Black Diamond

Introduction: Hi, Myself Albert here if you want to know more about me you can refer to my portfolio: [Link], So I have seen many bots in the markets and server having about 6 to 10 bot for the uses some for security some for fun and some for music why not make a open source bot which can do everything I know it would be a heavy task to take but Yesh we dream it we do it in this document you the whole code base file still and what and heavy is the code it connected is given here and it you want to make any changes or update something let me know or Dm in on discord or insta so we can make it better Lets not make this into very huge after this will be our index and then the whole document have fun and let me know if you like it be sure to star the repo so it don’t vanish out !!

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Teach Stack

This Discord bot is built using a **custom JavaScript (JS)** framework—because JS is like a magic toolbox full of gadgets (**libraries**) that make my life easier. It’s **scalable**, meaning I can keep adding cool features (without breaking everything… hopefully). Plus, with a huge **community**, there’s always a new trick to keep the bot **up-to-date** and running smoothly. While **Python** is easy to read, JavaScript is a beast when it comes to handling **big tasks**—and since **discord.js** loves it, they’re a perfect duo. Basically, JavaScript is my trusty sidekick, helping this bot do everything but clean my room!

File Structure

This document outlines the folder and file structure for the Discord bot project. It is designed to keep the bot's features organized and maintainable.

**Project Structure**

root/

├── node\_modules/ # Node.js dependencies

├── src/ # Source code folder

│ ├── Commands/ # General command modules

│ │ ├── adminonly.js # Commands restricted to admins

│ │ ├── command.js # Main command handler

│ │ ├── function1.js # Additional command functions

│ │ ├── Games.js # Game-related commands

│ │ └── musiccommand.js # Music-related commands

│ ├── Music/ # Music system

│ │ ├── function2.js # Helper functions for music

│ │ ├── handling.js # Music playback handling

│ │ └── soundboard.js # Soundboard-related commands

│ ├── Security/ # Security-related modules

│ │ ├── Antilink.js # Anti-link detection

│ │ ├── Antiraid.js # Anti-raid measures

│ │ ├── Antispam.js # Anti-spam protection

│ │ ├── badwords.js # Bad words filter

│ │ ├── function3.js # Additional security functions

│ │ └── verification.js # User verification system

│ ├── Util/ # Utility functions and commands

│ │ ├── currency.js # Currency-related utilities

│ │ ├── function4.js # Additional utility functions

│ │ ├── pet.js # Virtual pet system

│ │ └── tictakto.js # Tic-Tac-Toe game

│ └── main.js # Main entry point for the bot

├── Test/ # Test scripts

│ ├── badwordssys.js # Test for bad words filter

│ └── Radingringsys.js # Test for raid detection

├── .env # Environment variables

├── .gitignore # Git ignore file

├── Documentation.docx # Detailed documentation

├── logs.txt # Bot logs

├── MIT.md # MIT License

├── package-lock.json # Package lock file

├── package.json # Project metadata

└── Readme.md # Project overview and setup instructions

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Features

| **Category** | **Feature** | **Description** | **File Location** |
| --- | --- | --- | --- |
| **General Commands** | Admin Commands | Includes kick, ban, and message clearing. | src/Commands/adminonly.js |
|  | Fun Commands | Interactive and entertainment-based commands. | src/Commands/command.js |
|  | Game Commands | Play games like Tic-Tac-Toe. | src/Commands/Games.js, src/Util/tictakto.js |
|  | Music Commands | Play, pause, and manage music. | src/Commands/musiccommand.js |
|  | Soundboard | Fun sound effects for the server. | src/Music/soundboard.js |
| **Music System** | Music Playback | Handles playing and managing music. | src/Music/handling.js |
|  | Music Utilities | Helper functions for music management. | src/Music/function2.js |
| **Security** | Anti-Link Protection | Detects and removes unauthorized links. | src/Security/Antilink.js |
|  | Anti-Raid System | Prevents mass-joins and protects the server. | src/Security/Antiraid.js |
|  | Anti-Spam System | Blocks message flooding and spam detection. | src/Security/Antispam.js |
|  | Bad Words Filter | Filters offensive words from chat. | src/Security/badwords.js |
|  | User Verification | Ensures users are verified before accessing. | src/Security/verification.js |
| **Utility** | Currency System | Virtual currency system for users. | src/Util/currency.js |
|  | Virtual Pet | Users can adopt and interact with a virtual pet. | src/Util/pet.js |
| **Testing** | Security Tests | Test modules for security features. | src/Test/badwordssys.js, src/Test/Radingringsys.js |
| **Core System** | Main Bot Controller | Entry point to manage and run the bot. | src/main.js |

