Black Box Testing

D.1 Register Page

Username

	Valid	Invalid
Equivalence Class	Username must be between 4-20 characters AND Must be alphanumeric	Blank OR Not between 4-20 characters OR Contain non-alphanumeric characters

Valid Equivalence Class Example

Within Boundary Variables	Peter
Within Boundary Variables	Jack123
Within Boundary Variables	2006420
Outside Boundary Variables	(left empty)
Outside Boundary Variables	Pat
Outside Boundary Variables	Suparmanbinultarmenbinbatman
Outside Boundary Variables	!Peter

Email Address

	Valid	Invalid
Equivalence Class	Email with "@", AND "." after "@" included AND Email must not be in database	Blank OR "@" is excluded OR "." is excluded after "@" OR No characters before "@", between "@" and ".", and after "." OR Email in already in database

Valid Equivalence Class Example

Within Boundary Variables	Peter@hotmail.com (No existing email in database)
Within Boundary Variables	Jack@yahoo.com (No existing email in database)
Within Boundary Variables	jill@gmail.com (No existing email in database)
Outside Boundary Variables	(left empty)
Outside Boundary Variables	123456asdasdads
Outside Boundary Variables	Jack@hotmailcom
Outside Boundary Variables	Jack@hotmail.com (Email already in database)
Outside Boundary Variables	Jackhotmail.com
Outside Boundary Variables	@gg.com

Password

	Valid	**Invalid**
Equivalence Class	Password between 8-20 characters AND Must include at least 1 capital letter and 1 number	Blank OR Not between 8-20 characters OR Does not have at least 1 capital letter or 1 number

Valid Equivalence Class Example

Within Boundary Variables	Peter123
Within Boundary Variables	Peter123@@
Outside Boundary Variables	(left empty)
Outside Boundary Variables	peter
Outside Boundary Variables	123
Outside Boundary Variables	batmanbinsuparmanbinultraman
Outside Boundary Variables	peter123
Outside Boundary Variables	12345678890--12318725387123981237

Test Case (Register Page)

Generic Cases

Case ID	Input	Expected Result	Actual Result
1	Fill up registration page with valid inputs	Alert "Account successfully registered" AND user redirected to Home Screen	Alert "Account successfully registered" AND user redirected to Home Screen
2	Fill up registration page with invalid input(s)	The system alerts the user about the invalid input(s)	The system alerts the user about the invalid input(s)
3	Fill up registration page without filling up all input fields	The system alerts the user to fill up empty input fields	The system alerts the user to fill up empty input fields

Testing

Username	Email Address	Password	Expected Result	Actual Result
Peter	peter@gmail.com (Email not found in database)	!Peter123?	Alert "Account successfully registered" AND user redirected to Home Screen	Alert "Account successfully registered" AND user redirected to Home Screen
'empty field'	peter@gmail.com	Peter123	Alert "Username/Email/Password cannot be Empty!!!"	Alert "Username/Email/Password cannot be Empty!!!"
Peter	'empty field'	Peter123	Alert "Username/Email/Password cannot be Empty!!!"	Alert "Username/Email/Password cannot be Empty!!!"

Peter	peter@gmail.com	'empty field'	Alert "Username/Email/Password cannot be Empty!!!"	Alert "Username/Email/Password cannot be Empty!!!"
Peter	peter.com (Email found in database)	peter134	Alert "Invalid Email!!!"	Alert "Invalid Email!!!"
Peter	peter123@gmail.com (Email found in database)	!Peter123?	Alert "Email Taken!!!"	Alert "Email Taken!!!"
Peter	peter@gmail.com	peterrrrrr	Alert "At least 1 capital [A-Z] and 1 number [0-9]!!!"	Alert "At least 1 capital [A-Z] and 1 number [0-9]!!!"
Peter	peter@gmail.com	pet@!	Alert "Password must be between 8-20 characters long!!!"	Alert "Password must be between 8-20 characters long!!!"
Peter	peter@gmail.com,	per12346 76182u7 397123	Alert "Password must be between 8-20 characters long!!!"	Alert "Password must be between 8-20 characters long!!!"
Pet	peter@gmail.com,	per!@#1 32	Alert "Username must be between 4-20 characters long!!!"	Alert "Username must be between 4-20 characters long!!!"
Petpetpet petpepet petpeptp epetpet	peter@gmail.com,	per!@#1 32	Alert "Username must be between 4-20 characters long!!!"	Alert "Username must be between 4-20 characters long!!!"
Petp!!!et pet	peter@gmail.com	per!@#1 32	Alert "Your username cannot contain invalid characters!!!"	Alert "Your username cannot contain invalid characters!!!"

D.2 Login Page

Email Address

	Valid	Invalid
Equivalence Class	Email must be in the database	Blank OR Email is not in the database

Valid Equivalence Class Example

Within Boundary Variables	Peter@hotmail.com (found in database)
Within Boundary Variables	Jack@yahoo.com (found in database)
Within Boundary Variables	jill@gmail.com (found in database)
Outside Boundary Variables	(left empty)
Outside Boundary Variables	123456asdasdads
Outside Boundary Variables	kidz@hotmail.com (not found in database)

Password

	Valid	Invalid
Equivalence Class	Email-Password combination is in the database	Blank OR Email-Password combination is incorrect

Valid Equivalence Class Example

Within Boundary Variables	Peter123 (email found in database, password matches)
Outside Boundary Variables	(left empty)
Outside Boundary Variables	peter (email found in database, password invalid)
Outside Boundary Variables	Kidz123 (email not found in database)

Test Case (Login Page)

Generic Cases

Case ID	Input	Expected Result	Actual Result
1	Fill up login page with valid Email-Password	Login Successful, user is redirected to main page	Login Successful, user is redirected to main page
2	Fill up login page with invalid input(s)	The system prompts the user to change the invalid input(s)	The system prompts the user to change the invalid input(s)
3	Fill up login page without filling up all input fields	The system prompts the user to fill up empty input fields	The system prompts the user to fill up empty input fields

Testing

Email	Password	Expected Result	Actual Result

peter@gmail.com	Peter123	Login Successful, user is redirected to main page	Login Successful, user is redirected to main page
'empty field'	Peter123	Alert "Email/Password cannot be Empty!!!"	Alert "Email/Password cannot be Empty!!!"
peter@gmail.com	'empty field'	Alert "Email/Password cannot be Empty!!!"	Alert "Email/Password cannot be Empty!!!"
peter.com (not found in database)	peter134	Alert "Invalid Email!!!"	Alert "Invalid Email!!!"
kidz@hotmail.com (not found in database)	peter123	Alert "Invalid Email!!!"	Alert "Invalid Email!!!"
peter@gmail.com (found in database)	Peter!234 (does not match Email-Password combination)	Alert "Invalid Password!!!"	Alert "Invalid Password!!!"