

Chess Manual

CSE412 Project

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[Youtube Walkthrough](#)

[Online Manual](#)

Getting Started

This project is done locally in a postgresql database using node.js. To get started you need a few simple things: a postgresql environment and certain dependencies. First thing is to make sure you have postgresql installed on your local machine. Secondly go to our github: <https://github.com/Jason231-ctrl/CSE412> and install the latest version of our code.

If you have any trouble installing postgresql, here is a step by step walkthrough in doing so

<https://www.enterprisedb.com/postgres-tutorials/postgres-installer-step-step-guide-install-postgresql>

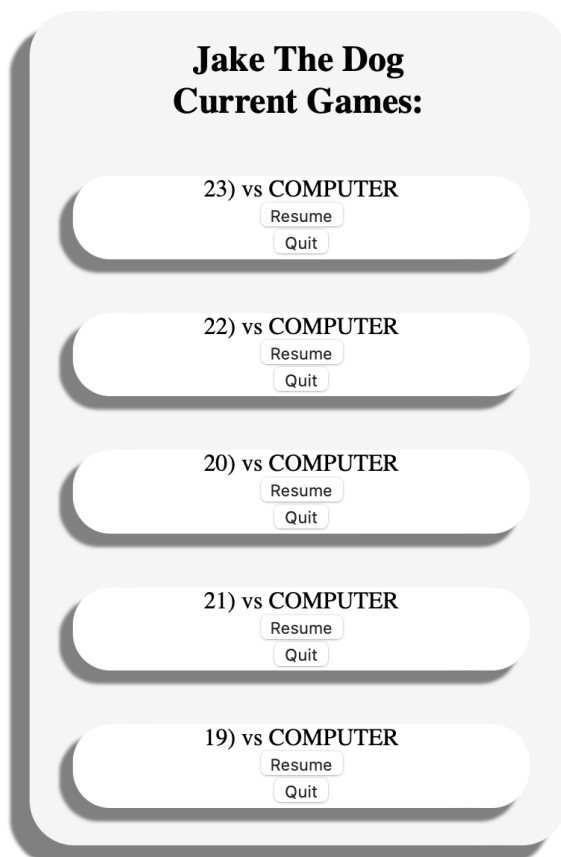
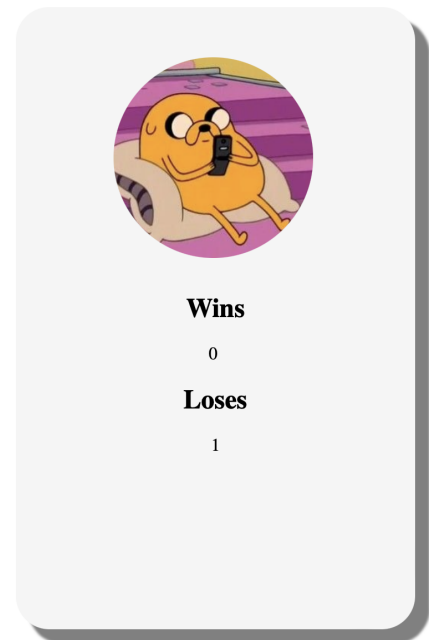
A quick and easy way to use our database is to import the SQL dump into your local postgresql database. You can do this by using the command: “psql [database] < chessdb.sql”. Once you have finished with that step, you need to change the data in “dbcreds.js” to match your postgresql database credentials.

After all that has been done. You need to type “node app.js” in the command line. Great, you have now successfully started our game. Head over to your browser and type [http://localhost:\[port\]](http://localhost:[port]) and begin! **Port is 5001, but can be altered in app.js**

Player Card

What is a player card? -

A player's card is unique to each individual player. It represents the amount of wins and losses they have since the entirety of their account. This helps the user keep track of their own progress. Currently the image is static, there is no way to change your profile picture, this may be improved upon in future updates.



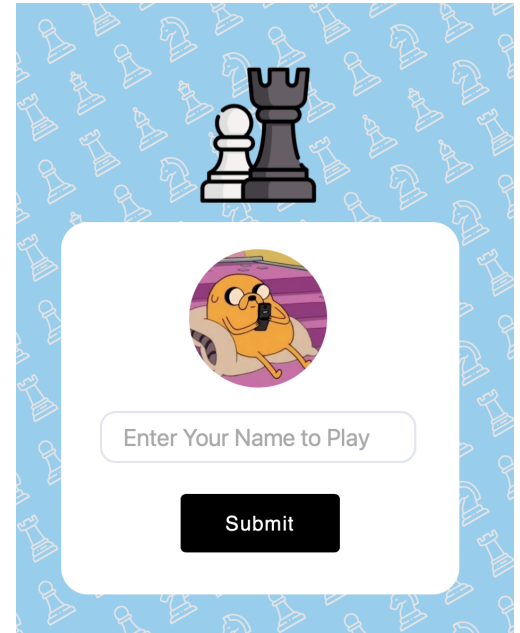
Current Games

In this game, you are able to keep track of multiple differing games. This is done by keeping track of instances of a board. You can pick up where you left off with every new opponent. It is not only limited to 5. Not visible here but you can scroll down to reveal more games of which are unfinished. Currently the only opponent you can face is the Computer. Future developments may implement multiplayer functionality.

