Use cases for The 15 puzzle

UC1 Starts a game

Main scenario

- 1. Starts when a user wants to play the game
- 2. System asks for name and requests the user to click a button to start the game
- 3. User provides a name and clicks the button
- 4. System shuffles the numbers in the game panel and informs the user to start clicking numbers to move them.

Alternate Scenarios

- 3a. User clicks the start button without entering a username
 - o System informs the user he must enter a user name

UC2 Plays a game

Main scenario

- 1. Starts after a user has entered a name and clicked the start button
- 2. Iteration >
 - I. User clicks a number next to the empty slot
 - II. System display total number of moves
 - III. System evaluates if the game is completed
- 3. System displays a text the puzzle is solved

Alternate Scenarios

- 2a. User clicks a button that is not next to the empty spot
 - o System informs the user he must click a number next to the empty spot

UC3 User restarts a game

Main scenario

- Starts after a user has entered a name and clicked the start button and perhaps clicked/moved numbers around
- 2. User clicks the restart button
- 3. System reshuffles the numbers but keep the user name
- 4. Iteration >
 - I. User clicks a number next to the empty slot
 - II. System display total number of moves
 - III. System evaluates if the game is completed
- 5. System displays a text the puzzle is solved

UC4 User resends page during a game

Main scenario

- 1. Starts after a user has entered a name and clicked the start button and perhaps clicked/moved numbers around
- 2. User press the F5 key to resend page
- 3. System resends the page as it was prior to the resend