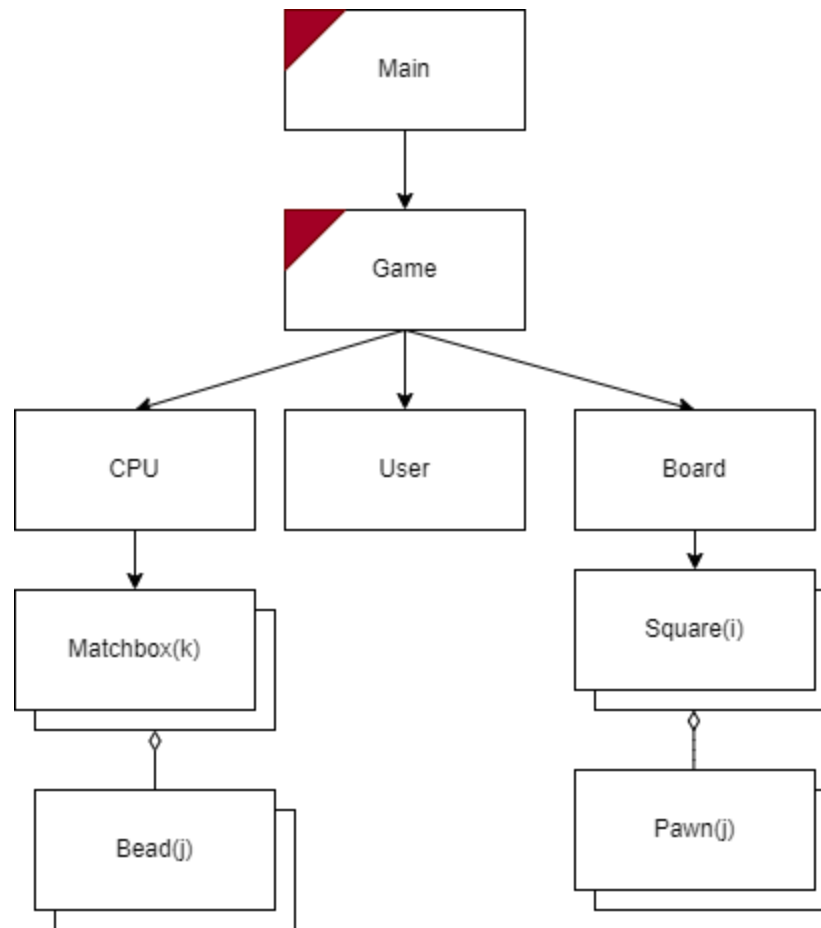
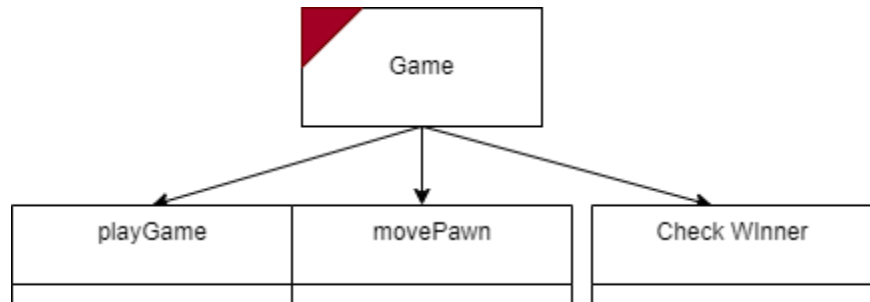


## Object Diagram:



## Object: Game



### Description:

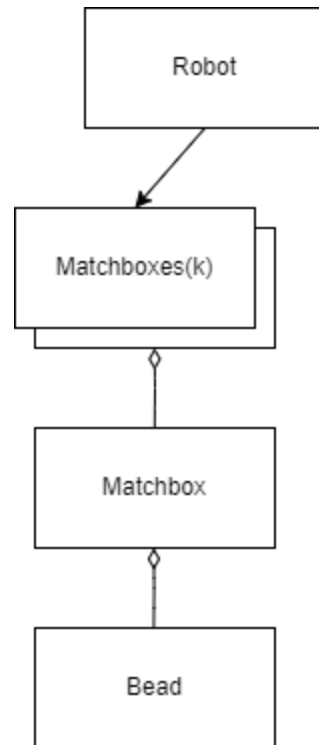
Game will be the first Object called by Main after a mode is selected. This displays the game board and allows Hexapawn to be played.