How To Play

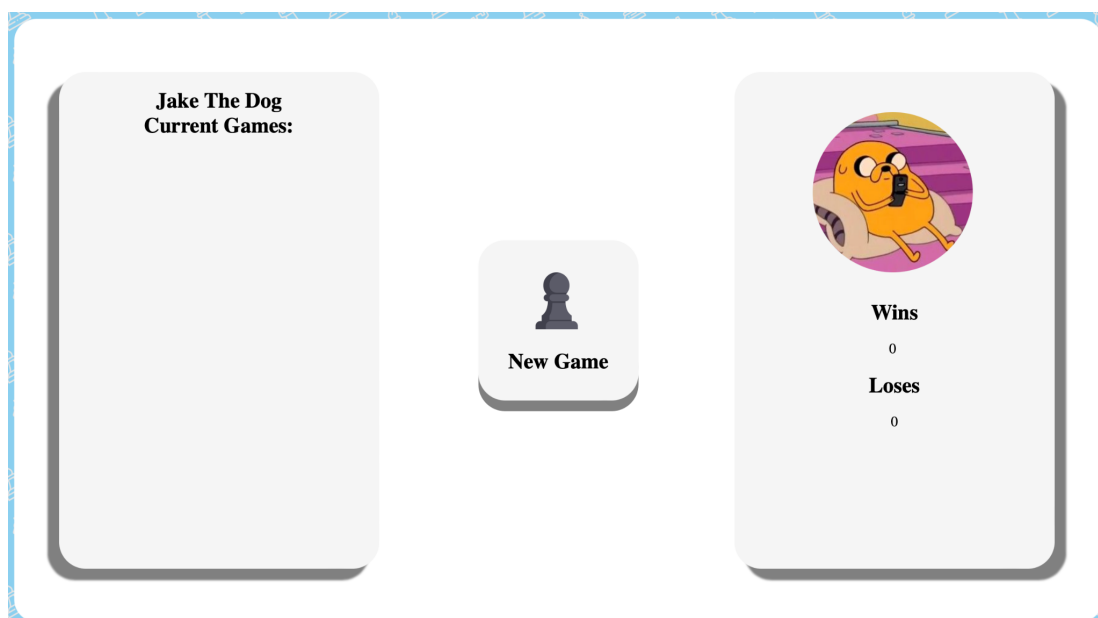
Create/Login User:

When you initially start the game you will be prompted to enter a name. This name is saved within the database and there can be only one unique username. If no username is present within the database, a new user will be created with said username. Click submit to add the new user and it will continue onto the dashboard screen.



Start A Game:

