

TCP2201 Project

Trimester 2310 TC3L

by <<GROUP 28>>

GAME : TALABIA CHESS

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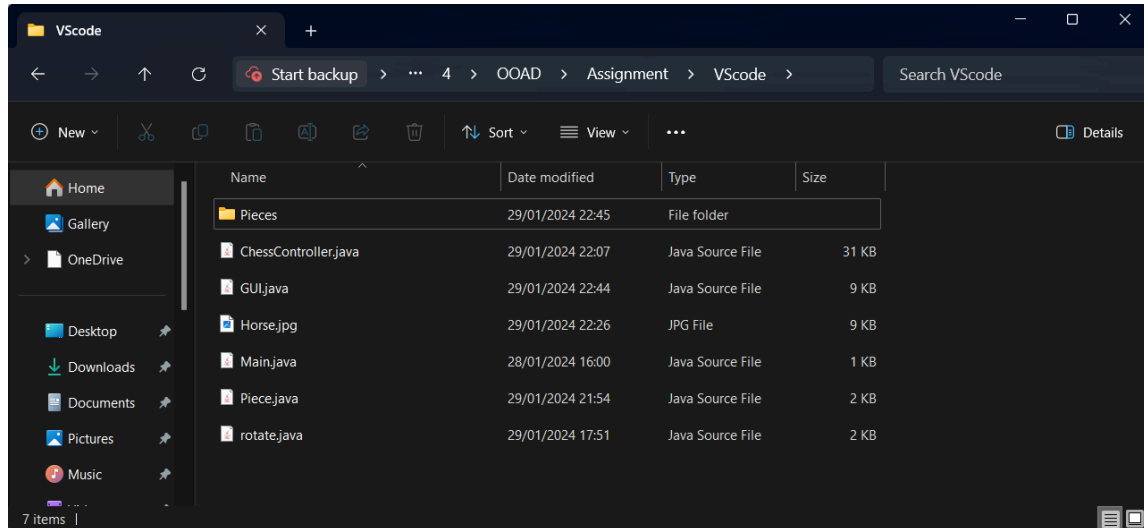
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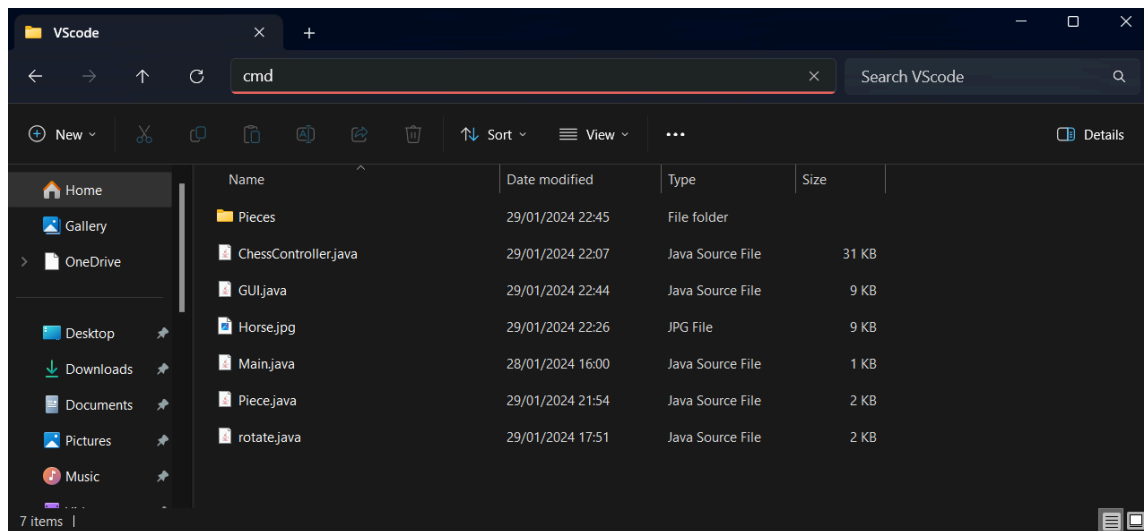
1. Compile and Run Instructions

1.1. Compile and Run with Command Prompt

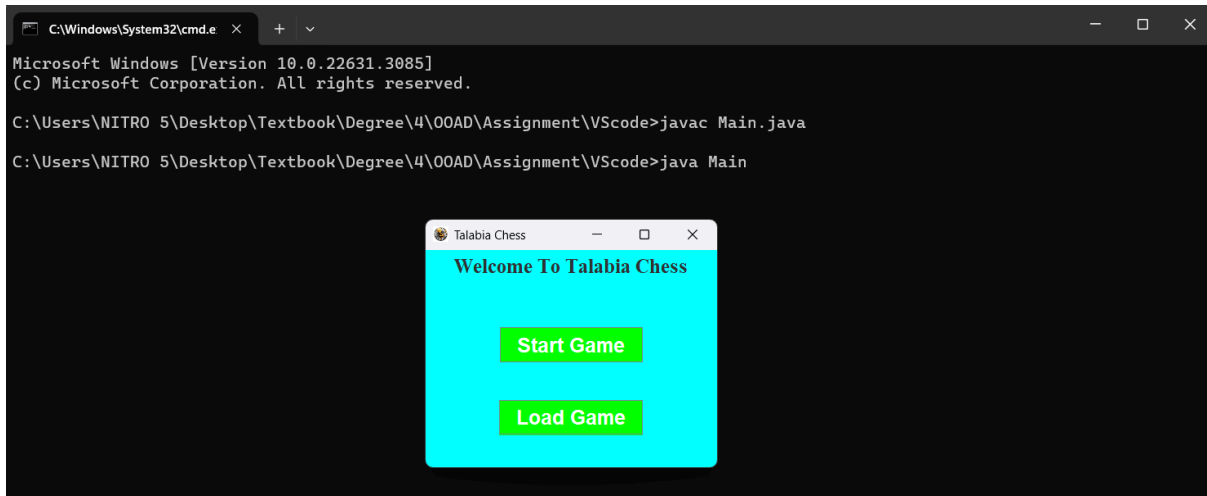
Get the path of where the Main.java is located:



Type '**cmd**' on the path and hit enter:



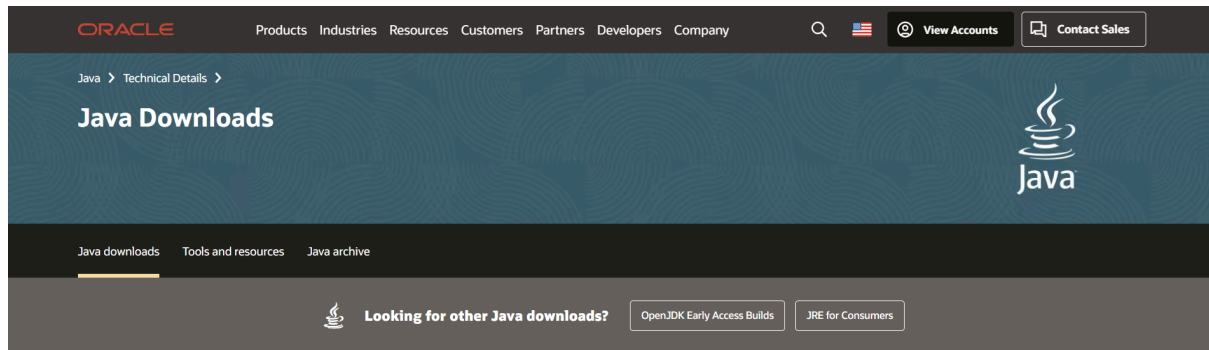
First type '**javac Main.java**' to compile the file.
Then run '**java Main**' to run the game.



1.2. Compile and Run Instructions Visual Studio Code

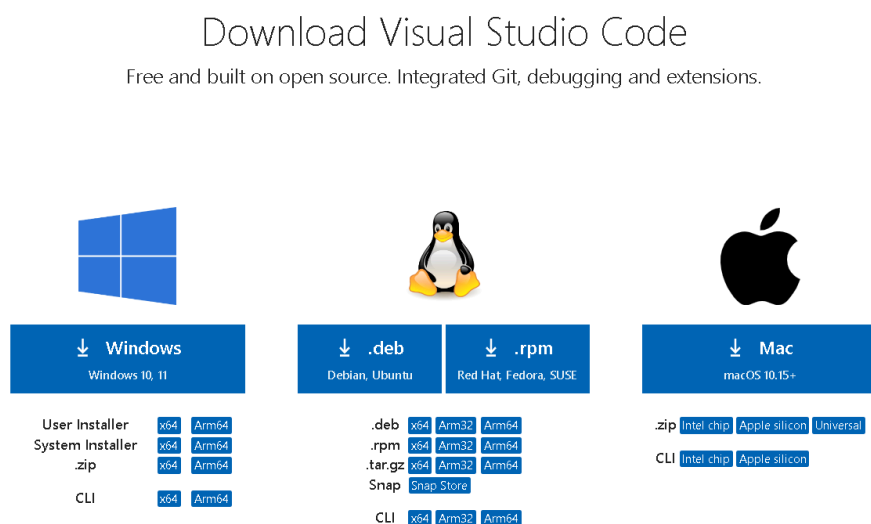
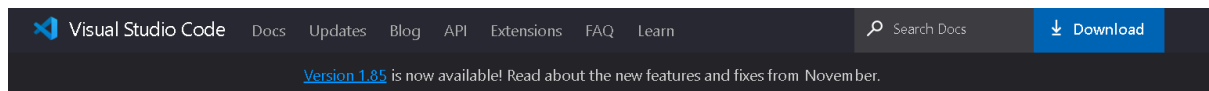
1.2.1. Latest JDK Installation

