Black Box Testing – Login Page

Equivalent Class (EC) for Password Length

Valid EC	• 8 to 16
Invalid EC	• 0 to 7
	• 17 to 20

Boundary Values

Valid EC (8 to 16)	Two Boundary Values	8 (Lower Boundary)	
		16 (Upper Boundary)	
	Lower Boundary (8)	7 , 8, 9	
	Upper Boundary (16)	15 , 16, 17	
Invalid EC (0 to 7)	Two Boundary Values	8 (Lower Boundary)	
		16 (Upper Boundary)	
	Lower Boundary (0)	-1, 0, 1	
	Upper Boundary (7)	6, 7, 8	
Invalid EC (17 to 20)	Two Boundary Values	17 (Lower Boundary)	
		20 (Upper Boundary)	
	Lower Boundary (17)	16 , 17, 18	
	Upper Boundary (20)	19 , 20, 21	

Final Input Values for Test Cases

• Length of Password

o Valid: 8, 16

o Invalid: 0, 7, 17, 20, 21

o -1 is removed as it's impossible for length to be -1

Equivalent Class (EC) for Email

Valid EC	 A valid email address that has been registered in the system: e.g: siekmingjun@hotmail.com
Invalid EC	 Email address without '@' 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

Final Input Values for Test Cases

• Email

- Valid:
 - siekmingjun@hotmail.com
- o Invalid:
 - example.com
 - example.some@mail.com
 - example@.com
 - notregistered@mail.com

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

<u>Test Cases 1: Valid Email + Invalid Password Length</u>

* - Toast Message

Email	Password Length	Expected Result	Actual Output
valid@mail.com	0	* Please enter a password length of 8 to 16	* Please enter a password length of 8 to 16
valid@mail.com	7	* Please enter a password length of 8 to 16	* Please enter a password length of 8 to 16
valid@mail.com	17	* Please enter a password length of 8 to 16	* Please enter a password length of 8 to 16
valid@mail.com	20	* Please enter a password length of 8 to 16	* Please enter a password length of 8 to 16
valid@mail.com	21	* Please enter a password length of 8 to 16	* Please enter a password length of 8 to 16

Test Cases 2: Invalid Email + Valid Password Length

Email	Password Length	Expected Result	Actual Output
example.com	8	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
example.com	16	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
example.some@mail.com	8	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
example.some@mail.com	16	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
example@.com	8	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
example@.com	16	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
notregistered@mail.com	8	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up

notregistered@mail.com	16	* Authentication failed, check your email and password or sign up	* Authentication failed, check your email and password or sign up
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Registration	on - Password RetypePa	sword Match		
Test Input	Expected Behavious	r Actual Behaviour	Successful	Description
Passwords do not match	Error Message pops up	Error Message pops up		Password is invalid as both
Password : ABCDEFGH	"Passwords do not match"	"Passwords do not match"	×	passwords type do not match
Password : ABCDEFGG	and Additional action			and the familiar states
Passwords do match	Account has been created sucessfully	lacon and a second	2	Password is valid as both
Password : ABCDEFGH		sucessfully	~	passwords type matched
Password : ABCDEFGH				
	Login - Validity of Creder	tials		
Test Input	Expected Behavious	r Actual Behaviour	Successful	Description
Incorrect password	Error Message pops up "Authentication	Error Message pops up "Authentication	•	Incorrect password was keyed in and user

Failed, check your

App successfully

logs the user in

email and

password"

Correct password

Failed, check

password"

your email and

App successfully

logs the user in

is not allowed to

Correct password was keyed in and

user is allowed to

log in

log in

Change Password - Length (Can use BVT) Test Input Expected Behaviour Actual Behaviour Successful Description Error Message Error Message Password length 7 Characters pops up "Please is invalid because pops up "Please 0123456 enter a password enter a password it is out of the between 8 - 16 between 8 - 16 range of 8 - 16 Characters" Characters" Account has been Password length 8 Characters Account has created sucessfully been created is valid because it 01234567 sucessfully is in the range of 8 - 16 Account has been 16 Characters Account has Password length is valid because it created sucessfully been created

Error Message

pops up "Please

enter a password

between 8 - 16

Characters"

16 Characters
01234567890ABCDEF

17 characters

0123456789ABCDFF0

been created sucessfully Error Message pops up "Please

enter a password

between 8 - 16

Characters"

✓

is in the range of 8 - 16
Password length is invalid because it is out of the range of 8 - 16

Password : ABCDEFGH pops up pops up pops up invalid as both passwords do not "Passwords do not match" pops up pops up

match" not match"

Password : ABCDEFGG

Password : ABCDEFGG

Passwords do match

Account has been Account has Password

Passwords do match

Account has been Account has created sucessfully been created

Password : ABCDEFGH

Account has been Account has created sucessfully been created sucessfully

passwords type

Password : ABCDEFGH sucessfully passwords matched

	Login - Validity of Creder	ntials		
Test Input	Expected Behaviou	r Actual Behaviour	Successful	Description
Incorrect password	Error Message	Error Message		Incorrect
	pops up	pops up		password was
	"Authentication	"Authentication	40	keyed in and user
	Failed, check your	Failed, check	×	is not allowed to
	email and	your email and		log in

email and password" password"

Correct password

App successfully logs the user in logs the user in log in

V

Correct password

Iog in

Correct password

Logs the user in logs the user in logs the user in log in

Change Password - Length (Can use BVT)

0123456
enter a password
between 8 - 16
Characters"
enter a password
between 8 - 16
Characters"

Account has been
Account has
enter a password
between 8 - 16
Characters"

it is out of the
range of 8 - 16
Password length

Account has been

Error Message

pops up "Please

enter a password

between 8 - 16

Characters"

01234567

16 Characters

17 characters

01234567890ABCDEF

0123456789ABCDEF0

created sucessfully been created

created sucessfully been created

sucessfully

Account has

sucessfully

Error Message

pops up "Please

enter a password

between 8 - 16

Characters"

is valid because it

is in the range of

Password length is valid because it

is in the range of

Password length

is invalid because

it is out of the

range of 8 - 16

8-16

8 - 16

pops up pops up "Passwords do not "Passwords do Password: ABCDFFGH passwords type match" not match" do not match

Password: ABCDEFGG Passwords do match Account has been Account has Password is valid

created sucessfully been created as both

Password: ABCDFFGH sucessfully passwords type matched

Password: ABCDFFGH