Choosing Difficulty

Primary Actor: Player

Stakeholders and Interests:

 Player: Wants to select the difficulty of the CPU players for the following instance of Blockus

Precondition:

- The player has compiled the game
- The player has run the game
- At least one of the players is a CPU player

Success Guarantee (Postconditions):

• The player has selected the level of difficulty for their CPU opponents. Gameplay begins, with the difficulty of the CPU players as was selected.

Main Success Scenario:

- 1. The player indicates that they wish for there to be at least one CPU player. [Alt1: There are no CPU players]
- 2. The system presents the player with a choice of three difficulty settings: Easy, Medium, and Hard.
- 3. The player selects one of the levels of difficulty.
- 4. The system records the choice of the player
- 5. The system updates the UI to show the players choice. [Alt2: The player chooses another difficulty setting] [Use case ends]
- 6. The player sets all other settings as they desire.
- 7. The player indicates that they wish to begin the game.
- 8. The system presents the board.
- 9. The system creates computer players
- 10. The system sets the difficulty of the created computer players to the chosen difficulty.

Alternative Flows:

Alt1: There are no CPU players

1. The player chooses the number of human players (Use case resumes at Step 6)

Alt2: The player chooses another difficulty setting

1. The recorded difficulty setting is replaced by the newly selected difficulty setting.

Exceptions:

• If the player doesn't choose a difficulty setting the play button doesn't begin gameplay, and a popup window appears informing the player that they must select a difficulty before proceeding.

Open Issues:

• Will the player choose the number of human players before or after CPU players?

Notes:

• The use case ends at "[Use case ends]". Everything beyond that point is there to give context and make it more understandable.