<https://www.oracle.com/java/technologies/downloads/>



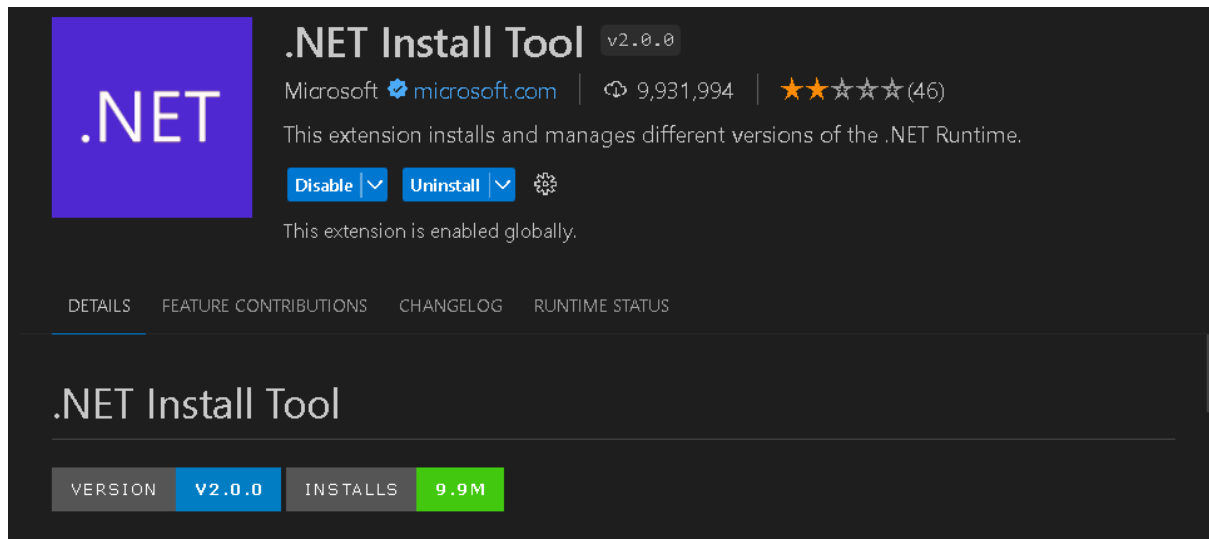
1.2.2. Install Visual Studio Code

<https://code.visualstudio.com/download>

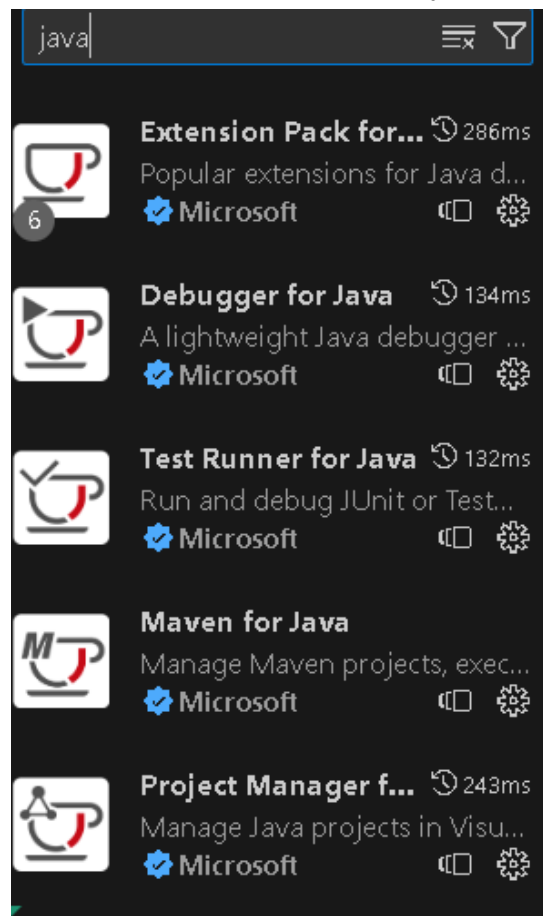


1.2.3. Install Extensions

1.2.3.1. Install .Net Install Tool by Microsoft



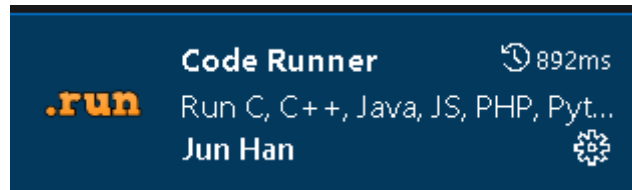
1.2.3.2. Install All Java Extensions by Microsoft



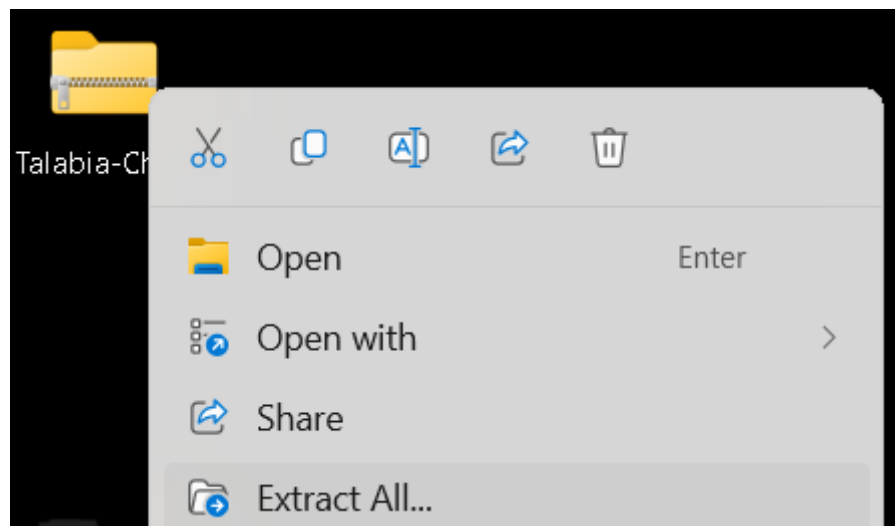
1.2.3.3. Install Language Support for Java(TM) by Red Hat



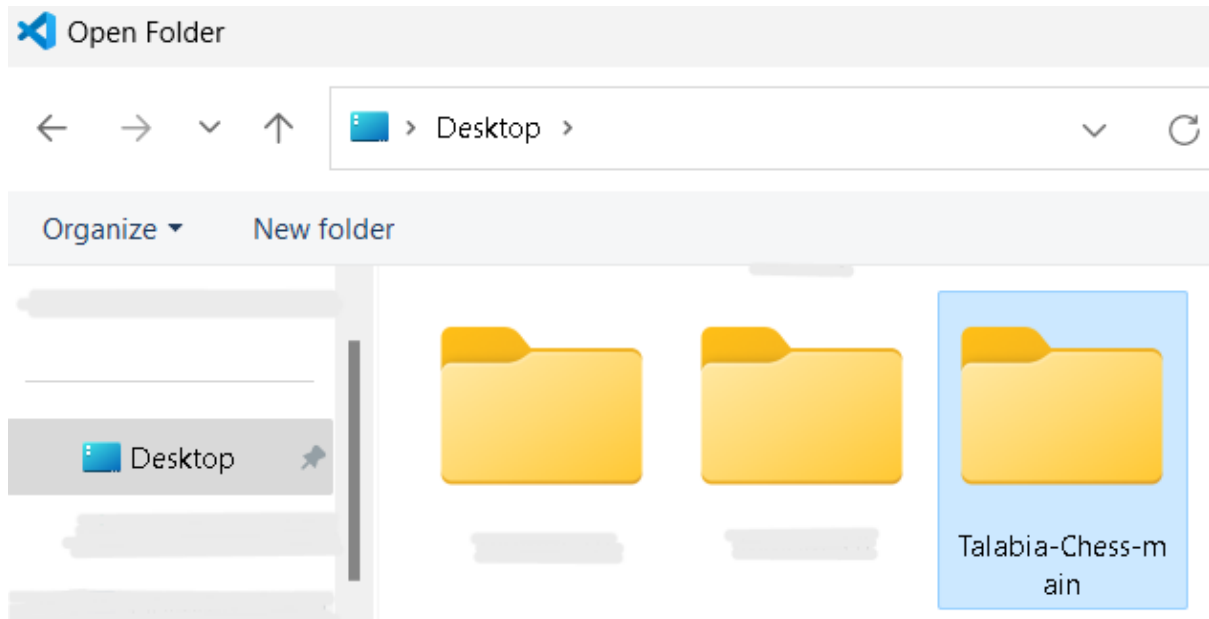
1.2.3.4. Install Code Runner by Jun Han



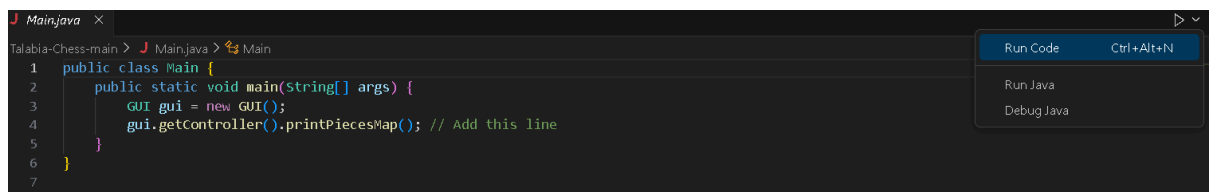
1.2.4. Unzip the folder by extracting all files in it



