

1. Black Box Testing – Edit Goals Page

Equivalence Class (EC) for Distance Goal

Valid EC	<ul style="list-style-type: none">• 0 to 9999
Invalid EC 1	<ul style="list-style-type: none">• >=10,000
Invalid EC 2	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> 0 to 744
Invalid EC 1	<ul style="list-style-type: none"> ≥ 745
Invalid EC 2	<ul style="list-style-type: none"> 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	*	*
.	*	*

2. Black Box Testing – Email Login Activity

Equivalent Class (EC) for Password Length

Valid EC	<ul style="list-style-type: none">• ≥ 6
Invalid EC	<ul style="list-style-type: none">• 0 to 5

Boundary Values for password length

Valid EC (≥ 6)	One Boundary Values	6 (lower boundary)
	Lower Boundary (6)	5,6,7
Invalid EC (0 to 5)	Two Boundary Values	0 (lower boundary)
		5 (upper boundary)
	Lower Boundary (0)	-1,0,1
	Upper Boundary(5)	4,5,6

Input Values for test cases

- **Value set for password length**
 - o Valid: 6,20
 - o Invalid: 0,5
 - o -1 is removed as it's impossible for length to be -1

Equivalent Class (EC) for Email Address

Valid EC	<ul style="list-style-type: none">• A valid email address that has been registered in the system: e.g: valid@gmail.com
Invalid EC	<ul style="list-style-type: none">• Email address without the '@' symbol. e.g example.com• Invalid character in recipient name e.g example.some@mail.com• Missing Domain Name e.g: example@.com• Email is not registered in system e.g: notregistered@mail.com

Input Values for test cases

- **Email Address**
 - o Valid:
 - valid@gmail.com
 - o Invalid: 0,5
 - example.com
 - example.some@mail.com
 - example@.com
 - notregistered@mail.com

**For our subsequent test cases, we assume the password is always correct.*

Test Case 1: Valid Email Address + Invalid Password Length

*** - Toast Message**

Email	Password Length	Expected Result	Actual Result
valid@gmail.com	0	*Minimum password length is 6 characters	*Minimum password length is 6 characters
valid@mail.com	5	*Minimum password length is 6 characters	*Minimum password length is 6 characters

Test Case 2: Invalid Email Address + Valid Password Length

*** - Toast Message**

Email Address	Password Length	Expected Result	Actual Result
example.com	6	* Please provide valid email"	* Please provide valid email"
example.com	20	* Please provide valid email"	* Please provide valid email"
example.some@mail.com	6	* Please provide valid email"	* Please provide valid email"
example.some@mail.com	20	* Please provide valid email"	* Please provide valid email"
example@.com	6	* Please provide valid email"	* Please provide valid email"

example@.com	20	* Please provide valid email"	* Please provide valid email"
notregistered@mail.com	6	* Please provide valid email"	* Please provide valid email"
notregistered@mail.com	20	* Please provide valid email"	* Please provide valid email"