USE CASE: "VISION ASSIST"

Ricochet Robots Project

Group #6:

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Stakeholders and Interests:

- Player: wants the game to work properly either with vision assistance enabled or disabled, be easy to use, entertaining, and possible to win.
- User: wants the game to be set up properly, and all the menus and settings to be functional together with the vision assist functionality.
- Parents: wants a child friendly game with ease of use to entertain.
- Team Members: wants to design vision assistance, implement it, and test the game to ensure it is working properly.

Preconditions: User has enabled colour vision assistance during the set-up phase of the game for using this feature during a gameplay.

Success Guarantee (Postconditions): The robots and targets are easily distinguishable by vision impaired players since they are now of a different colour palette or have some specific shapes to make them distinct.

Main Success Scenario:

- 1. The user selects the colour vision assistance option during the set-up phase of the game. [Alt 1: User does not select assist option]
- 2. The system registers the user's option with respect to colour assist.
- 3. The system changes the robots and targets to a different colour palette or makes use of specific shapes to make each element distinct.
- 4. The system displays the ricochet robots board with the newly configured elements so that they can be easily distinguished by vision impaired players.
- 5. The system then allows the player to start playing and the use case ends.

Alternative Flows:

Alt 1: User does not select assist option

- 1. If the user does not enable the vision assistance option during the setup phase, then the board loads with the default layout.
- 2. Flow resumes at Main Success Scenario Step 5.

Exceptions:

- The system should not allow the vision assistance option to be disabled during an ongoing gameplay.
- If at any time the user exits the system, then the use case ends.

Special Requirements:

 The user must enable the vision assist option during the set-up phase for it to be implemented. • Proper guidelines should be given for users taking advantage of the vision assist option.

Open Issues:

- Is the vision assist functionality working properly?
- Are the new colour palette and/or shapes easy identifiable?