1.2.5. Open the folder in Visual Studio Code

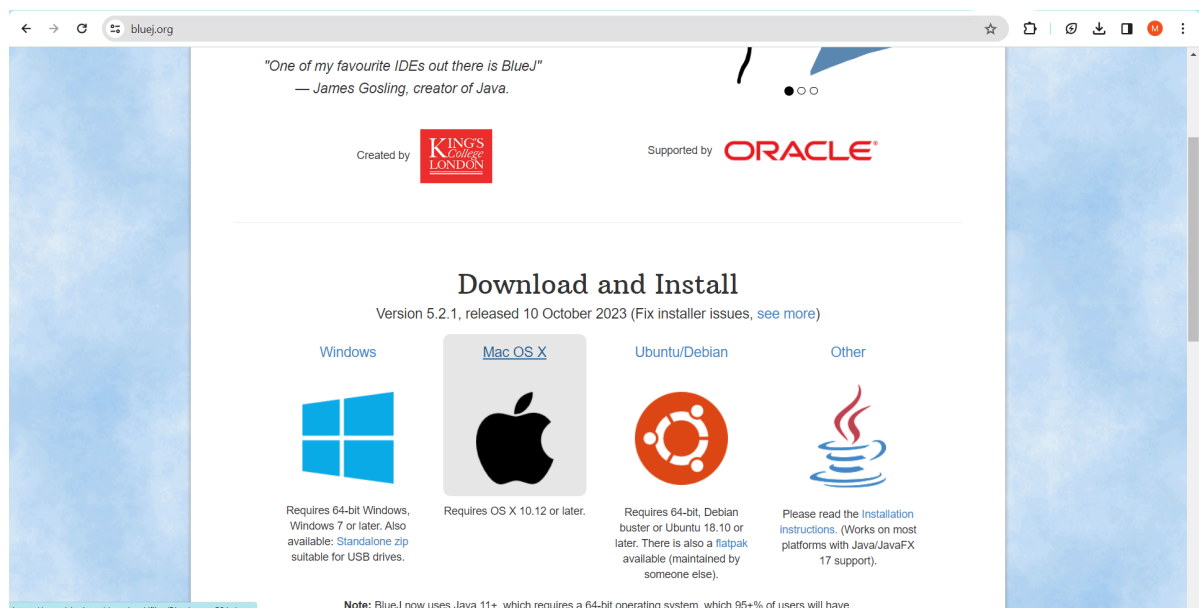


1.2.6. Run the Code at Main.Java

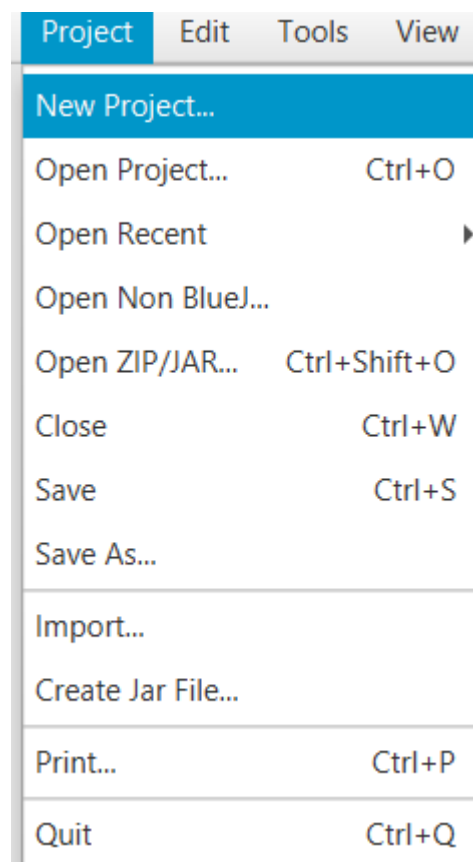
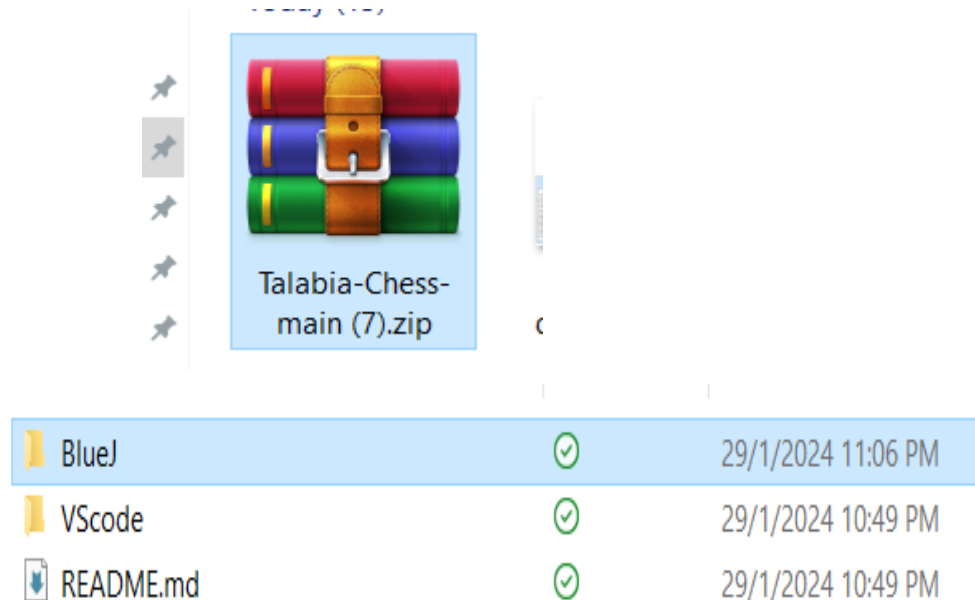


1.3. Compile and Run Instructions BlueJ

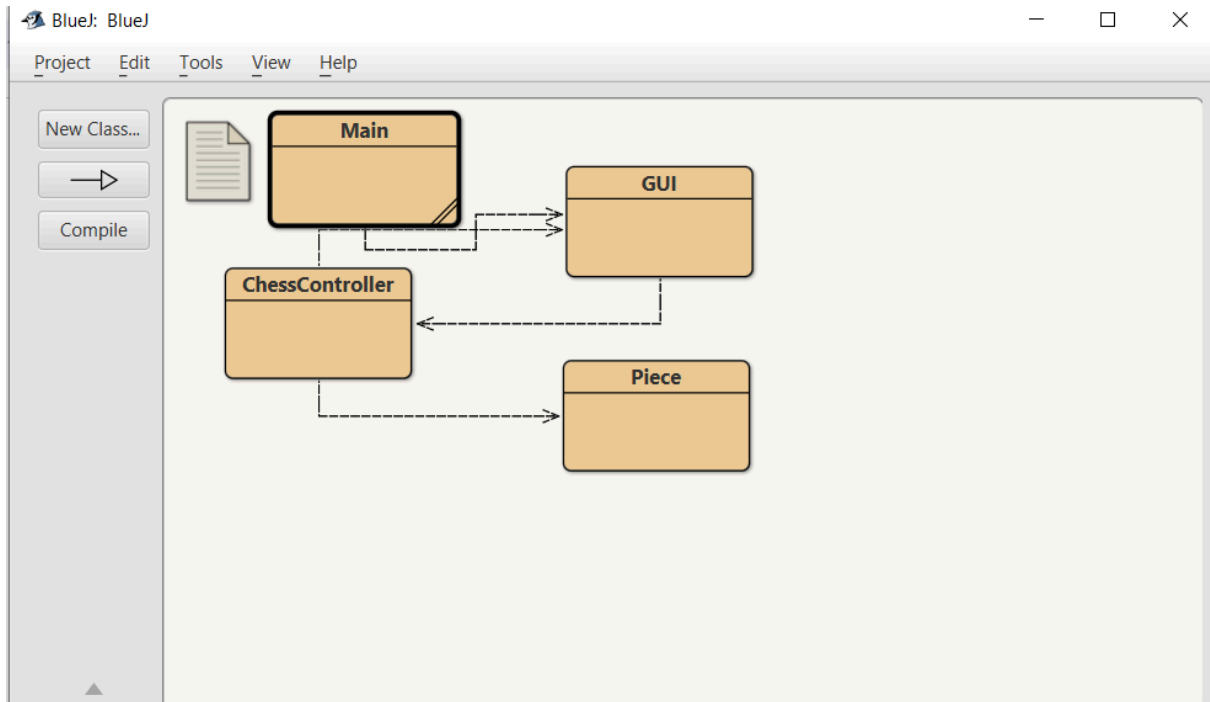
1.3.1 Download BlueJ for your respective Operating System at bluej.org



