

Black box testing

1. Register

Test id	Input description	Expected output	Actual output
1	Attempt registration with valid email, password, and display name	System alerts user to check email for verification, and sends verification email.	System alerts user to check email for verification, and sends verification email.
2 (a-g)	Attempt registration with invalid email, password or display name	System displays error alert, with guiding messages for invalid fields	System displays error alert, with guiding messages for invalid fields

Test id	Inputs			Expected output	Actual output
	Email	Password	Display name		
1	"test@gmail.com"	"aP2)0n%W"	"John"	Verification email sent	Verification email sent
2a	"invalid"	"aP2)0n%W"	"John"	Invalid email	Invalid email
2b	"test@gmail.com"	"aP2)0n%"	"John"	Invalid password (must have at least 8 characters)	Invalid password
2c	"test@gmail.com"	"p@5sword"	"John"	Invalid password (must contain an uppercase)	Invalid password
2d	"test@gmail.com"	"P@5SWORD"	"John"	Invalid password (must contain a lowercase)	Invalid password
2e	"test@gmail.com"	"P@ssword"	"John"	Invalid password (must contain a number)	Invalid password
2f	"test@gmail.com"	"P4ssword"	"John"	Invalid password (must contain a special character)	Invalid password
2g	"test@gmail.com"	"aP2)0n%W"	" "	Invalid display name	Invalid display name

2. Login

Test id	Input description	Expected output	Actual output
1	Attempt login with valid email and password	Login successful, redirect user to home page	Login successful, redirect user to home page
2 (a-b)	Attempt login with invalid email or password	System displays error alert, User is not logged in	System displays error alert, User is not logged in

Test id	Inputs		Expected output	Actual output
	Email	Password		
1	"test@gmail.com"	"aP2)0n%W"	Login successful	Login successful
2a	"wrong@gmail.com"	"aP2)0n%W"	Wrong email/password	Wrong email/password
2b	"test@gmail.com"	"wrongpass"	Wrong email/password	Wrong email/password

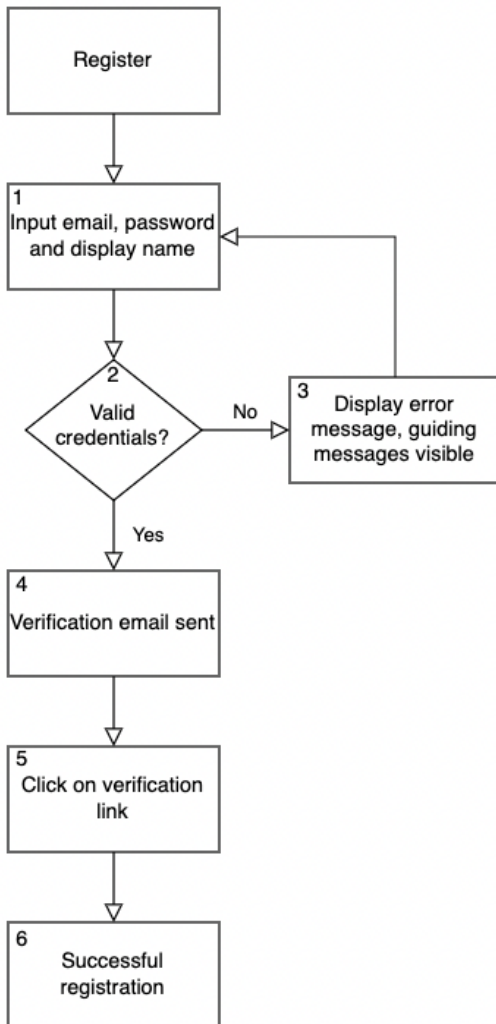
3. Profile / Forget Password

Test id	Input description	Expected output	Actual output
1a	Change password to valid password by clicking "forgot password?" button	Password has been changed, redirect user to home page	Password has been changed, redirect user to home page
1 (b-f)	Change password to invalid password by clicking "forgot password?" button	System displays error alert	System displays error alert
2a	Change password to valid password in profile	Password has been changed, redirect user to home page	Password has been changed, redirect user to home page
2 (b-f)	Change password to invalid password in profile	System displays error alert	System displays error alert
3a	Change display name to valid display name in profile	Display name has been changed, redirect user to home page	Display name has been changed, redirect user to home page
3b	Change display name to invalid display name in profile	System displays error alert	System displays error alert