- playGame(): Allows an instance of a User or Robot to play their turn.
- movePawn(): Moves a pawn from one square to another after a User or Robot action. If the user is a Robot, then it make a move based on a selected Bead.
- checkWinner(): Determines if a winner has been decided. If so, resets the game and removes last bead from the robot.

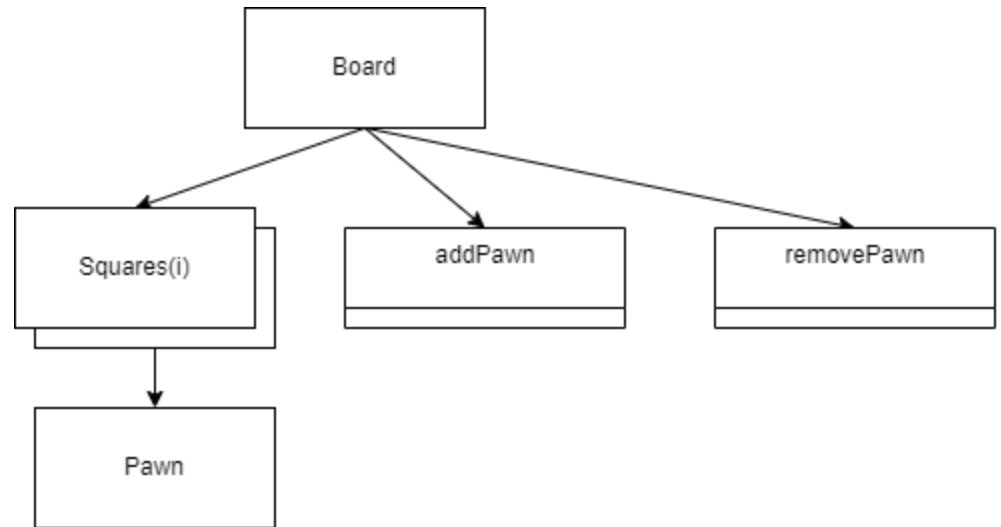
## Object: CPU

### Description:

Robots are given an array of Matchboxes, which are given a number of beads based on their corresponding board state.



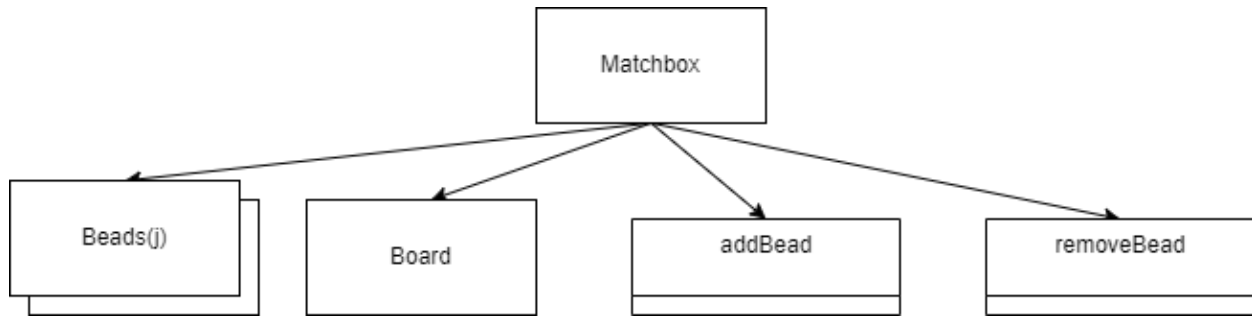
## Object: Board



Description: A board will be a collection of squares, each square being a location on the board.

- **addPawn():** Adds a pawn to a given square on the board.
- **removePawn():** Removes a pawn from a given square on the board

## Object: Matchbox



### Description:

A matchbox will take an instance of a pre-defined board and add beads for each available move on that board. There should also be a function for removing a bead from the matchbox

## Object: Square

### Description:

A Square object will have values for it's x and y position relative to a board and needs getters to retrieve the Pawn currently occupying that square.

## Object: Pawn

### Description:

A pawn will be represented by a circle with values for it's x position and y position. Pawn type will be determined by color.

## Object: Bead

### Description:

A Bead will contain two squares (one being the origin square and the other being the possible move). Getters are needed to retrieve these squares. Beads will be represented by a unique color.