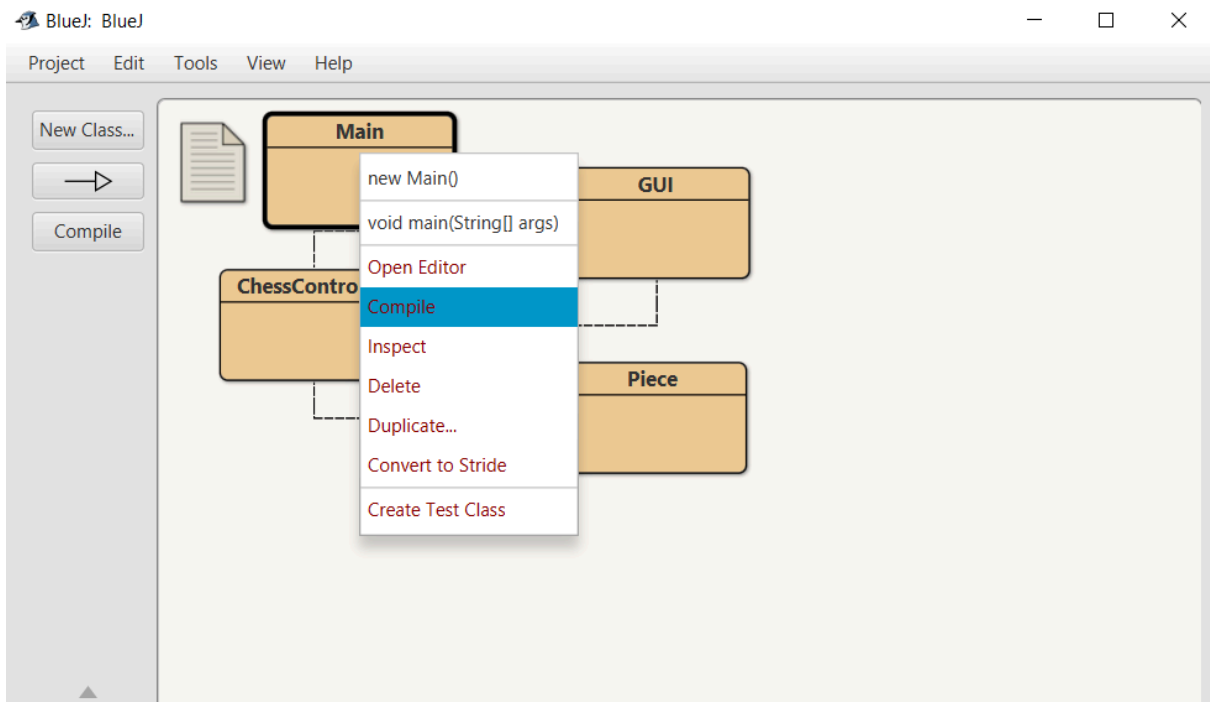
1.3.2 First you will need to extract the Talabia-Chess-main into your respective file than open blueJ and click on the project and click open project. Then you need to select the BlueJ folder.



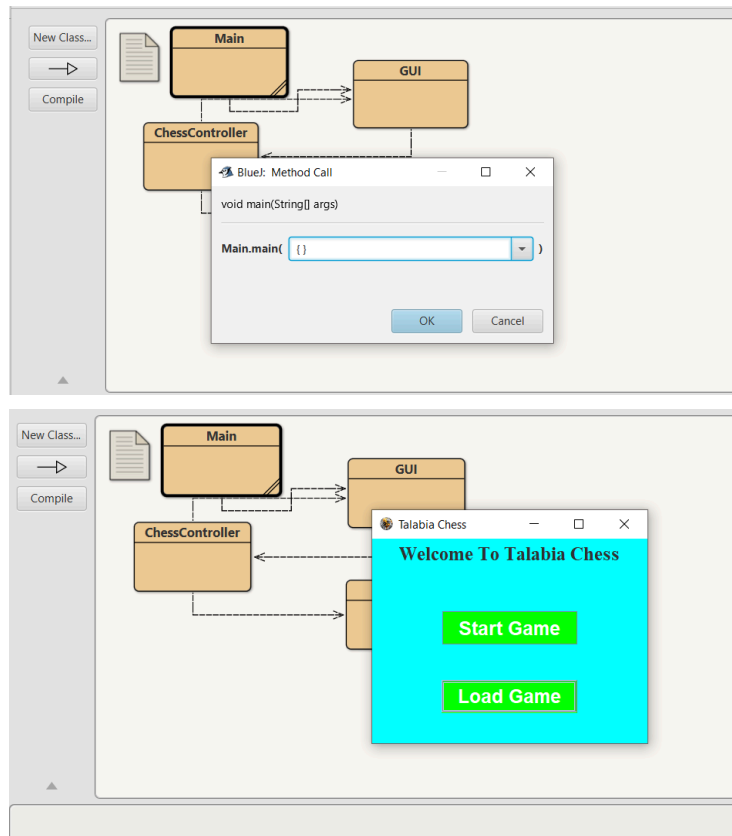
1.3.3 Once you have done all that you will get the all file necessary to run the Talabia game



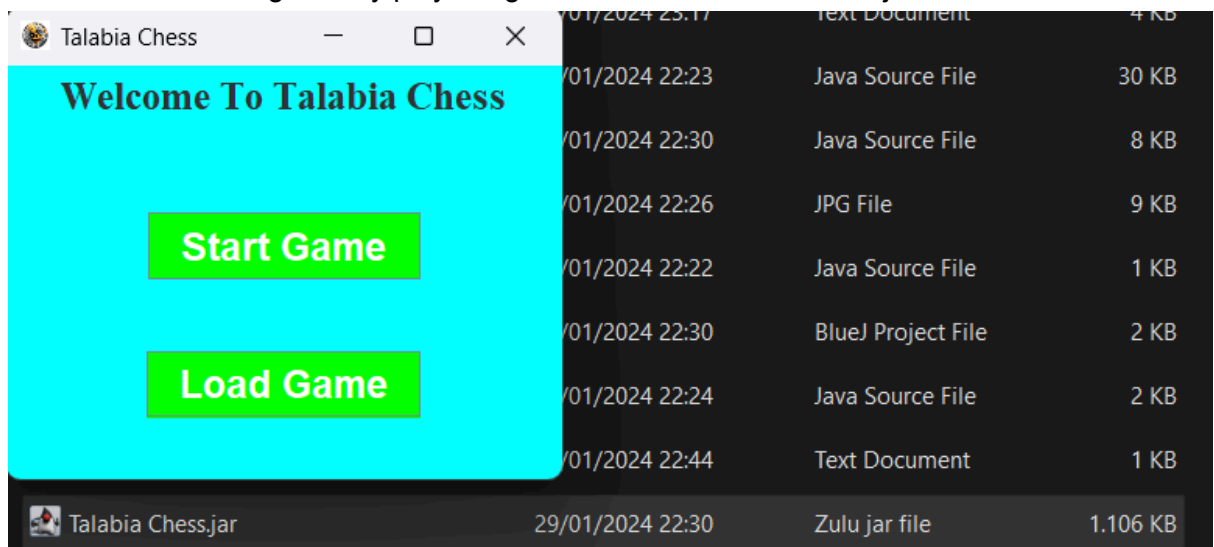
1.3.4 After that, you must left click on the Main.java all click on the compile



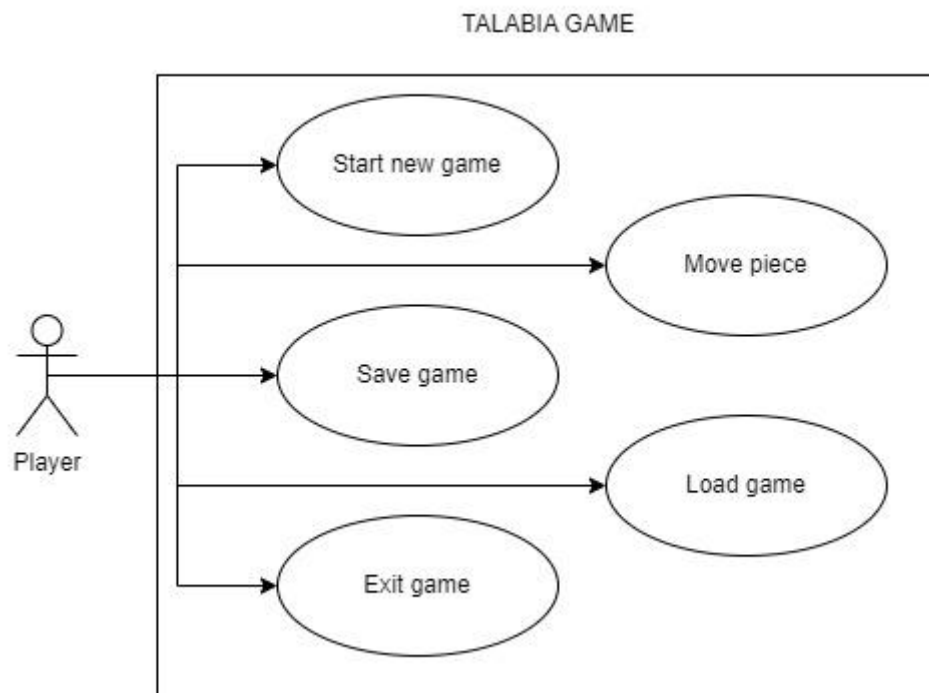
1.3.5 lastly you will need to click on the void main (String[] args) and press enter and finally you will have the game executed.



