Use case: placePiece

Iteration: 1

Primary Actor: Player

Goal in context: Allow the player to place/move a piece

Preconditions: There is a game ongoing between the player and another player, and it's this

player's turn

Trigger: player is ready to make a move

Scenario:

1. Player chooses piece to move

2. Player chooses cell on board for piece to move to

Post conditions: If cell is open and move is legal based on piece movements, piece is placed in that cell

Exceptions:

1. Move is illegal (cell is taken or piece movement does not allow for piece to go there in the case of chess or checkers)

Priority: High

When available: when it is player's turn

Frequency of use: every turn so long as the game is ongoing

Channel to actor: Controller class, player chooses piece and placement

Secondary actors: N/A

Channel to secondary actors: N/A

Open issues: N/A

Use case: surrender

Iteration: 1

Primary Actor: Player

Goal in context: allow player to surrender the game

Preconditions: there is a game ongoing between the player and another player

Trigger: player wants to surrender

Scenario:

- 1. Player thinks they cannot win
- 2. Player presses surrender button

Post conditions: Game ends, player gets a loss, enemy player gets a win

Exceptions:

1. N/A

Priority: Medium

When available: all game

Frequency of use: not often, likely rarely

Channel to actor: Controller class, GUI button to surrender

Secondary actors: N/A

Channel to secondary actors: N/A

Open issues: N/A

Use case: inCheck

Iteration: 1

Primary Actor: Player

Goal in context: player is in check in chess

Preconditions: Enemy player moved a piece in a way where it puts the King piece at risk but can be

defended

Trigger: King is then in check

Scenario:

- 1. Enemy player's move puts player's king in check
- 2. Player is blocked from doing any moves that would not move king to safety or block the check with another piece

<u>Post conditions:</u> Player must stop the check either by moving the king out of the way or blocking the check with another piece

Exceptions:

1. There is no way for the player to save the king, making this a checkmate not a check

Priority: High, required for proper chess functionality

When available: all game

Frequency of use: often

Channel to actor: Controller class

Secondary actors: N/A

Channel to secondary actors: N/A

Open issues: N/A