

# **Set Up a Game**

**Primary Actor:** user/player

## **Stakeholders and Interests:**

- User/player: wants to play the game without facing any glitches/bugs with the appropriate number (2-4) of human and computer players, wants to view the winner of the game, wants the process to be smooth and simple.

## **Preconditions:**

- The user/player is able to run the game.

## **Success Guarantee (Postconditions):**

- The game begins and displays all the options (no. of players, difficulty level, color profile, etc.) for the player to choose from.

## **Main Success Scenario:**

1. The system properly starts and displays all the options such as *Start New Game*, *Load Game*, *Quit*. [Alt1: User selects Load Game] [Alt 2: User selects Quit]
2. The user selects the option to start a new game.
3. The system displays an option for the number of human and computer players playing.
4. The user selects the number of human and computer players playing. [Alt3: The user chooses no computer players]
5. The user selects the difficulty level of the computer player(s). [Alt4: The user selects 'easy' difficulty] [Alt5: The user selects 'hard' difficulty]
6. The system displays an option for visually impaired individuals.
7. The user selects the options accordingly.
8. The system provides the human players with the options to choose the color of their cones.
9. The user(s) select the color of their cones.
10. The system begins the game.

## **Alternative Flows:**

*Alt1: User selects Load game*

1. The system loads information of a previously saved game.
2. Flow resumes at Main Success Scenario Step 10.

*Alt2: User selects Quit*

1. End Use case.

*Alt3: The user chooses no computer players*

1. Computer player (AI) does not engage in the game.
2. Flow resumes at Main Success Scenario Step 6.

**Exceptions:**

- If at any time the system is unable to initiate the game, then the system informs the user of the issue and the use case ends.

**Special Requirements:**

- Colors and sizes of the board along with the cones must provide- or be able to provide- for the visually impaired (e.g. Color vision deficiency, color blindness, etc.).

**Open Issues:**

- Is the system able to recall the correct saved file?
- Is the system able to handle exceptions if a wrong file format is passed?