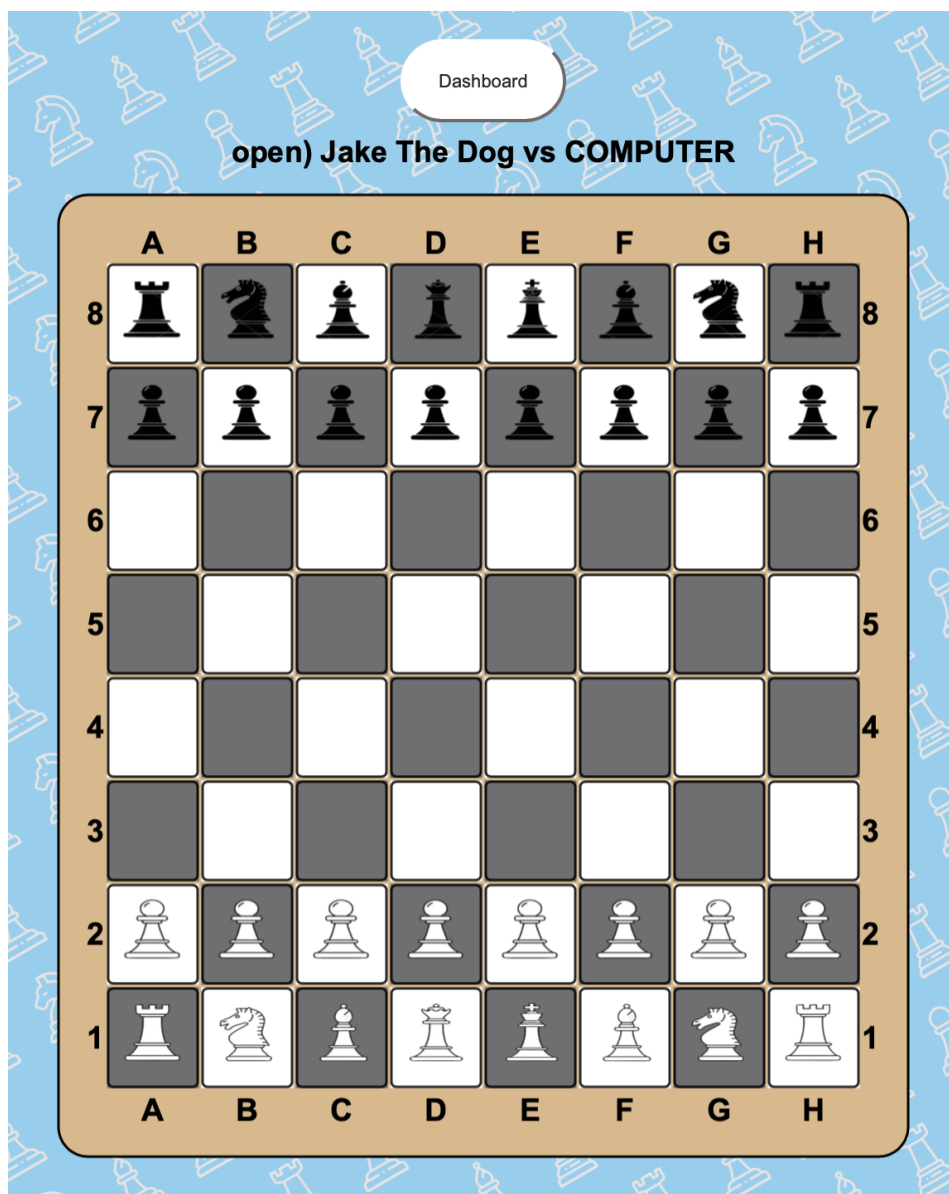
When you enter the dashboard screen, you will see a current game section, player icon, and new game button. Since you are new to the game, no games are in the current sections, see [Current Games](#) and [Player Card](#) for more information. Select a new game to play against a bot.



Move A Piece:

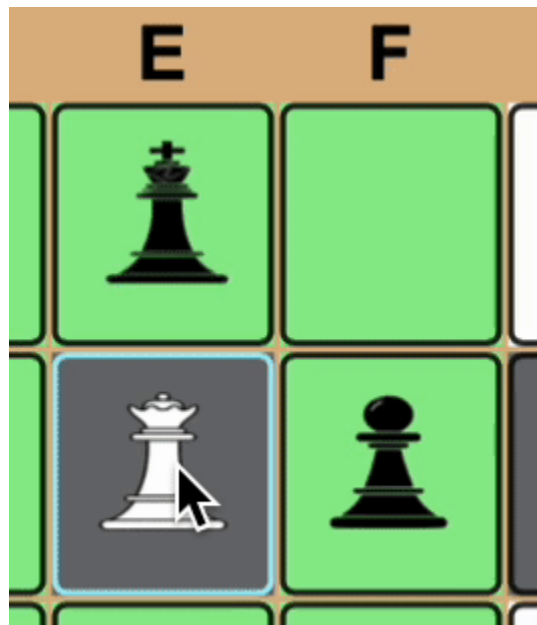
When you start a game you will be redirected to a new board. The game can start immediately after loading. If you are unfamiliar with the game of chess, it is recommended that you read up in order to fully understand how this game works. A full list of rules can be found here: [Rules of chess - Wikipedia](https://en.wikipedia.org/wiki/Rules_of_chess). A piece can move by selecting a piece and it will automatically highlight available moves.

*****Not all features are currently available: promoting/en passant*****



How To Win:

When a piece is moved, the computer automatically plays a move after. In order to win, you must capture the king. A little different than standard chess, but don't you just hate the word "checkmate"? Well now you can finally take out the king with your piece! Go ahead and try it out.



Once you win or lose a game, the title will update. It will be saved in the database. Feel free to gobble up the rest of the pieces if you win, you deserve it!

p1wins) Jake The Dog vs COMPUTER

Logout

At any moment if the game is too much you can click the red X button located on the top left of the screen to log out of the game.



References

Vector Icons

Logo - https://www.flaticon.com/premium-icon/chess_2500116

Pawn - https://www.flaticon.com/free-icon/chess-piece_3410963

Pawn2- [Search results for Chess pawn - Flaticon](#)

Rook - https://www.flaticon.com/free-icon/chess_750954

King - [Chess piece - Free sports and competition icons \(flaticon.com\)](#)

Queen - [Chess piece - Free entertainment icons \(flaticon.com\)](#)

Bishop - [Bishop - Free entertainment icons \(flaticon.com\)](#)

Knight - [Strategy - Free sports icons \(flaticon.com\)](#)

Button Style - [3D Fip Button \(codepen.io\)](#)

Profile Picture - [Adventure time wallpaper \(pinterest.com\)](#)