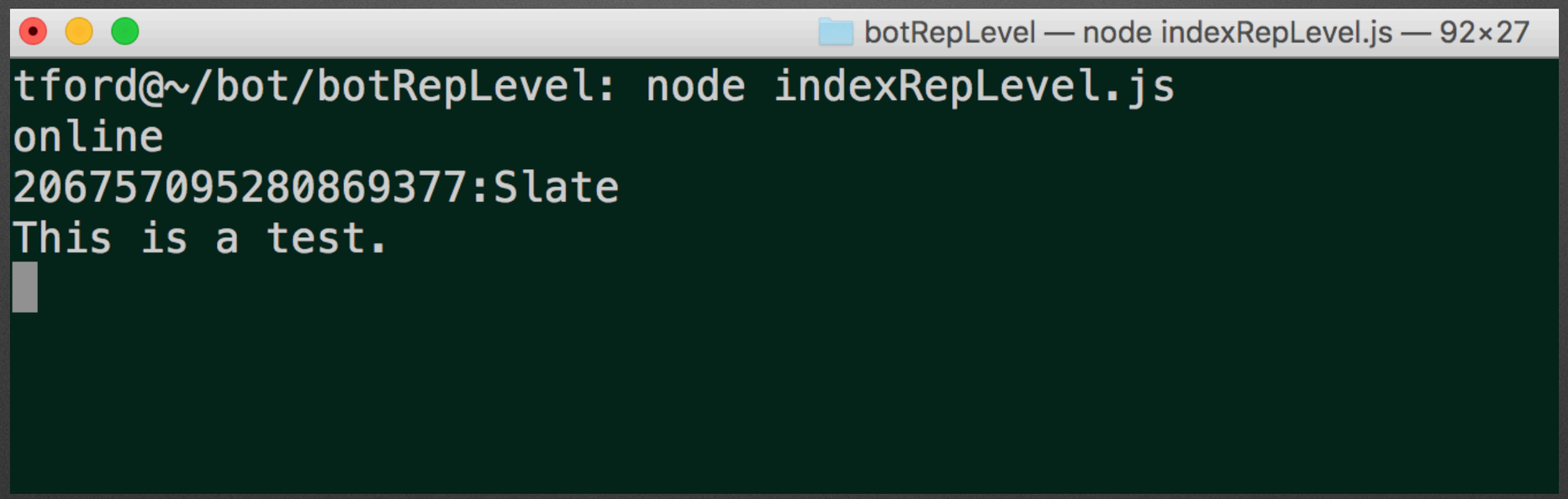
```
tford@~/bot/botRepLevel: ls
.                 indexRepLevel.js node_modules     settings.json
..                indexShell.js    package.json
tford@~/bot/botRepLevel: node indexRepLevel.js
online
```

Test your Bot

Type a Message on Discord



See the Bot Working



If your bot does not do this… one of the steps is not done correctly.
Read the error message carefully.
If you still can’t figure it out, ask on Discord.

You Are Now Ready For

Creating
a
Level & Rep Bot

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Discord JS

SQLite3