Test id	Inputs		Expected output	Actual output
	New Password	Display name		
1a	"aP2)0n%W"	-	Password successfully changed	Password successfully changed
1b	"aP2)0n%"	-	Invalid password (8 characters)	Invalid password
1c	"p@5sword"	-	Invalid password (no uppercase)	Invalid password
1d	"P@5SWORD"	-	Invalid password (no lowercase)	Invalid password
1e	"P@ssword"	-	Invalid password (no number)	Invalid password
1f	"P4ssword"	-	Invalid password (no special character)	Invalid password
2a	"aP2)0n%W"	-	Password successfully changed	Password successfully changed
2b	"aP2)0n%"	-	Invalid password (8 characters)	Invalid password
2c	"p@5sword"	-	Invalid password (no uppercase)	Invalid password
2d	"P@5SWORD"	-	Invalid password (no lowercase)	Invalid password
2e	"P@ssword"	-	Invalid password (no number)	Invalid password
2f	"P4ssword"	-	Invalid password (no special character)	Invalid password
3a	-	"Bob"	Display name successfully changed	Display name successfully changed
3b	-	"	Invalid display name	Invalid display name

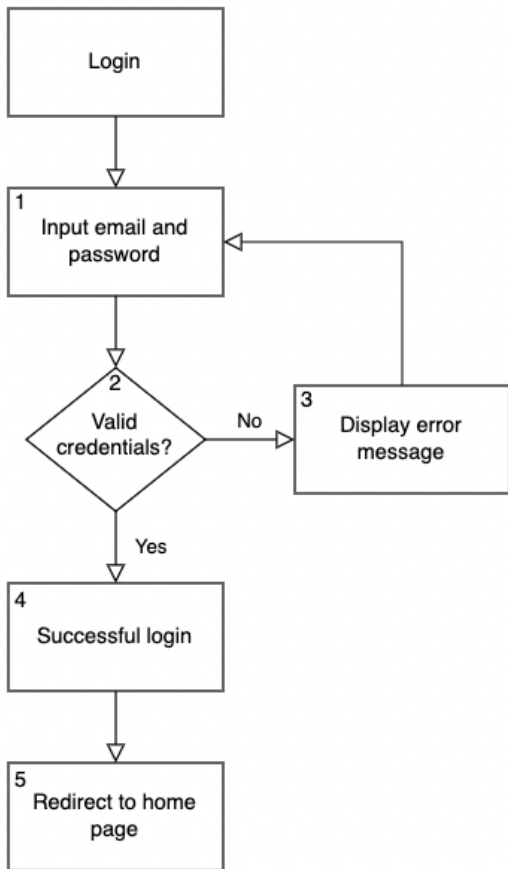
White Box Testing

1. Register



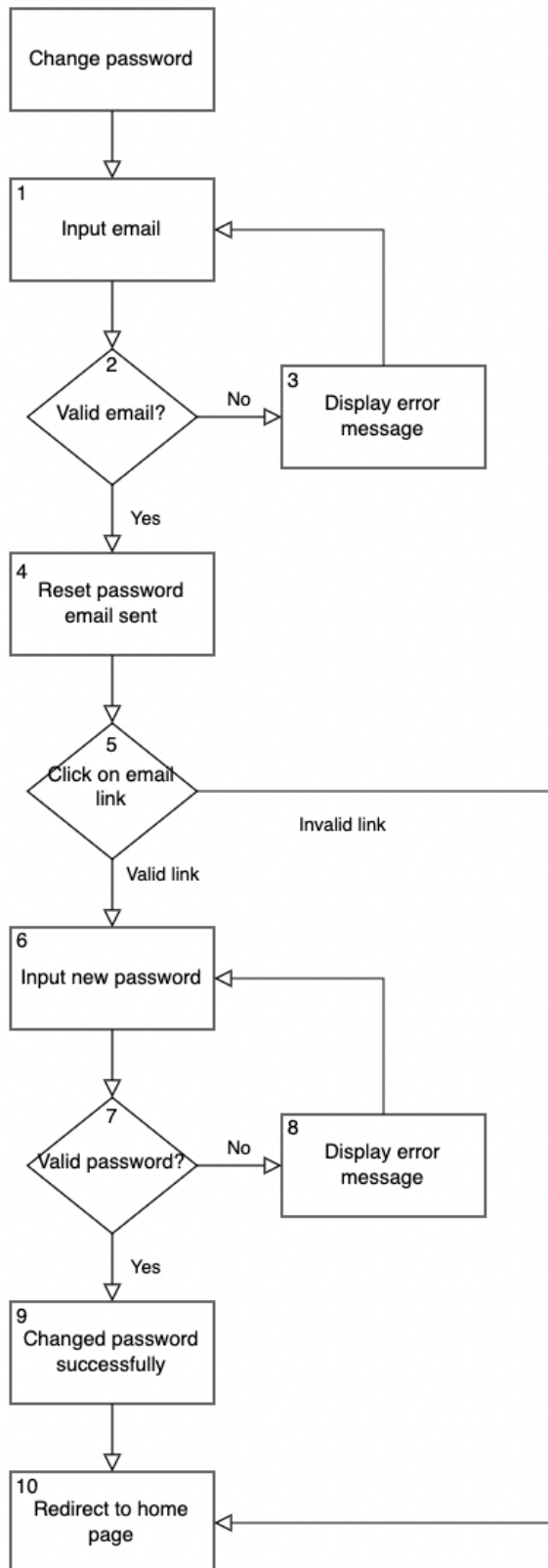
Test id	Basis path	Inputs	Expected output	Actual output
1	1, 2, 3, 1, 2, 4, 5, 6	1: "invalid", "aP2)0n%W", "John" 1: " test@gmail.com ", "aP2)0n%W", "John"	System displays error message and guiding messages with invalid email, then registration successful on second try	System displays error message and guiding messages with invalid email, then registration successful on second try

2. Login



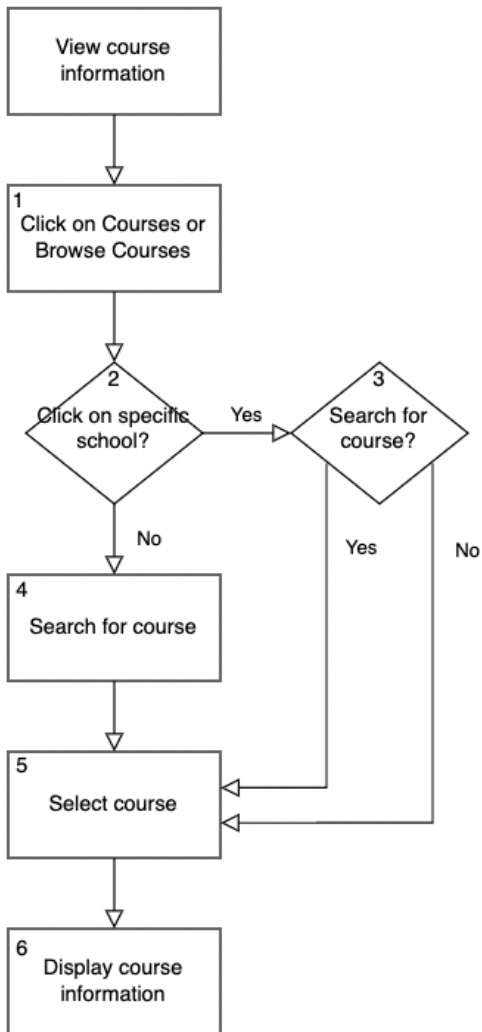
Test id	Basis path	Inputs	Expected output	Actual output
1	1, 2, 3, 1, 2, 4, 5	1: " test@gmail.com ", "wrongpass" 1: " test@gmail.com ", "aP2)0n%W"	System displays error message with wrong password, then successful login on second try. User is redirected to home page	System displays error message with wrong password, then successful login on second try. User is redirected to home page