1.3.6 To straight away play the game run the 'Talabia Chess.jar'.

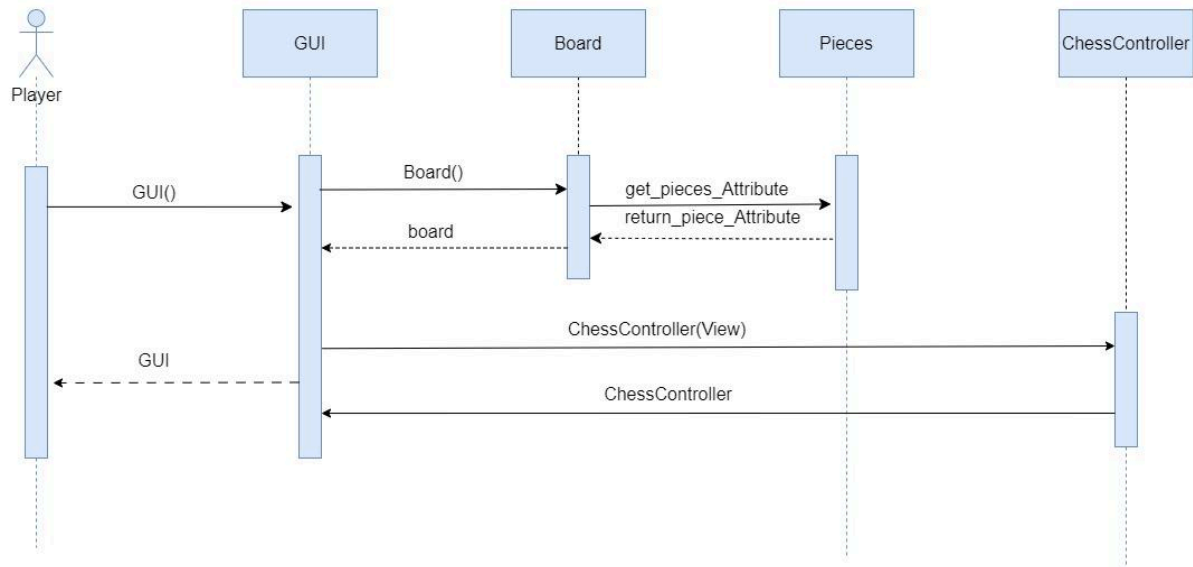


2. UML Use Case

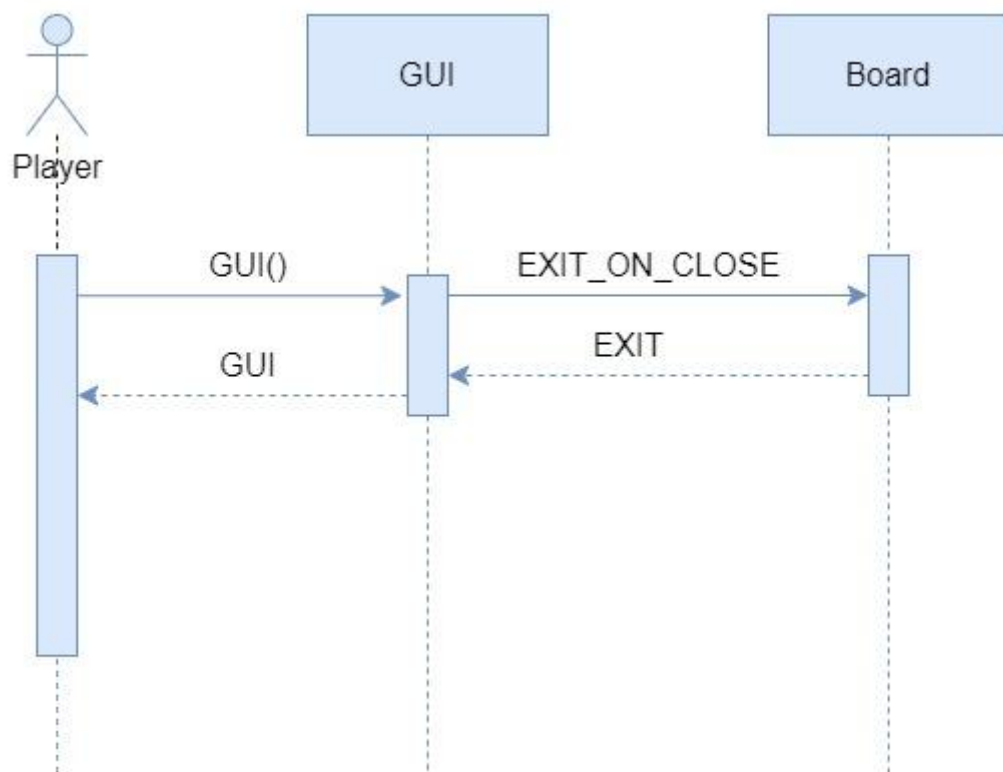


3. UML Sequence Diagram

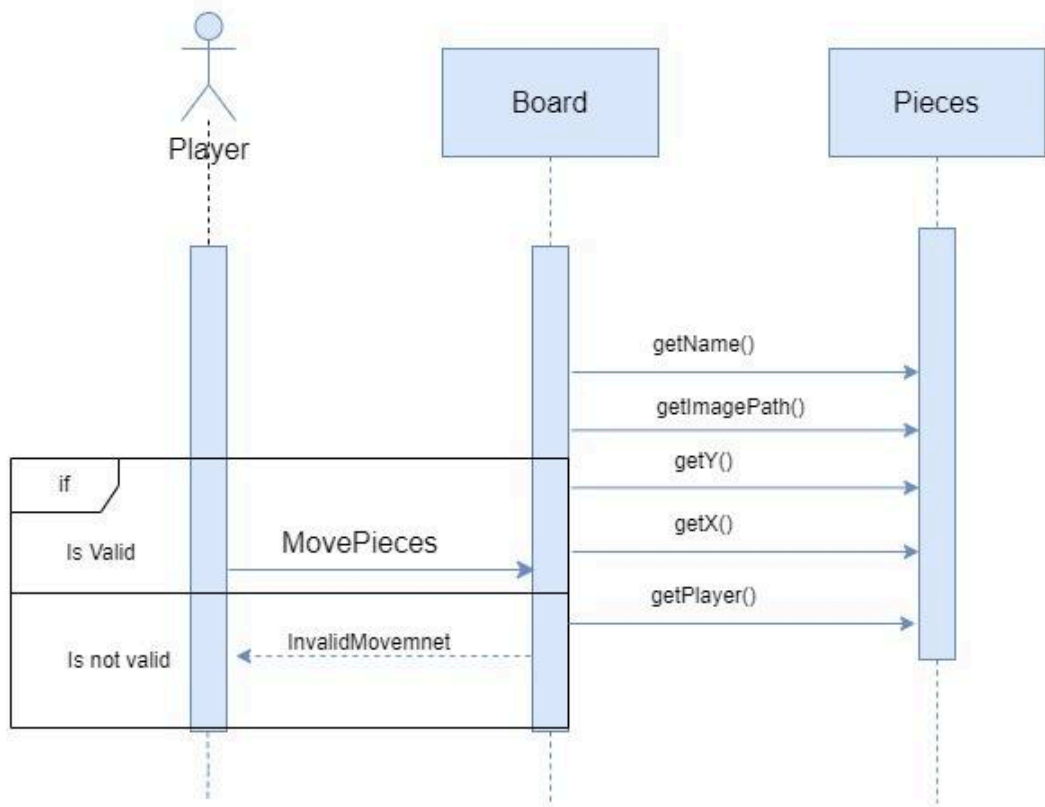
3.1. Start new game



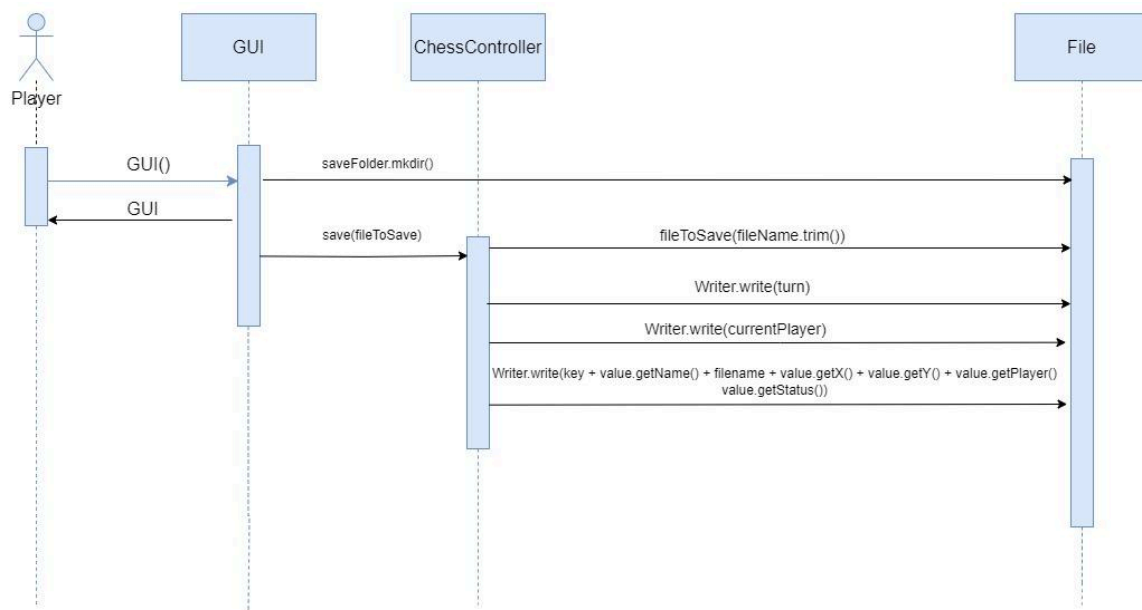
3.2. Exit game



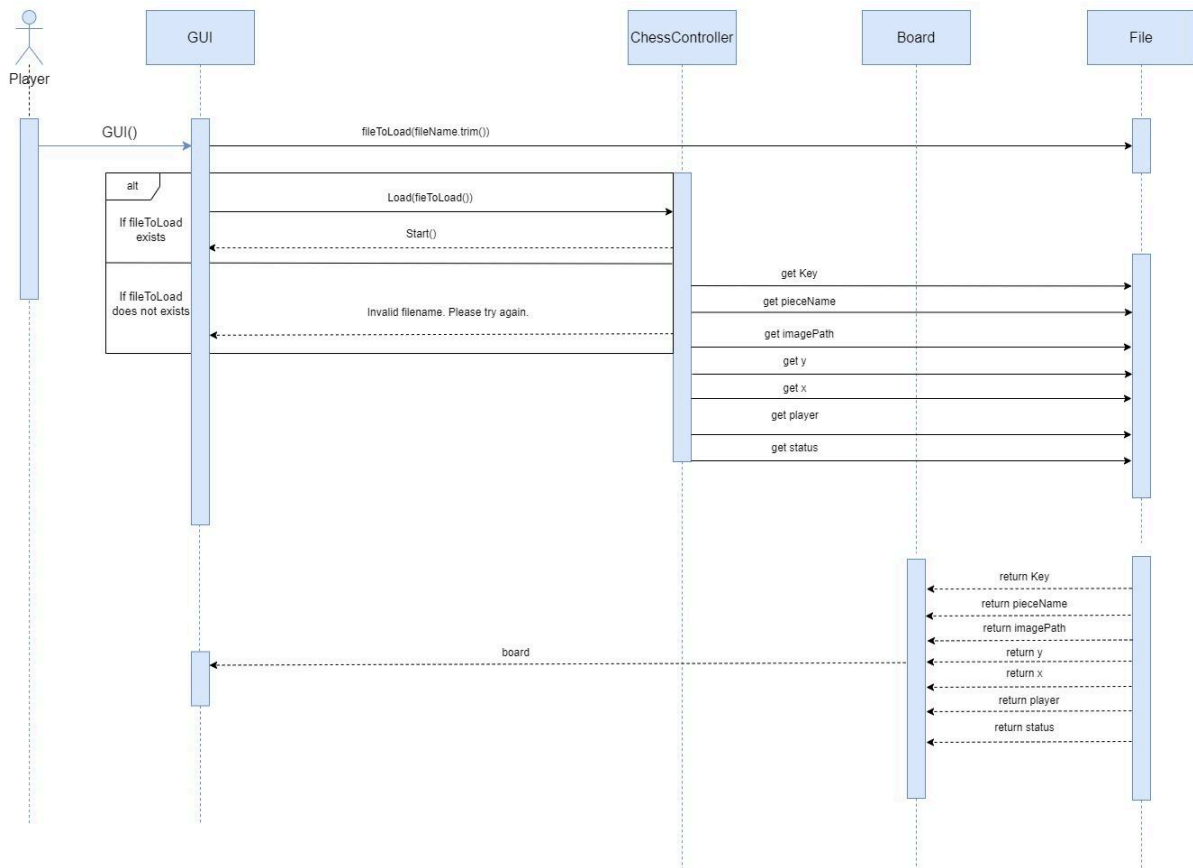
3.3. Move pieces



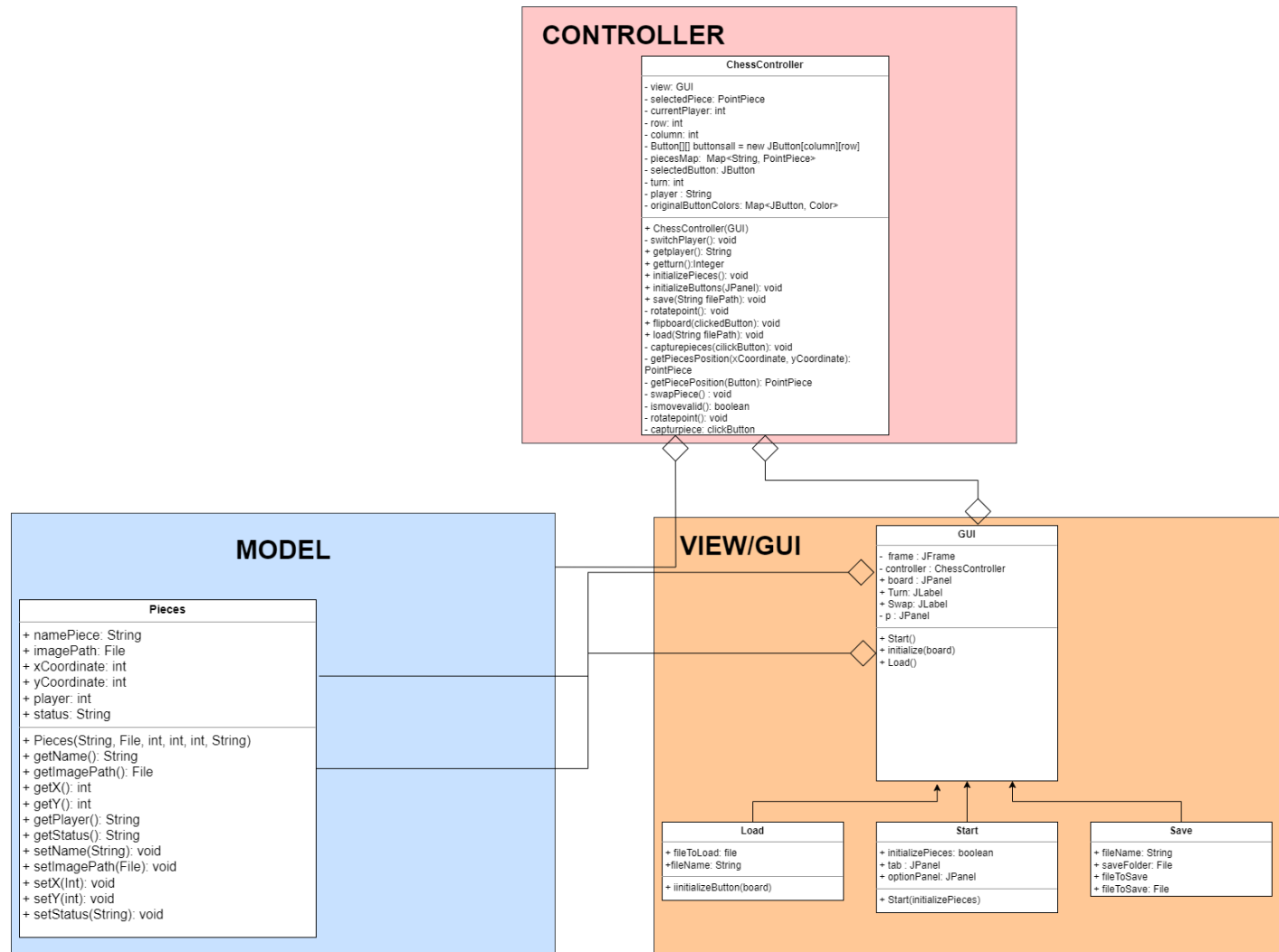
3.4. Save game



3.5. Load game



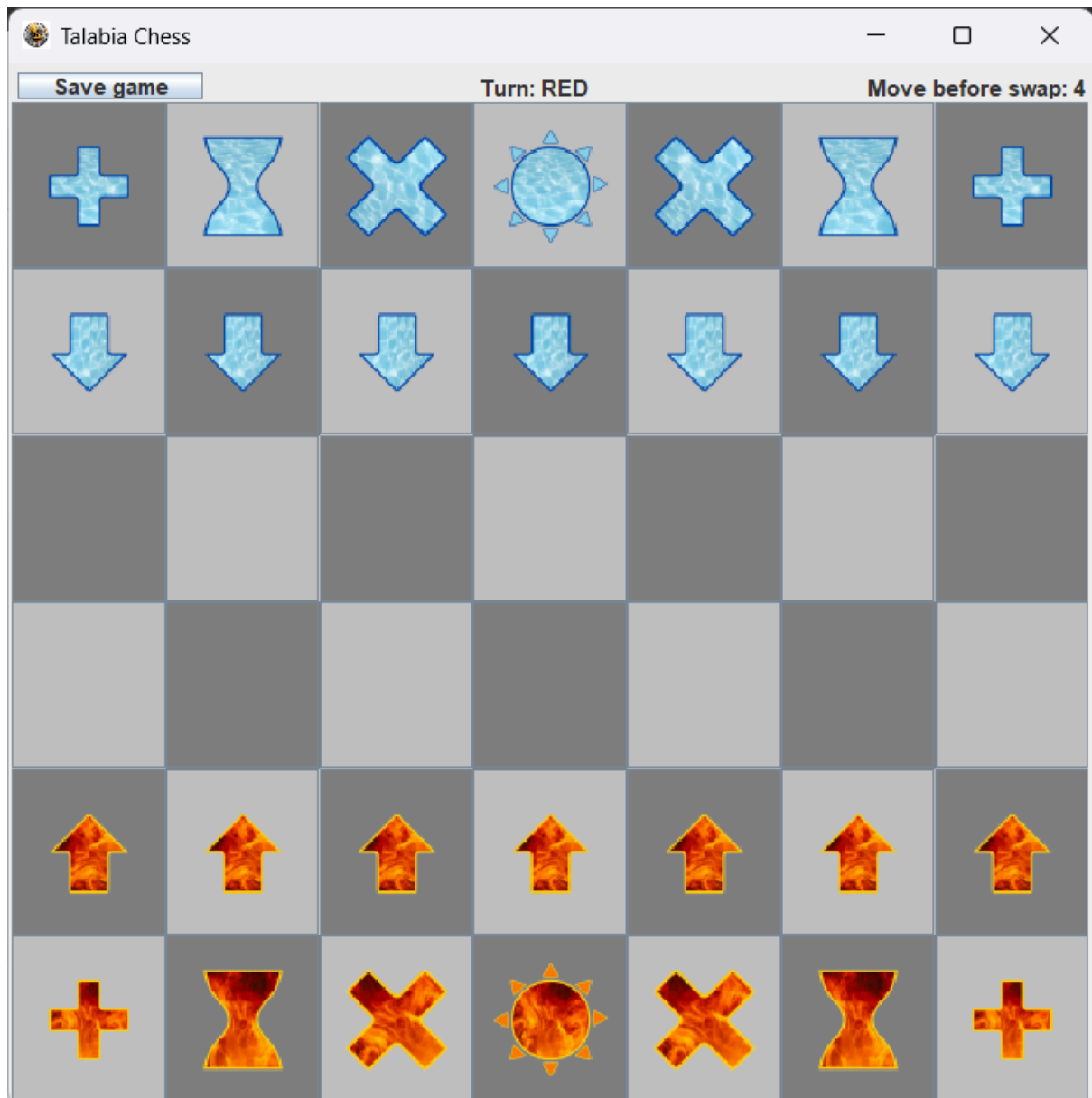
4. UML Class Diagram



5. User Documentation

5.1. Introduction

This board game is called Talabia Chess. This game is a game played between two opponents on opposite sides of a board containing 7x6 squares of alternating colors which are red and blue. Each player has 7 points, 2 pluses, 2 times, 2 hourglasses and 1 sun.



