**Test Plan for HANGMAN (Alpha v9)**

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| **Test #** | **Aspect being tested** | **How tested/Input** | **Input Case Type** | **Expected Outcome** | **Actual Outcome** | **Pass/Fail** | **Notes how fixed if failed** |
| 1 | If game commences when user enters a 1 or 2 or 3 | I will enter a 1 then a 2 and then a 3 in three different executions of the code | Expected | The game will commence by displaying “Get ready for game 1” | The game commenced by displaying “Get ready for game 1” and the game layout commenced | ✔ |  |
| 2 | If game does not commence when user enters a number other than 1 or 2 or 3 | I will enter the numbers in the input that are close to 1,2 or 3 such as 0, 4, and -1 as well as further numbers | Boundary | The game will display “Please enter a number which is between 1 and 3” and wait for user input | The game displayed “Please enter a number which is between 1 and 3” and waited for user input | ✔ |  |
| 3 | If game does not commence when user enters a decimal (floating point) number in the range of 1 and 3 | I will enter a floating point number, e.g. 1.5 | Boundary | The game will display “Please enter a number which is between 1 and 3” and wait for user input | The game displayed “Please enter a number which is between 1 and 3” and waited for user input | ✔ |  |
| 4 | If game does not commence when user enters a decimal (floating point) number not in the range of 1 and 3 | I will enter a floating point number, e.g. 1.5 | Exceptional | The game will display “Please enter a number which is between 1 and 3” and wait for user input | The game displayed “Please enter a number which is between 1 and 3” and waited for user input | ✔ |  |
| 5 | If game does not commence when user enters a number and a letter or other non-number character | I will enter 1, 2 or 3 and another non-number character | Exceptional | The game will display “Please enter a number which is between 1 and 3” and wait for user input | The game displayed “Please enter a number which is between 1 and 3” and waited for user input | ✔ |  |
|  | If game does not commence when no input is entered, only enter key pressed | I will just hit the enter key | Exceptional | The game will display “Please enter a number which is between 1 and 3” and wait for user input | The game will display “Please enter a number which is between 1 and 3” and wait for user input | ✔ |  |
| 6 | If game does not commence when a letter or other character is entered | I will enter letter characters, such as k, and non-number characters, such as $ | Exceptional | The game will display “Please enter a number which is between 1 and 3” and wait for user input | The game displayed “Please enter a number which is between 1 and 3” and waited for user input | ✔ |  |
| 7 | When in game, user inputs a number/ other character when asked to guess a letter | I will enter a number between 0 and 9 | Exceptional | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
|  | When in game, user inputs nothing and hits enter key when asked to guess a letter | I will just hit the enter key | Exceptional | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ | In the letterGuess module I added in “or userGuess==’’ which meant that if enter was only pressed the guess would not count as a correct guess |
| 8 | When in game, user inputs 2 or more numbers/ other characters when asked to guess a letter | I will enter more than one number | Exceptional | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
|  | When in game user inputs a decimal (floating point) number | I will enter a floating point number such as 1.5 | Exceptional | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
| 9 | When in game, user inputs a letter and a number when asked to guess a letter | I will input a letter and a number in one turn | Exceptional | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
| 10 | When in game, user inputs two or more letters when asked to guess for a letter | I will input at least two letters in one turn | Boundary | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
| 11 | When in game user inputs one letter that has already been guessed | I will input a previously guessed letter | Boundary | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
| 12 | When in game, user inputs one letter when asked to guess that has not been previously guessed which is incorrect | I will input a letter which has not been previously guessed that I do not think is in the word | Expected | The game will display the ‘letter incorrect’ message if it is wrong and move on to the next guess. | The game displayed the ‘letter incorrect’ message with wrong input and moved on to the next guess | ✔ |  |
| 13 | When in game, user inputs one letter when asked to guess that has not been previously guessed which is correct | I will input a letter which has not been previously guessed that I think is in the word | Expected | The game will display the ‘letter correct’ message if it is a correct guess and move on to the next guess | The game displayed the ‘letter correct’ message with correct input and moved on to the next guess | ✔ |  |
| 14 | When in game, user inputs a letter and a non-letter character | I will input a letter and a non-letter character | Exceptional | The game will display “Sorry, the character(s) you entered is not correct input or has already been guessed. Please enter a letter” and wait for user input | The game displayed “Sorry, the character(s) you entered is not a correct guess or has already been guessed. Please enter a letter” and waited for user input | ✔ |  |
| 15 | When in game user inputs one letter which is an incorrect guess and letter gets added to letters guessed list | I will input an incorrect letter | Expected | Incorrect guess will have the previous guessed letter added to it | The game added the previously incorrect letter to the incorrect letter list which was displayed on the next turn after the incorrect guess | ✔ |  |
| 16 | When in game user inputs one letter which is an incorrect guess and the incorrect guesses remaining goes down by 1 | I will input an incorrect letter | Expected | The incorrect guesses remaining number will decrease by 1 in the next turn | The game subtracted 1 from the previous number of incorrect guesses remaining which was displayed on the next turn after this incorrect input | ✔ |  |
| 17 | When in game and the user’s input is a correct guess, underscore(s) changes to that letter | I will input a correct letter | Expected | The underscore(s) will change in the next turn to the previously guessed correct letter | The game changed the underscore(s) to the correct letter guessed in the next turn after correct input | ✔ |  |
| 18 | After 8 incorrect guesses inputted, game ends and displays loss message and moves on to next game if any remaining | I will input 8 incorrect guesses and make sure I input 2 or 3 at the start | Expected | Next game will commence if there are any left to play | After inputting 8 incorrect guesses the program acknowledged that I lost and commenced on to the next game since there were more remaining | ✔ |  |
| 19 | After losing game from last input, user gets message displayed and told what word was and program stops as no more games left | I will input 8 incorrect guesses | Expected | Program will stop | Program stopped | ✔ |  |
| 20 | After winning game from last input, user gets message displayed with what word was  and moves on to the next game if any  remaining | I will input all of the letters in the word I am trying to guess | Expected | Next game will commence if there are any left to play or script will stop if not | User got acknowledged they won and next game commenced as there were more games remaining | ✔ |  |
| 21 | After winning game from last input, user gets message displayed with what word was  and program stops as no games are remaining | I will input the correct letters to guess the word | Expected | Program will stop | Program stopped | ✔ |  |
| 22 | When next game commences correct layout occurs | I will input all of the letters in the word I am trying to guess and wait to see next game. In another execution of game I will input 8 incorrect letters and wait to see next game | No input | The game number will appear followed by incorrect guesses remaining, the underscores for the letter, an incorrect letters list with no values and the line “Please enter a letter” | The game number appeared followed by incorrect guesses remaining, the underscores for the letter, an incorrect letters list with no values and the line “Please enter a letter” | ✔ |  |