Manual Test Plan

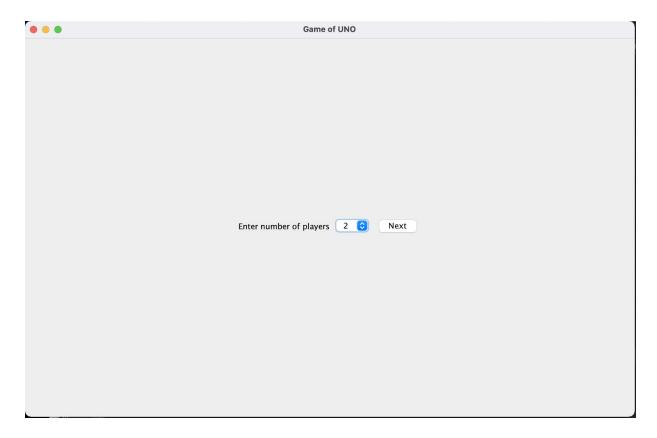
Prerequisites

- 1. Java Compiler
- 2. JDK 15

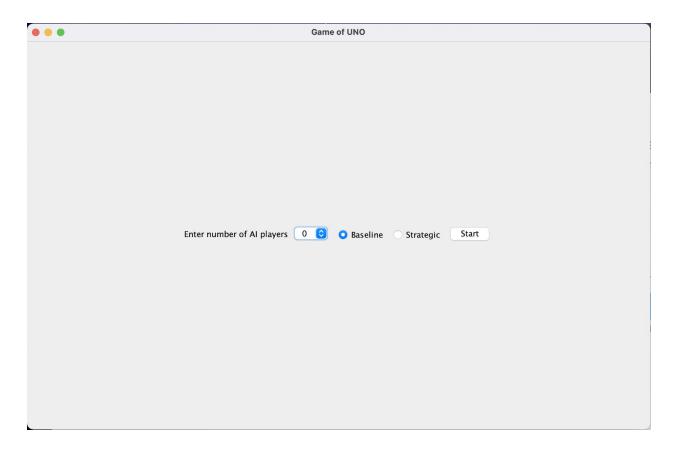
Environment Setup and configurations

- Mac OS environment
- Conduct manual testing by manually validating each functionality by creating and executing test cases. (https://regtest.com/testing-blog/qui-testing-tutorial/)

Operations and the results



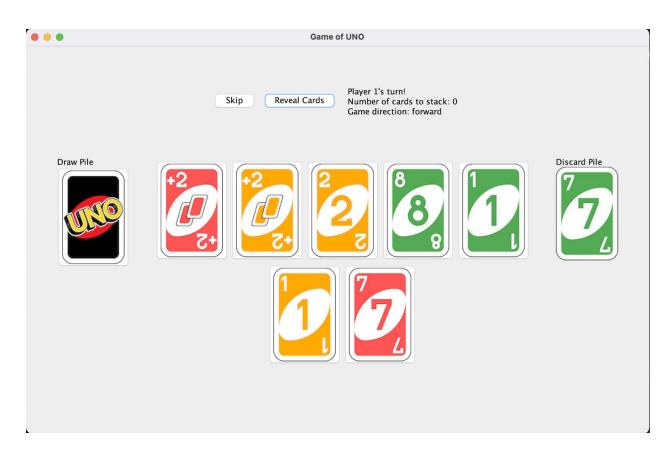
• User can select number of players in the game initially



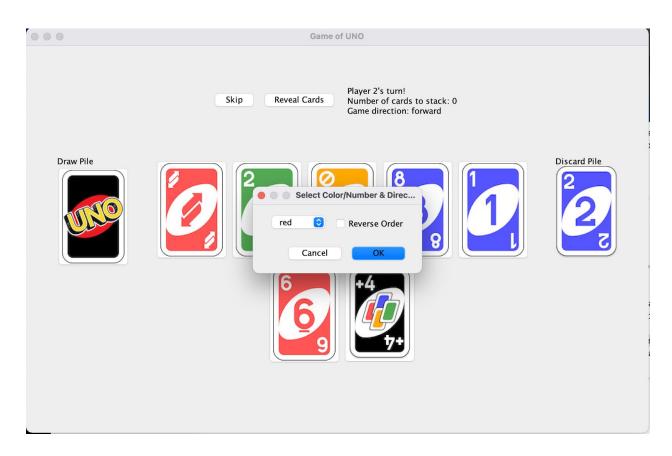
• User can decide number and types of Al players in their game



