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**PROJECT PROPOSAL**

*Discord Bot - Play Games with Friends*

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## Project Abstract

*This document proposes a discord bot that allows users to play checkers with other discord users. The user can initiate a game with another user that is also part of the same server. The game will be played inside of a discord server. Games can be paused and played at a later time. The game will be checkers. Since users are remote this is a great way for them to connect over a game of checkers.*

## Conceptual Design

The initial design concept is to have a discord bot created and added to a server. Have users in that server become authorized with the bot and communicate to each other through the bot. This will then be modified to having the bot send game information back and forth between the users.

This project will use JavaScript programming language, the Discord API, Nodemon to run the project, and OAuth2 to authorize the users with the discord bot.

## Proof of Concept

<https://github.com/jay-newman/newBot> Here is a link to a discord bot with reply commands to send back images and gifs. In this project you will find a readme file that explains how to set up and run the discord bot. This software was run on Linux Mint 20.3 Cinnamon. Version 5.2.7 using Javascript/node version 18.9.0.

## Background

The initial design will use emojis allowing the discord bot to print the checkers board. This was seen in a similar project at <https://github.com/jmsheff/discord-checkers> . This project aims to have a cleaner looking checkers board. Other ways will be explored into which this is possible and would allow the users to customize the game board and pieces instead of using the same colors of red and black.. In this project there will be the ability to change some rules of the common game of checkers. This can be done through the bot which will use different logic for the different game styles. This is the initial approach but expanding beyond to different games is another goal that will allow users to play other games besides just checkers. This result is intended to be a fun game playing discord bot that will allow users to play games with friends with a customizable experience.

## Required Resources

There are many resources available to develop a discord bot using javascript. There are written tutorials and videos that will be used in order to get a bot up and running. Software used will be IntelliJ IDEA. Any modern computer/phone with discord app will work with discord so hardware resources are not limited in any way.