5.2. Pieces

5.2.1. Point

The Point piece can only move forward, 1 or 2 steps. If it reaches the end of the board, it turns around and starts heading back the other way. It cannot skip over other pieces.



5.2.2. Plus

The Plus piece can move horizontally and vertically throughout the board. It cannot skip over other pieces.



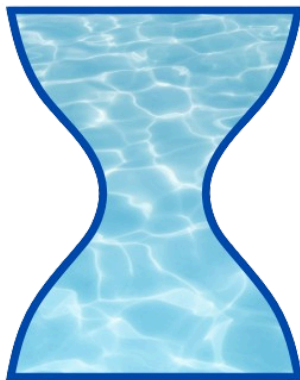
5.2.3. Time

The Time piece can only move diagonally throughout the board. It cannot skip over other pieces.



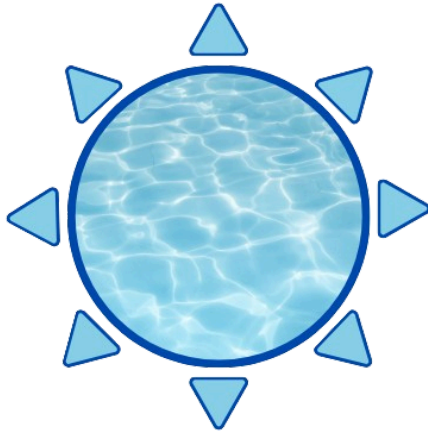
5.2.4. Hourglass

The Hourglass piece moves in a 3x2 L shape in any orientation (kind of like the knight in standard chess.) This is the only piece that can skip over other pieces.



5.2.5. Sun

