4 Brief Use Cases

Use Case 3: Save and Load Game

Primary Actor: Player

Description: Allows players to save their progress and resume the game later.

Main Flow:

- 1. The player selects "Save Game" from the menu.
- 2. The System records the current board state, player scores, and turn order.
- 3. The player can later select "Load Game" to resume from the saved state.
- 4. The game reloads the saved data and resumes from the last turn.

Alternative Flows:

- If no saved game exists, the "Load Game" option is disabled.
- If an error occurs, the System **notifies the player** and prompts a retry.

Use Case 4: End Game & Declare Winner

Primary Actor: System

Description: Determines when the game ends and announces the winner.

Main Flow:

- 1. The System monitors game conditions (e.g., all stones placed, highest score reached).
- 2. If a winning condition is met, the System calculates **final scores**.

4 Brief Use Cases

3. The System announces the **winner** and offers the option to start a **new game** or **exit**.

Alternative Flows:

- If multiple players are tied, the System applies **tie-breaking rules** (e.g., most high-value placements).
- If a player leaves mid-game and only one remains, that player wins by default.

Use Case 5: Al Turn Processing

Primary Actor: Al Player

Description: Controls how Al makes decisions based on difficulty settings.

Main Flow:

- 1. The Al rolls the dice.
- 2. The Al analyzes valid moves and selects the best available option.
- 3. The Al places a stone on the board.
- 4. The System updates scores and moves to the next turn.

Alternative Flows:

- If no valid move is available, the Al ends its turn without placing a stone.
- If Al difficulty is set to Hard, it prioritizes strategic placements over random ones.

Use Case 6: Enable Color Vision Deficiency Mode

Primary Actor: Player

Description: Allows visually impaired players to adjust the game's visuals for better accessibility.

4 Brief Use Cases 2

Main Flow:

- 1. The player selects "Accessibility Settings" from the menu.
- 2. The player enables **Color Vision Deficiency Mode**.
- 3. The System adjusts colors, patterns, or labels to ensure clear differentiation.
- 4. The changes apply immediately, improving visual clarity.

Alternative Flows:

- If the player disables the mode, the game reverts to default visuals.
- If multiple colorblind modes exist, the player selects their preferred mode.

4 Brief Use Cases