

Chess

03.22.2019

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Group 9

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Software Stack: 667group9chess-env.6e52r7zagg.us-west-1.elasticbeanstalk.com

- Server Provider: AWS - Amazon/Linux 4.8.1
- Web Server: Apache
- Server Side Language: Nodejs 10.15.1
- Framework: Express 4.16.4
- Front-End: Bootstrap 3.4.0

Features

I. User Authentication

The user will be able to log into their account through their gmail account.

II. Main Lobby

Once logged in the user will be brought to the main lobby. The main lobby functions as the main page of the application. From here the user can continue playing games that they are currently participating in as well as see a list of games they can join and that are currently ongoing. The Main Lobby also has a global chat that functions as the main communication board for the website. Here the user can chat with anyone currently active on the site.

III. Chess Game

Once the player joins a game they will be able to play a chess game with another user. On this page the player will be able to interact with the chess board to move pieces. They will also be able to privately chat with the person they are playing against. A list of moves made during the game will also be displayed for the player.

IV. Leaderboard

This is a global page for all users that lists the top ten players based on their ELO. If a user is signed in when they are on this page their own stats will be anchored at the top of the list so the user is able to compare their stats to the leaders.

USERS

email

display_name

user_id

current_games

completed_games

wins

losses

elo

GAMES

game_id

player_one_id

player_two_id

player_turn

move_list

captured_piece_list

last_turn_time

active

CHAT

chat_id

chat_log

update_time

CONTACT

complaint_id

user_id

complaint

date

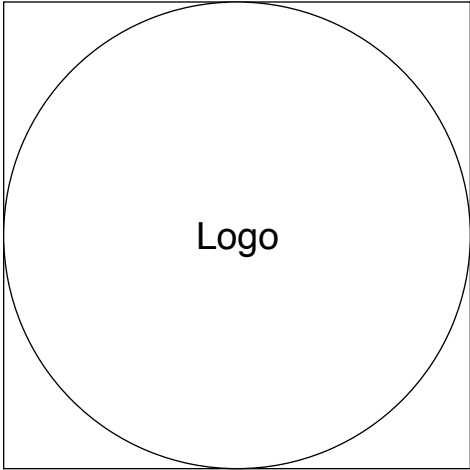
Authentication Page

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graph TD; A[Authentication Page] --> B[Main Lobby]; B --> C[Game]; B --> D[Leaderboard];
```

Main Lobby

Game

Leaderboard



Login through
Google

User Games

- Game #1
- Game #2
- Game #3
- Game #4
- Game #5
- Game #6
- Game #7
- Game #8

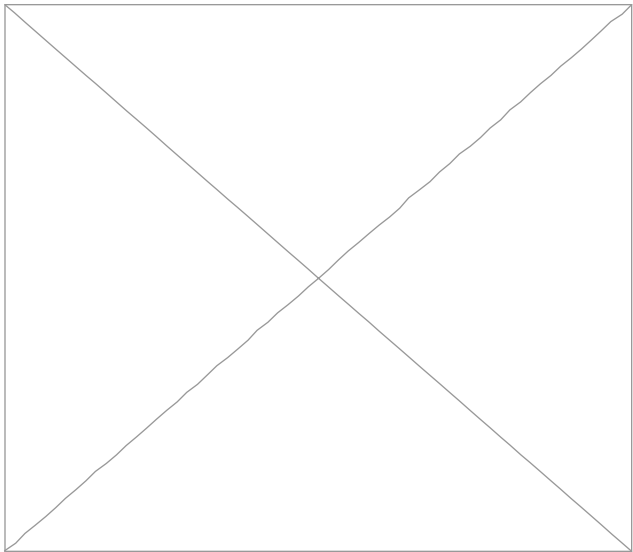
Available Games

Ongoing Games

Online Players

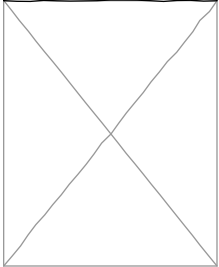
- Player #1
- Player #2
- Player #3
- Player #4
- Player #5

Chat

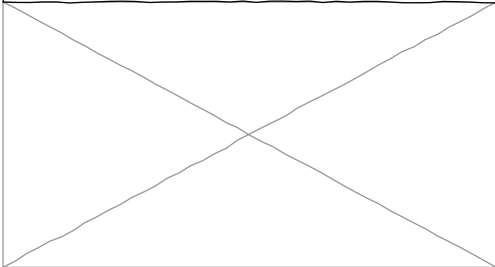


Game Board

Move List



Chat



LOGO

Nav Bar

Anchored Players' Stats

Top Ten Players