3. Change Password



Test id	Basis path	Inputs	Expected output	Actual output
1	1, 2, 3, 1, 2, 4, 5, 10	1: unregistered@gmail.com 1: test@gmail.com 5: click on link after expired	System displays error message with unregistered email, then sends email on second try. Clicking expired link redirects user to home page. User is not logged in	System displays error message with unregistered email, then sends email on second try. Clicking expired link redirects user to home page. User is not logged in
2	1, 2, 4, 5, 6, 7, 8, 6, 7, 9, 10	1: test@gmail.com 5: click on valid link 6: "invalid" 6: "aP2)0n%W"	System sends email, link directs user to reset password form. System displays error message on invalid password, then password is changed successfully on second try. User is redirected to home page	System sends email, link directs user to reset password form. System displays error message on invalid password, then password is changed successfully on second try. User is redirected to home page

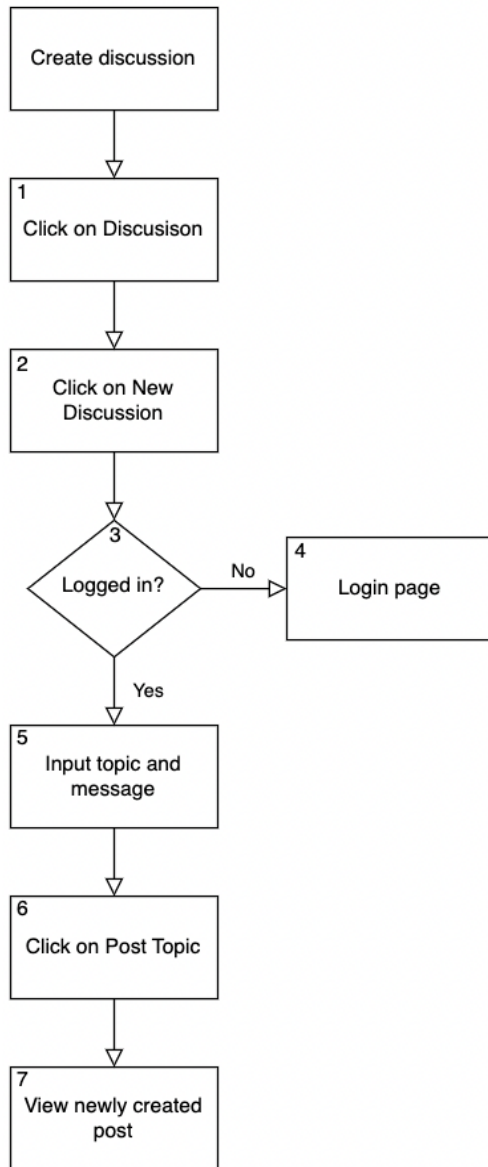
4. View Course Information



Test id	Basis path	Inputs	Expected output	Actual output
1	1, 2, 4, 5, 6	4: "computer science" 5: Click on Computer Science (NTU)	User has navigated to correct page, which displays relevant information to the course	User has navigated to correct page, which displays relevant information to the course
2	1, 2, 3 (yes), 5, 6	2: Click on NTU 3: "computer engineering"	System directed user to browse NTU courses. User has	System directed user to browse NTU courses. User has

