

# JavaFX Chess User Guide

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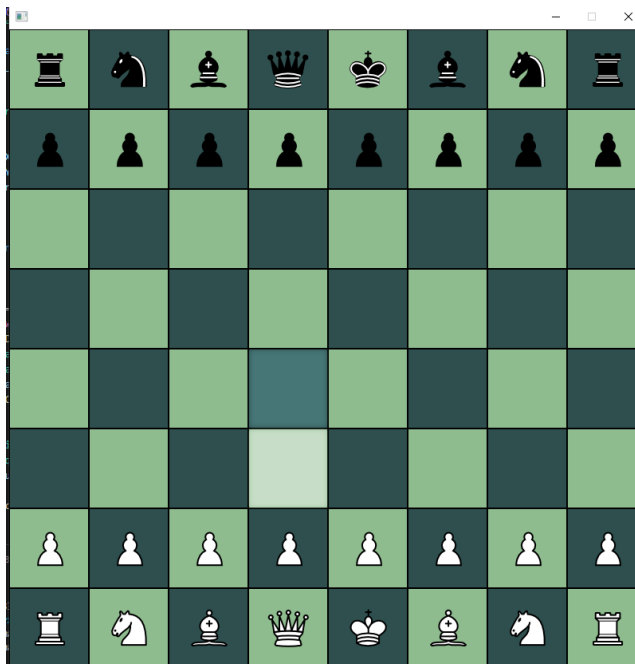
## Description

The program when launched will display a full chessboard and its pieces on their corresponding squares. Each side can take turns moving one piece at a time and each of the chess pieces will move accordingly to what type of piece it is like how it is in the actual game of chess. Pieces are able to capture opposing pieces while the program is running. There is a work-in-progress version of check/checkmate logic, there is pawn promotion, and there is no castling. The game does not end when the king is captured nor when the king is placed in checkmate.

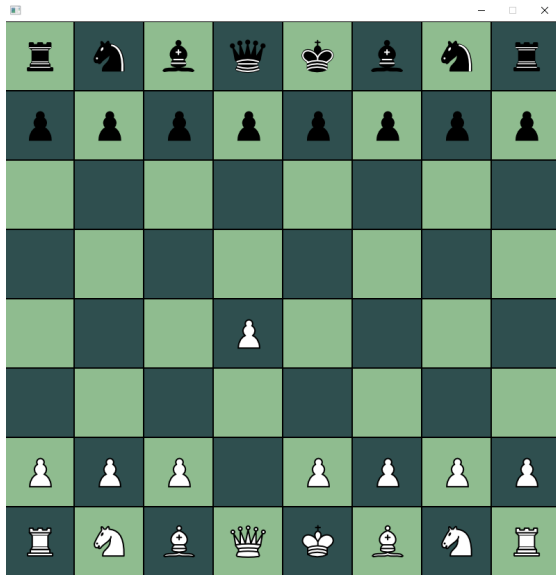
Notable design choices:

- Opted to make an abstract parent piece class since chess pieces are all the same except for their movement and there isn't a blank chess piece either all pieces have a name to them
- There are two sets of event handlers, one that's in `piece.java` and one in `chessboard.java`
  - Reasoning for this is that `piece.java` handles piece capturing while `chessboard.java` handles when the piece is placed on a square

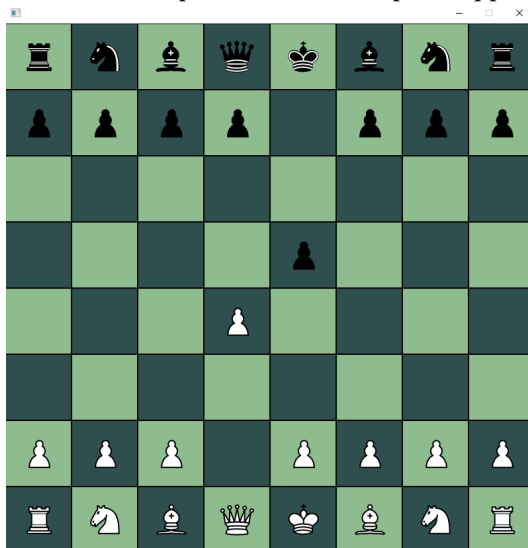
To run the program, run the `App.java` file and it will open up to a freshly set up chessboard.

