Use Case Name: "Setup Players"

**Primary Actor:** User

#### **Stakeholders and Interests:**

User: Wants to add three other players, who are either human or the computer. Wants the
process to be clear and simple. If a user wants to play against a computer player or computer
players, they need to be able to choose the same difficulty for all the computer players.

**Preconditions:** The user chose the option to start a new game.

The user has chosen to play on either on a simple board or a complex board.

## **Success Guarantee (Post-conditions):**

1. User has successfully chosen all player settings for the game.

### **Main Success Scenario:**

- 1. The system gives the user the opportunity to choose either a human or computer player for the three other players of the game.
- 2. The system shows what player is fixed to a certain robot with a certain colour and shape.
- 3. The system shows the user the default selection for all players is currently "Human Player".
- 4. The system shows the user the default setting for the computer's difficulty as "Easy".
- 5. The system records the default selections.
- 6. The system shows the user the opportunity to start the game.
- 7. The user chooses to start the game. [Alt1: The user wishes to change a player's type from human to computer.] [Use Case Ends]

#### **Alternative Flows:**

*Alt1:* The user wishes to change a player's type from human to computer.

- 1. The user selects which player they wish to change from human to computer.
- 2. The system records the new selection. [Alt 2: The user wishes to change a player's type from computer to human] [Alt 3: The user wishes to change the difficulty from easy to hard] [Alt 4: The user wishes to change the difficulty from hard to easy.]
- 3. Flow resumes at Main Success Scenario Step 6.

Alt2: The user wishes to change a player's type from computer to human.

- 1. The user selects which player they wish to change from computer to human.
- 2. The system records the new selection. [Alt 1: The user wishes to change a player's type from human to computer] [Alt 2: The user wishes to change a player's type from computer to human] [Alt 3: The user wishes to change the computer's difficulty from easy to hard] [Alt 4: The user wishes to change the computer's difficulty from hard to easy.]
- 3. Flow resumes at Main Success Scenario Step 6.

Alt3: The user wishes to change the computer's difficulty from easy to hard.

1. The user selects the hard computer difficulty.

- 2. The computer records the new selection. [Alt 1: The user wishes to change a player's type from human to computer] [Alt 2: The user wishes to change a player's type from computer to human] [Alt 4: The user wishes to change the computer's difficulty from hard to easy.]
- 3. Flow resumes at Main Success Scenario Step 6.

Alt4: The user wishes to change the computer's difficulty from hard to easy.

- 1. The user selects the easy computer difficulty.
- 2. The computer records the new selection. [Alt 1: The user wishes to change a player's type from human to computer] [Alt 2: The user wishes to change a player's type from human to computer] [Alt 4: The user wishes to change the computer's difficulty from easy to hard.]

**Exceptions:** If the system is unable to retrieve, record or provide details then the system informs the user there has been an error, and the use case ends.

**Special Requirements:** User interface must be designed in a way that takes into account users with colour deficiencies.

# **Open Issues:**

- How to determine if we need to implement the difficulty setting or not before starting the game (if no player is a computer).