Black Box Testing – Edit Goals Page

Equivalence Class (EC) for Distance Goal

Valid EC	● 0 to 9999
Invalid EC 1	● >=10,000
Invalid EC 2	● Non-numeric input

Boundary Values for distance goal

Valid EC (0 to 9999)	Two Boundary Values	0 (lower boundary)
		9999 (upper boundary)
	Lower Boundary (0)	0,1 (negative inputs not allowed)
	Upper Boundary(9999)	9998,9999,10000
Invalid EC (10,000 to infinity)	Two Boundary Values	10000 (lower boundary)
		infinity (upper boundary)
	Lower Boundary (10000)	9999,10000,10001
	Upper Boundary(infinity)	A number much larger than 10000

Input Values for test cases

- **Value set for distance goal (in km)**
  - o Valid: 0, 99.9, 9999
  - o Invalid: 10 000 ,".", 999 999
  - o Users do not have the option to enter negative values as it is impossible for distance to be negative
  - o Decimal inputs will be rounded down or up to the nearest integer.

Equivalence Class (EC) for Time Goal

Valid EC	● 0 to 744
Invalid EC 1	● >=745
Invalid EC 2	● Non-numeric input

Input Values for test cases

- **Value set for time goal (in hours)**
  - Valid: 0, 99.9, 744
  - Invalid: 745, "." , 999 999
  - Users do not have the option to enter negative values as it is impossible for time to be negative
  - Decimal inputs will be rounded down or up to the nearest integer.

Boundary Values for time goal

Valid EC (0 to 744)	Two Boundary Values	0 (lower boundary)
		744 (upper boundary)
	Lower Boundary (0)	0,1 (negative inputs not allowed)
	Upper Boundary(744)	743,744,745
Invalid EC (745 to infinity)	Two Boundary Values	745 (lower boundary)
		infinity (upper boundary)
	Lower Boundary (745)	744,745,746
	Upper Boundary(infinity)	A number much larger than 745

Test Case 1: Distance Goal

* - Toast Error Message ("Error: Please use values between 0-9999 for distance, and between 0-744 for time.)

^ - live updated value to be seen directly on the screen

Input	Expected Result	Actual Result
0	^0	^0
9999	^9999	^9999
99.9	^100	^100
10 000	*	*
999 999	*	*
.	*	*

Test Case 2: Time Goal

* - Toast Error Message ("Error: Please use values between 0-9999 for distance, and between 0-744 for time.)

^ - live updated value to be seen directly on the screen

Input	Expected Result	Actual Result
0	^0	^0
744	^744	^744
99.9	^100	^100
745	*	*
999 999	*	*
.	*	*