The Sun piece can move only one step in any direction. The game ends when the Sun is captured by the opposing side.



5.3. Rules

- 5.3.1. After 2 turns (counting one red move and one blue move as one turn), all Time pieces will turn into Plus pieces, and all Plus pieces will turn into Time pieces.
- 5.3.2. The ones that capture the opponent's sun first will become the winner.

5.4. How to play

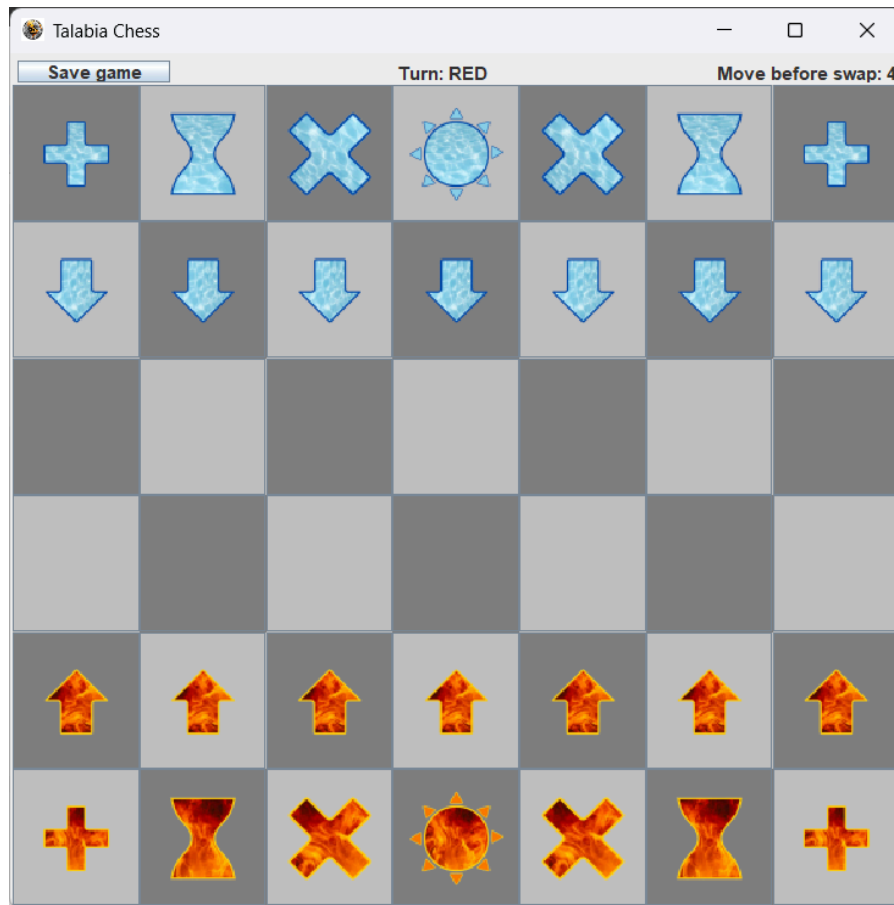
5.4.1. Main menu

When the user starts the game, It will show this main menu. The player can decide to start a new game or load the game that they saved before.



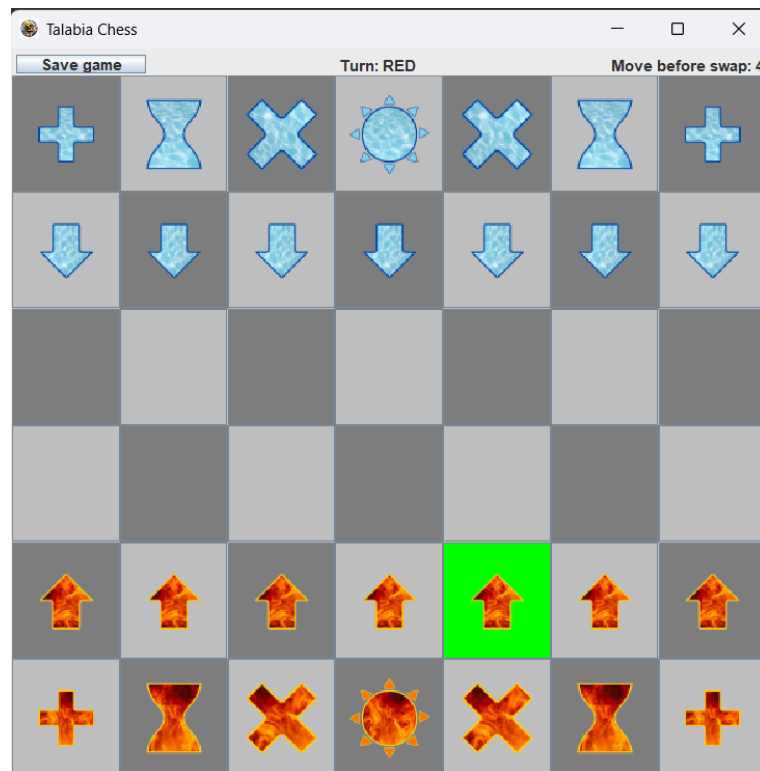
5.4.2. Start game

When the player click button “Start Game”. It will show the board with a list of pieces. The first player will become red and the second player will be blue.