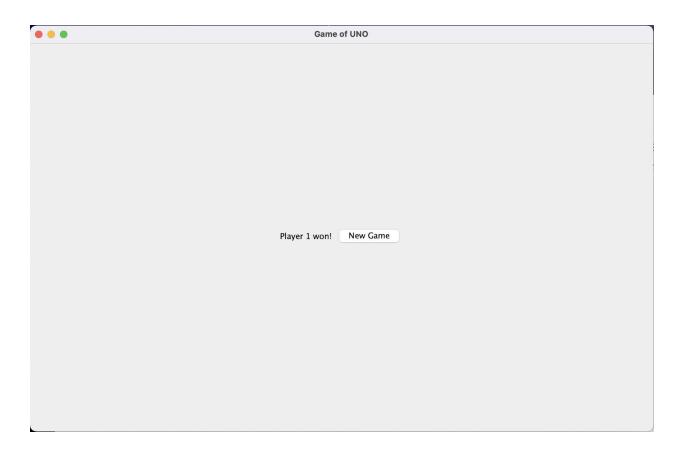
- The state of the game, such as the last card to match, the number of card to stack, and the player of current turn should be displayed
- Skip button to move onto next turn
- Reveal Cards button to reveal/hide cards of the player of the current turn to prevent opponents see current player's cards



• On click reveal -- view current player's hand



Allow player to select color if a wild card or wild draw four card is picked



• Game ending scene to indicate the winner

Test Items

- 1. Create game
 - a. Check if the UI includes a player number input and start button (success)



b. Check if the create game screen restricts the number of players (success)



c. Check if the UI asks the player to can decide number and type of AI players in their game (success)



d. Check if the game screen restricts the number of players based on initial player number selection -- if 3 players are chosen only 0-2 players can be AI (success)



2. Play game

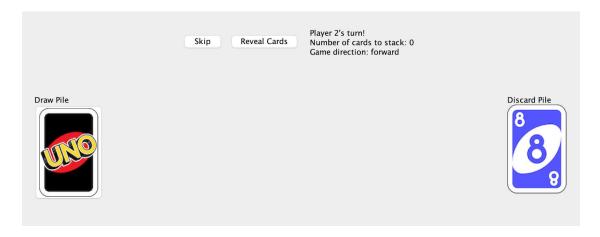
- a. Check if the game displays the correct functions (success)
 - i. Draw and discard pile
 - ii. The state of the game, such as the number of card to stack, and the player of current turn should be displayed
 - iii. Current player's cards are hidden
 - iv. Skip and reveal cards buttons



- b. Check if the reveal cards button reveals the card faces (success)
- c. Check if the each user gets 7 cards initially (success)
- d. Check if the initial card in the discard pile is NOT a special card (success)



- e. If a card is played successfully, make sure... (success)
 - i. Discard pile is updated with the card played
 - ii. Turn is updated in details section in the top panel
 - iii. Next player's cards are hidden



- f. Check if UI allows player to select a color or number, if a wild card or wild draw four card is picked (success)
- g. Check if UI allows player to reverse the order of the game, if a wild card or wild draw four card is picked (success)



h. If a wild card or wild draw 4 card is played, make sure the UI displays what the next player should play -- number or color (success)



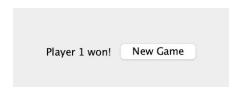
i. Check if upon clicking draw pile, the current player's cards update (success)



- j. Pictures not included but tested:
 - i. Check if the skip turn button, updates the game state (success)
 - ii. Check if illegal moves are NOT allowed (success)
 - iii. Check if illegal moves display error messages (success)
 - iv. Check if draw 4 & draw 2 stacking rules are implemented (success)
 - v. Check if user is NOT allowed to skip turn until card is drawn or played (success)

3. End game

a. Check if the game is redirected to end scene once a player runs out of cards (success)



b. Check if new game is created upon clicking new game button (success)