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Command and its usage

**📋 Normal Commands (For All Users)**

1. **/help** – Displays a list of all available commands.  
   **Usage:** /help
2. **/ping** – Checks the bot’s response time and confirms if it’s online.  
   **Usage:** /ping
3. **/avatar** – Shows the profile picture of a user.  
   **Usage:** /avatar [@user]
4. **/userinfo** – Provides detailed information about a specific user.  
   **Usage:** /userinfo [@user]
5. **/serverinfo** – Displays information about the current Discord server.  
   **Usage:** /serverinfo
6. **/say** – Makes the bot repeat a message.  
   **Usage:** /say [message]
7. **/weather** – Shows the current weather for a given city.  
   **Usage:** /weather [city]
8. **/8ball** – Ask a question and receive a random magic 8-ball answer.  
   **Usage:** /8ball [question]
9. **/meme** – Sends a random meme to the chat.  
   **Usage:** /meme
10. **/joke** – Tells a random joke to lighten the mood.  
    **Usage:** /joke
11. **/quote** – Provides a random motivational quote.  
    **Usage:** /quote
12. **/roll** – Rolls a virtual dice (default is 1-6).  
    **Usage:** /roll [sides]
13. **/coinflip** – Flips a coin and returns either heads or tails.  
    **Usage:** /coinflip
14. **/remind** – Sets a reminder to alert you after a specific time.  
    **Usage:** /remind [time] [message]
15. **/poll** – Creates a quick poll with multiple options.  
    **Usage:** /poll [question] [options]
16. **/translate** – Translates text to a different language.  
    **Usage:** /translate [language] [text]
17. **/timer** – Starts a countdown timer.  
    **Usage:** /timer [duration]
18. **/gif** – Sends a random GIF based on a keyword.  
    **Usage:** /gif [keyword]
19. **/profile** – Displays your bot-related profile information.  
    **Usage:** /profile
20. **/level** – Shows your current XP and level progress.  
    **Usage:** /level
21. **/leaderboard** – Displays the server's top users by level or points.  
    **Usage:** /leaderboard
22. **/play** – Plays music from YouTube or other supported sources.  
    **Usage:** /play [song name/URL]

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1. **/pause** – Pauses the current song.  
   **Usage:** /pause
2. **/resume** – Resumes a paused song.  
   **Usage:** /resume
3. **/skip** – Skips the current song and plays the next one.  
   **Usage:** /skip
4. **/queue** – Shows the current music playlist queue.  
   **Usage:** /queue
5. **/pet** – Allows users to feed, play with, or check their virtual pet.  
   **Usage:** /pet [feed/play/check]
6. **/tictactoe** – Play a game of Tic-Tac-Toe with another user.  
   **Usage:** /tictactoe [@user]
7. **/convert** – Converts values between different units (e.g., cm to inches).  
   **Usage:** /convert [value] [unit]
8. **/vote** – Sends a link to vote for the bot on bot listing platforms.  
   **Usage:** /vote

**🔒 Admin Commands (For Admins Only)**

1. **/kick** – Kicks a user from the server.  
   **Usage:** /kick [@user] [reason]
2. **/ban** – Bans a user from the server.  
   **Usage:** /ban [@user] [reason]
3. **/unban** – Unbans a previously banned user.  
   **Usage:** /unban [userID]
4. **/mute** – Mutes a user, preventing them from speaking.  
   **Usage:** /mute [@user] [duration]
5. **/unmute** – Unmutes a muted user.  
   **Usage:** /unmute [@user]
6. **/warn** – Issues a warning to a user.  
   **Usage:** /warn [@user] [reason]
7. **/warnings** – Displays a user's current warnings.  
   **Usage:** /warnings [@user]
8. **/clear** – Deletes a specified number of messages from a channel.  
   **Usage:** /clear [amount]
9. **/slowmode** – Enables slow mode to limit message frequency.  
   **Usage:** /slowmode [time]
10. **/lock** – Locks a channel to prevent messages.  
    **Usage:** /lock [#channel]
11. **/unlock** – Unlocks a previously locked channel.  
    **Usage:** /unlock [#channel]
12. **/announce** – Sends a styled announcement message.  
    **Usage:** /announce [message]
13. **/addrole** – Assigns a role to a user.  
    **Usage:** /addrole [@user] [role]

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1. **/removerole** – Removes a role from a user.  
   **Usage:** /removerole [@user] [role]
2. **/createrole** – Creates a new role in the server.  
   **Usage:** /createrole [role name]
3. **/deleterole** – Deletes a specified role.  
   **Usage:** /deleterole [role name]
4. **/nick** – Changes a user’s nickname.  
   **Usage:** /nick [@user] [new name]
5. **/log** – Displays recent moderation logs.  
   **Usage:** /log
6. **/backup** – Creates a backup of the server settings.  
   **Usage:** /backup
7. **/restore** – Restores a previous server backup.  
   **Usage:** /restore [backupID]
8. **/purge** – Deletes bulk messages with optional filters.  
   **Usage:** /purge [amount] [filter]
9. **/shutdown** – Shuts down the bot (for bot owners).  
   **Usage:** /shutdown
10. **/restart** – Restarts the bot.  
    **Usage:** /restart
11. **/setwelcome** – Sets a custom welcome message.  
    **Usage:** /setwelcome [message]
12. **/setgoodbye** – Sets a custom goodbye message.  
    **Usage:** /setgoodbye [message]
13. **/antiraid** – Toggles anti-raid protection.  
    **Usage:** /antiraid [on/off]
14. **/antilink** – Toggles link protection.  
    **Usage:** /antilink [on/off]
15. **/antispam** – Enables or disables spam detection.  
    **Usage:** /antispam [on/off]
16. **/whitelist** – Adds or removes a user from the whitelist.  
    **Usage:** /whitelist [@user] [add/remove]
17. **/blacklist** – Blocks a user from using bot commands.  
    **Usage:** /blacklist [@user]

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DEV BLOG: Hey, So as you already knew my name

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