

Black Box Testing - Register Page

Equivalence Class (EC) for Password Length

Valid EC	<ul style="list-style-type: none">• 8 to 100
Invalid EC	<ul style="list-style-type: none">• 0 to 7• More than 100

Boundary Values

Valid EC (8 to 100)	Two Boundary Values	8 (Lower Boundary)
		100(Upper Boundary)
	Lower Boundary (8)	7,8,9
	Upper Boundary (100)	99,100,101
Invalid EC (0 to 7)	Two Boundary Values	0 (Lower Boundary)
		7 (Upper Boundary)
	Lower Boundary (0)	-1,0,1
	Upper Boundary (7)	6,7,8
Invalid EC (more than 100)	Two Boundary Values	101 (Lower Boundary)
		Infinity (Upper Boundary)
	Lower Boundary (101)	100,101,102
	Upper Boundary (Infinity)	~

Final Input Values for Test Cases

- Length of Password
 - o Valid: 8
 - o Invalid: 0, 7, 101, 110
 - o -1 is removed as it's impossible for length to be -1

Equivalent Class (EC) for Email

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

Final Input Values for Test Cases

- **Email**
 - Valid:
 - jason@gmail.com
 - Invalid:
 - jason.com
 - jason.SCSE@gmail.com
 - jason@.com
 - notregistered@gmail.com

Equivalent Class (EC) for Username

Valid EC	<ul style="list-style-type: none">· A valid username that is unique from usernames already in database
Invalid EC	<ul style="list-style-type: none">· Non-unique username already in database

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

Test Cases 1: Valid Username + Valid Email + Invalid Password Length

- - Toast Message

Username	Email	Password Length	Expected Result	Actual Output
uniqueuser1	valid@mail.com	0	<ul style="list-style-type: none">• Please enter a password length of 8 to 100	<ul style="list-style-type: none">• Please enter a password length of 8 to 100
uniqueuser2	valid@mail.com	7	<ul style="list-style-type: none">• Please enter a password length of 8 to 100	<ul style="list-style-type: none">• Please enter a password length of 8 to 100
uniqueuser3	valid@mail.com	101	<ul style="list-style-type: none">• Please enter a password	<ul style="list-style-type: none">• Please enter a password

			length of 8 to 100	length of 8 to 100
uniqueuser4	valid@mail.com	110	<ul style="list-style-type: none"> • Please enter a password length of 8 to 100 	<ul style="list-style-type: none"> • Please enter a password length of 8 to 100
uniqueuser5	valid@mail.com	105	<ul style="list-style-type: none"> • Please enter a password length of 8 to 100 	<ul style="list-style-type: none"> • Please enter a password length of 8 to 100

Test Cases 2: Valid Username + Invalid Email + Valid Password Length

Username	Email	Password Length	Expected Result	Actual Output
uniqueuser6	jason.com	8	<ul style="list-style-type: none">• Authentication failed, check your email and password or sign up	<ul style="list-style-type: none">• Authentication failed, check your email and password or sign up
uniqueuser7	jason.com	16	<ul style="list-style-type: none">• Authentication failed, check your email and password or sign up	<ul style="list-style-type: none">• Authentication failed, check your email and password or sign up
uniqueuser8	jason.SCSE@mail.com	8	<ul style="list-style-type: none">• Authentication failed, check your email and password or sign up	<ul style="list-style-type: none">• Authentication failed, check your email and

				password or sign up
uniqueuser9	jason.SCSE@mail.com	16	<ul style="list-style-type: none"> Authentication failed, check your email and password or sign up 	<ul style="list-style-type: none"> Authentication failed, check your email and password or sign up
uniqueuser10	jason@.com	8	<ul style="list-style-type: none"> Authentication failed, check your email and password or sign up 	<ul style="list-style-type: none"> Authentication failed, check your email and password or sign up
uniqueuser11	jason@.com	16	<ul style="list-style-type: none"> Authentication failed, check your email and password or sign up 	<ul style="list-style-type: none"> Authentication failed, check your email and password

				d or sign up
uniqueuser12	notregistered@mail.com	8	<ul style="list-style-type: none"> • Authentication failed, check your email and password or sign up 	<ul style="list-style-type: none"> • Authentication failed, check your email and password or sign up
uniqueuser13	notregistered@mail.com	16	<ul style="list-style-type: none"> • Authentication failed, check your email and password or sign up 	<ul style="list-style-type: none"> • Authentication failed, check your email and password or sign up