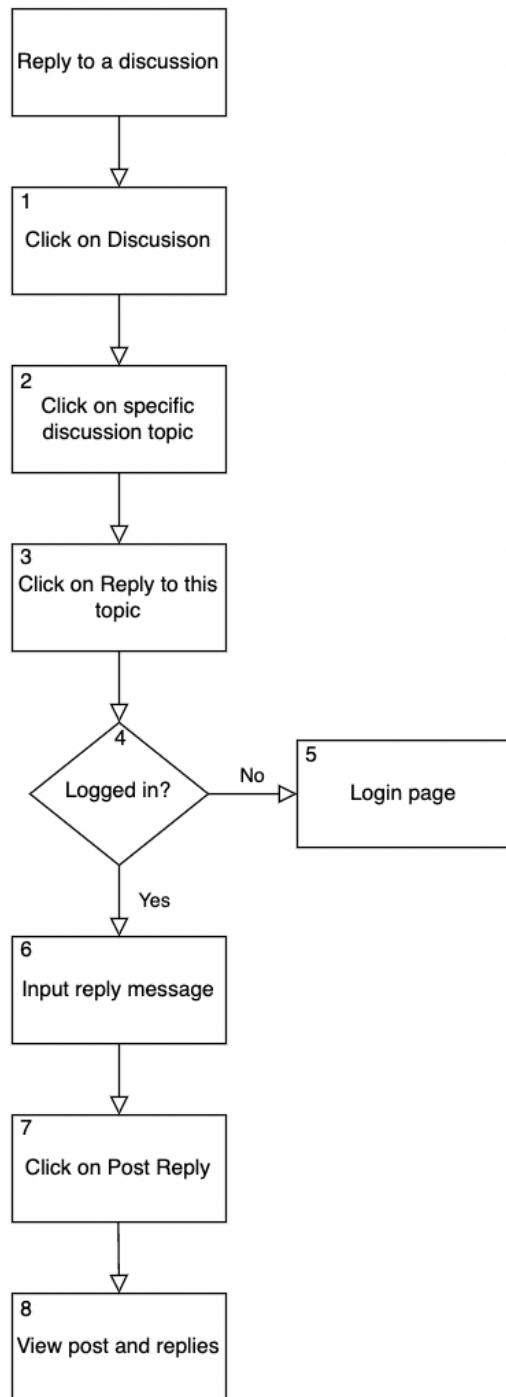
		5: Click on Computer Engineering (NTU)	navigated to correct page, which displays relevant information to the course	navigated to correct page, which displays relevant information to the course
3	1, 2, 3 (no), 5, 6	2: Click on NUS 5: Click on Bachelor of Computing (Computer Science)	System directed user to browse NUS courses. User has navigated to correct page, which displays relevant information to the course	System directed user to browse NUS courses. User has navigated to correct page, which displays relevant information to the course

5. Create a New Discussion



Test id	Basis path	Inputs	Expected output	Actual output
1	1, 2, 3, 5, 6, 7	0: User is logged in 5: "NTU vs NUS", "testing"	Discussion with topic "NTU vs NUS" and message "testing" has been created. There are no replies.	Discussion with topic "NTU vs NUS" and message "testing" has been created. There are no replies.
2	1, 2, 3, 4	0: User is not logged in	User is redirected to the login page	User is redirected to the login page

6. Reply to a Discussion



Test id	Basis path	Inputs	Expected output	Actual output
1	1, 2, 3, 4, 6, 7, 8	2: Click on "NTU vs NUS" discussion 4: "replying"	User is able to view discussion topic and message, as well as other replies. Once posted, reply is visible on the discussion page	User is able to view discussion topic and message, as well as other replies. Once posted, reply is visible on the discussion page
2	1, 2, 3, 4, 5	0: User is not logged in	User is redirected to the login page	User is redirected to the login page