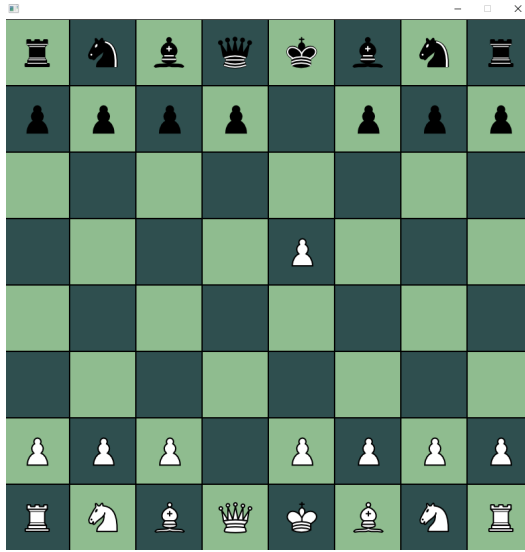


Above displays the squares that the pawn can move to when it is clicked on. The user then can click and drag the pawn to the square to make a move.

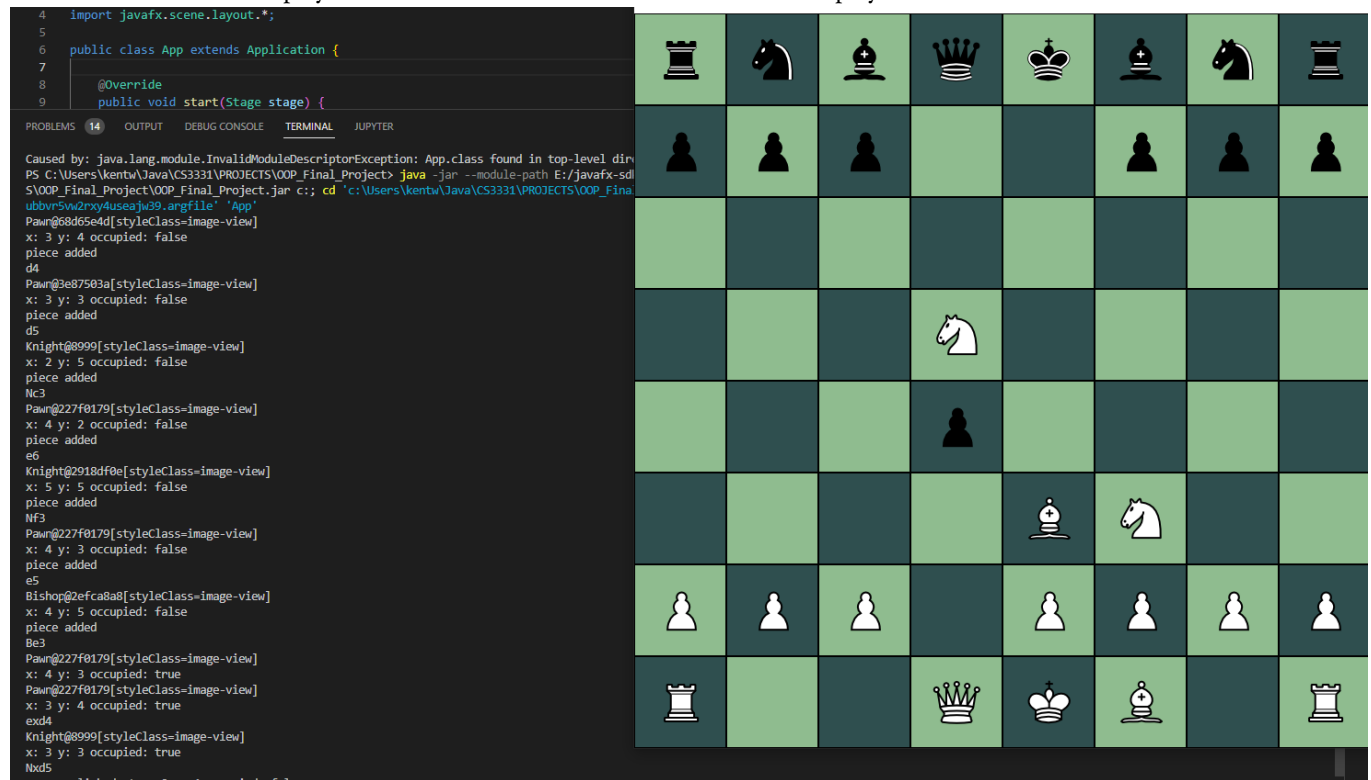


Then when it's the black side's turn, it is unable to move any of the white pieces, only pieces of their own. If the situation arises, pieces are able to capture opposing pieces like in actual chess.





All of the moves that are played are encoded into chess notation and are displayed to the console.



Once a checkmate is achieved, it will display that move into the console. To play another game, restart the project.

## Debugging Collaborators

Piece images were taken from google images

Approximate Hours Spent on Project: 45~