

<https://chessboardjs.com/>

https://en.wikipedia.org/wiki/Forsyth%E2%80%93Edwards_Notation

<https://github.com/jhlywa/chess.js/blob/master/README.md>

Title: Naproxen? Ibuprofen? ChessMed? MedChess? Openings

Topic:

Chess opening trainer site. Allows users to practice specific chess openings so they're prepared to practice the theory in their next game.

Audience:

The audience is for beginner and intermediate Chess players who want to memorize their theoretical opening positions.

Design & Style:

Using the chessboard colors as a base, I used Coolers.co to find a color palette mixture of greens and purples to bring the app to life. I plan to make this site easy on the eyes so players can focus on practicing their openings.

- `/* CSS HEX */`
 - `--cafe-au-lait: #b58863ff;`
 - `--wheat: #f0d9b5ff;`
 - `--dark-liver: #3d3a4bff;`
 - `--viridian: #56876dff;`
 - `--dark-spring-green: #04724dff;`

Site Inspirations:

- <https://www.chess.com/home>
- <https://lichess.org/practice/checkmates/piece-checkmates-i/BJy6fEDf/dW7KluoY>

- <https://chess24.com/en/analysis>

Scope:

I plan to have 4 pages:

- Home page
 - Listing access to the practice area, how to use the website depending on skill level, why the site was made, and also leaving my email for people to leave recommendations
- Sign-in page
 - Sign-in page. Signed-in users will be able to create openings, update their openings or their profile information, and delete their openings.
- Practice Page
 - Has the chessboard as well as the pieces that were played. Will output an error message if the user plays the wrong piece for the specific opening.
 - Openings are stored in the database. Separate table for hard-coded openings and user-created openings.
- Learning Page
 - Lists openings, shows an animation of the opening when you play it, and also contains a link to someone explaining how the opening works
 - Can open a new page with that specific opening that has the content in the list item pulled up and allows someone to practice the opening with help from the database.
 - Progress saved for if you've clicked an opening before.

Database:

- What data will be stored in the database?
 - UUID, User Info, Chess Openings
- Where is data coming from?
 - <https://www.365chess.com/eco.php>

- From the user when they make an account

Database Diagram:

The database pdf will be merged with this pdf

Wireframes (minimum of 4 wireframes total):

The wireframe pdf will be merged with this pdf.

Note: The order of the wireframes is 1) Main Page Desktop, 2) Main Page Mobile, 3) Practice Page Desktop, and 4) Practice Page Mobile. Also, the gray boxes are meant to show a potential div structure (and I'm not sure on if I want a background color for those yet or not).

Text to hook user to using my site =D

Chessboard
showing
random
opening being
played out

**Text to hook user
to using my site
=D**

**Chessboard
showing random
openings being
played out**

Chessboard to practice openings, randomly chosen to be either white or black

Name of Opening to Play

Showing the moves made so far, as well as the alternate lines that don't work for the specified opening

Queen's Opening

Opening to Play

Chessboard

**Moves made so
far**

Footer

MySQL Workbench File Edit View Arrange Model Database Tools Scripting Help

ITP303_Assignment3_carlosr5.mwb - MySQL Workbench

Navigator

chessdb

- Tables
 - opening_moves
 - openings
 - openings_has_openi...
 - users
 - users_has_openings
- Views
- Routine Groups

Templates

- timestamps
 - create_time, update_time
- user
 - username, email, password, cr...
- category
 - category_id, name

users

- id INT
- name VARCHAR(45)
- username VARCHAR(45)
- password VARCHAR(64)
- email VARCHAR(45)
- school VARCHAR(45)
- Indexes

users_has_openings

- users_id INT
- openings_id INT
- Indexes

openings

- id INT
- name VARCHAR(45)
- Indexes

openings_has_opening_moves

- openings_id INT
- opening_moves_id INT
- Indexes

opening_moves

- id INT
- move_num INT
- fen_str VARCHAR(90)
- Indexes

users_has_openings - Table

Name: users_has_openings Schema: chessdb

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression
openings_id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column details 'openings_opening_id'

Column Name:

Datatype:

Charset/Collation:

Comments:

Columns Indexes Foreign Keys Triggers Partitioning Options Inserts Privileges

/Users/carlosramirez/Desktop/School Folders/ITP 303/ITP 303 Assignments/final project/ITP303_Assignment3_carlosr5.mwb saved.