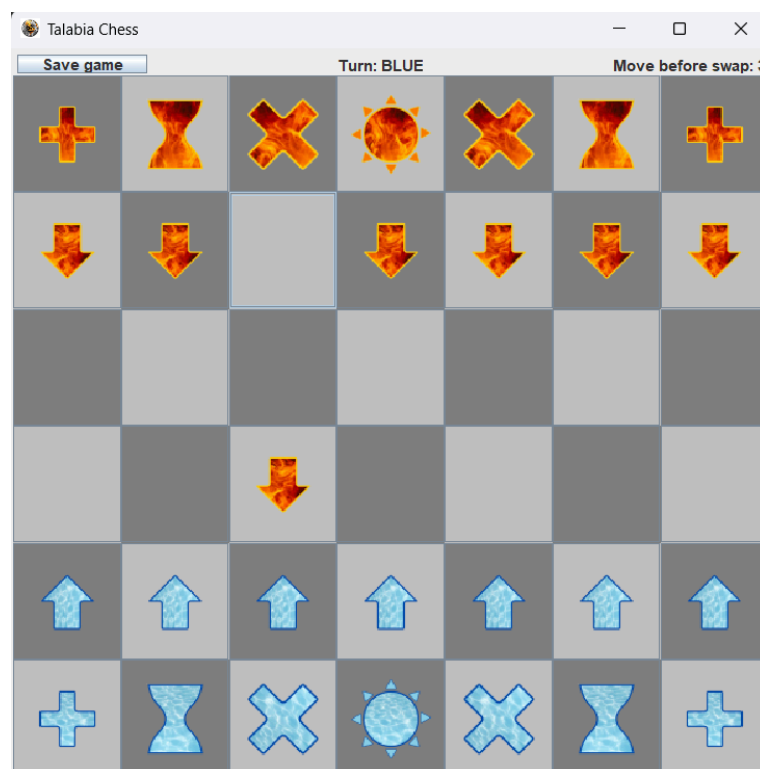


5.4.3. Move piece

When the player clicks the piece to move, the clicked piece's background will turn green. So the clicked piece is ready to move. When the player clicked the tile to move, it will update the board and it will flipped the board for the second player to move.



When the player clicked a piece, the clicked piece's background turned green.

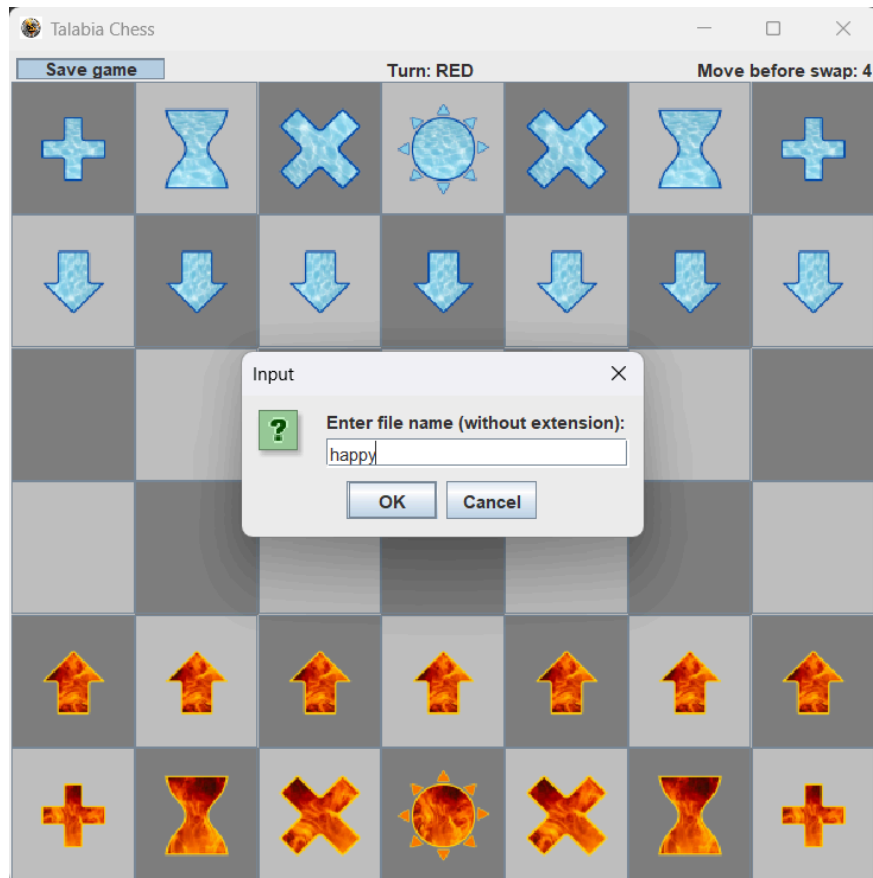


The board update the clicked piece's new coordinate and flipped the board for the second player to move

5.4.4. Save game

To save the game, click the button beside the turn and enter the file name.

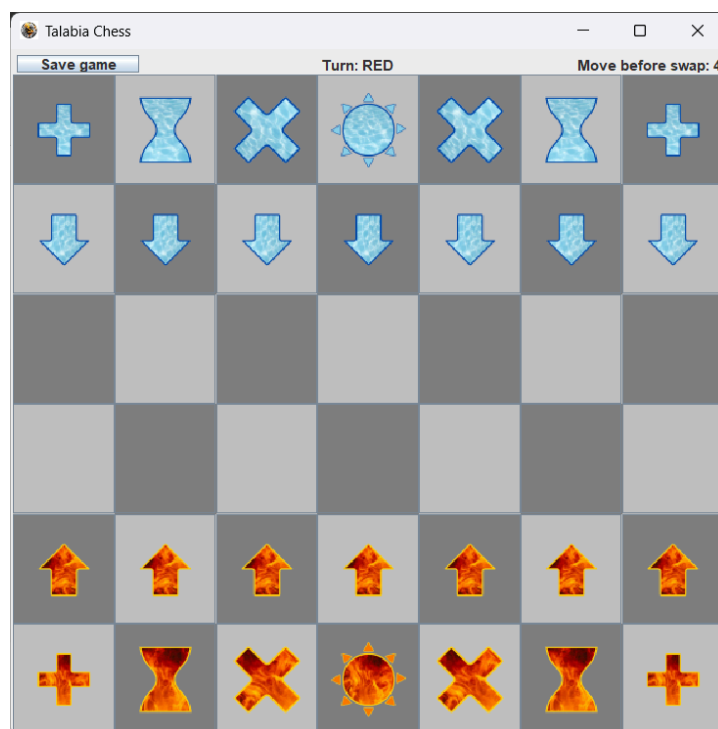
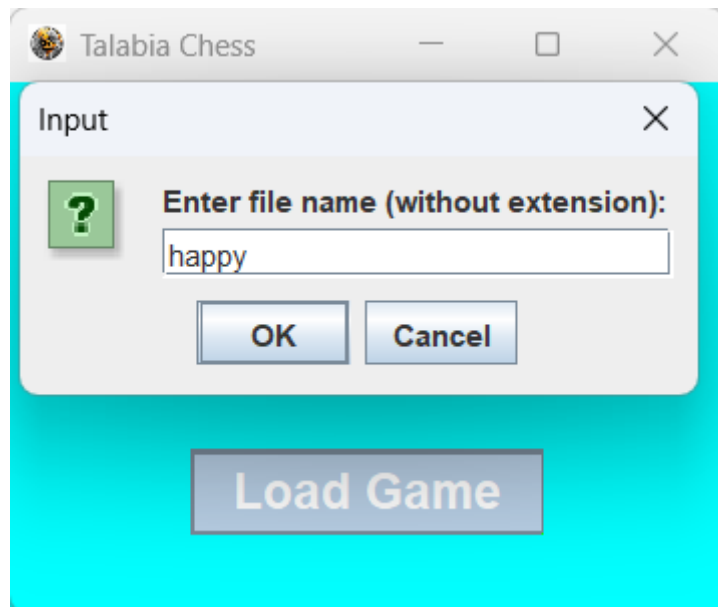
Example: happy



5.4.5. Load game

Click the "Load Game" button. It will require the player to input the file name that they saved before in the txt file. Then, it will show the board.

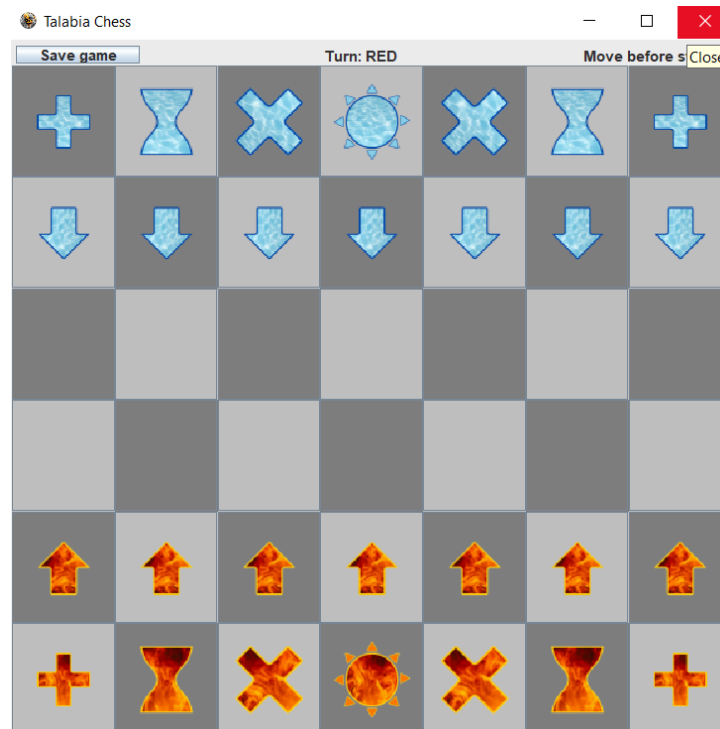




5.4.6. Exit game



Players can exit the game in the main menu GUI.



Players can also exit the game after the game has already started.