Test Cases 3: Valid Username + Valid Email + Valid Password Length

Username	Email	Password Length	Expected Output	Actual Output
uniqueuser14	valid@mail.com	8	Registration Successful	Registration Successful
uniqueuser	valid@mail.com	16	Registration Successful	Registration Successful

Test Cases 4: Invalid Username + Valid Email + Valid Password Length

Username	Email	Password Length	Expected Output	Actual Output
uniqueuser	valid@mail.com	16	Username already exists	Username already exists

Black Box Testing - Login Page

Valid EC	<ul style="list-style-type: none">Registered User + Correct Password
Invalid EC	<ul style="list-style-type: none">Unverified UserUnregistered UserWrong Password

Test Cases 1: Valid Username + Invalid Password

Username	Password	Expected Output	Actual Output
registereduser	wrongpassword	Please relogin	Please relogin

Test Cases 2: Invalid Username + Valid Password

Username	Password	Expected Output	Actual Output
unregistereduser	password	Please relogin	Please relogin
unverifieduser	password	Please relogin	Please relogin

Test Cases 3: Valid Username + Valid Password

Username	Password	Expected Output	Actual Output
registereduser	correctpassword	Login successful	Login successful

Black Box Testing - Favourites

<u>Scenario</u>	<u>Expected Result</u>	<u>Actual Output</u>
Click Favourite in Carpark	Carpark added to Favourites	Carpark added to Favourites
Click Favourite in Carpark that is already in Favourite	Carpark removed from Favourites	Carpark removed from Favourites

Black Box Testing - Search

Get user's current location

a. Display user's geo location (Valid Inputs)

Test Input Latitude Longitude Expected Output Actual Output 1.377728

103.738431 Choa Chu Kang Avenue 5 Choa Chu Kang Avenue 5 1.353466

103.867716 Serangoon Avenue 2 Serangoon Avenue 2 1.3483 103.6831 50

Nanyang Ave 50 Nanyang Ave 1.434145 103.786604 Woodlands Ave 5 Woodlands

Ave 5 b. Display user's geo location (Invalid Inputs) Test Input Expected Result

Actual Result Location service not allowed Permission denied Permission denied

Mobile GPS not activated Position unavailable Position unavailable Unknown

user coordinates Unknown error Unknown error

<u>GPS</u>	<u>Test Location</u>	<u>Option</u>	<u>Expected Result</u>	<u>Actual Output</u>
<u>On</u>	<u>Choa Chu Kang</u>	<u>startNavigate()</u>	<u>Choa Chu Kang</u>	<u>Choa Chu Kang</u>
<u>On</u>	<u>Yishun</u>	<u>startNavigate()</u>	<u>Yishun</u>	<u>Yishun</u>

<u>GPS</u>	<u>Manual Location Input</u>	<u>Option</u>	<u>Expected Result</u>	<u>Actual Output</u>
<u>Off</u>	<u>Choa Chu Kang</u>	<u>startNavigate()</u>	<u>Choa Chu Kang</u>	<u>Choa Chu Kang</u>
<u>Off</u>	<u>Yishun</u>	<u>startNavigate()</u>	<u>Yishun</u>	<u>Yishun</u>

<u>Scenario</u>	<u>Expected Result</u>	<u>Actual Output</u>
Search for Carpark in list	Carpark displayed in search	Carpark displayed in search
Search for Carpark not in list	No carpark found	No carpark found