

Test Plan

Test Plan

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Test No	Function	Test case	Test data	Expected result	Actual result	Comments
1.0	Register button at Register page	test case for username input	username: mcr password: mypassword confirm password: passwd	ERROR: username must be at least 6 characters long.	ERROR: username must be at least 6 characters long.	
1.1	Register button at Register page	test case for username input	username: mcrazick1 password: mypassword confirm password: passwd	ERROR: username must include ASCII text onl (A-Z).	ERROR: username must include ASCII text onl (A-Z).	
1.2	Register button at Register page	test case for confirm password input	username: mcrazick password: mypassword confirm password: passwd	ERROR: password mismatch.	ERROR: password mismatch.	
1.3	Register button at Register page	test case for password input	username: mcrazick password: pass confirm password: passwd	ERROR: password mismatch.	ERROR: password mismatch.	
1.4	Register button at Register page	test case for password and confirm password inputs	username: mcrazick password: pass confirm password: pass	ERROR: password must be at least 6 characters long.	ERROR: password must be at least 6 characters long.	
1.5	Register button at Register page	test case for password and confirm password input	username: mcrazick password: MyPassword confirm password: MyPassword	user gets registered and logged-in, and sent to BMI page	user got logged-in and registered and also sent to BMI page	
2.0	Login button at Login page	test case for username input	username: razick password: mypassword	Error: user 'mcrazick" does not exist.	Error: user 'mcrazick" does not exist.	

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2.1	Login button at Login page	test case for password input	username: mcrazick password: mypassword	ERROR: invalid password.	ERROR: invalid password	The error popup misses the fullstop.
2.2	Login button at Login page	test case for username and password inputs	username: mcrazick password: MyPassword	User gets logged in and sent to BMI page	User got logged in successfully and redirected to the BMI page	
3.0	Calculate button at BMI page	test case for height input	measurement: metric weight (Kg): 75 height (meters): 0	ERROR: weight and height inputs must be greater than 0.	ERROR: weight and height inputs must be greater than 0.	
3.1	Calculate button at BMI page	test case for weight input	measurement: metric weight (Kg): 0 height (meters): 1.74	ERROR: weight and height inputs must be greater than 0.	ERROR: weight and height inputs must be greater than 0.	
3.2	BMI page	test case for measurement, which is set to metric. Lets provide input data and hit imperial radio	weight: 75 height: 1.74	data for weight and height inputs is replaced with imperial measure data	True, data has been converted as follow: weight (Lb): 165.34500 height (inches): 68.50394	
3.3	Calculate button at BMI page	test case for measurement, weight and height inputs	measurement: imperial weight: 75 height: 1.74	BMI page hides all elements and displays BMI: 24.77 with Continue button.	BMI page hid all elements and displayed BMI: 24.77 with Continue button.	
3.4	Continue button at BMI page	test case for Continue button		User is redirected to Home page, with their username in lowercase	User has been redirected to the Home page, and their username is shown in lowercase	

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4.0	Reports button at Home page	test case for displaying reports of all registered users (from these tests we've registered one user successfully: mcrazick)		Average weight of all users: 75 Kg Highest weight of all users: 75 Kg Lowest weight of all users: 75 Kg	Average weight of all users: 75 Kg Highest weight of all users: 75 Kg Lowest weight of all users: 75 Kg	Despite providing height and weight at BMI page in imperial measure, we get user reports in expected unit
4.1	To imperial, button at Reports page	test case for displaying metric results in imperial measure by pressing button "TO IMPERIAL"		Average weight of all users: 165.34 Lb Highest weight of all users: 165.34 Lb Lowest weight of all users: 165.34 Lb	Average weight of all users: 165.34 Lb Highest weight of all users: 165.34 Lb Lowest weight of all users: 165.34 Lb	
4.2	To metric, button at Reports page	test case for displaying results of imperial measure TO metric measure by pressing the button "TO METRIC"		Average weight of all users: 75 Kg Highest weight of all users: 75 Kg Lowest weight of all users: 75 Kg	Average weight of all users: 75 Kg Highest weight of all users: 75 Kg Lowest weight of all users: 75 Kg	
4.3	Return button at Reports page	test case for redirecting user back to their Home page from Reports page by hitting the Return button on the left side of the screen		User gets redirected to their Home page	User has been successfully redirected to their Home page	

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5.0	Calories button at Home page	test case for redirecting user to the Calories Counter page from Home page		User gets redirected to the Calories Counter page	User is successfully redirected to the Calories Counter page	
5.1	Calculate button at Calories Counter page	test case for calculating the total calories by pressing the calculate button	food: Apple Count: 10	10 x Apples (97.75 calories each) = 977.5 calories	10 x Apples (97.75 calories each) = 977.5 calories	
5.2	Calculate button at Calories Counter page	test case for selecting food type	food: Count: 10	ERROR: " is not a valid food option!	ERROR: " is not a valid food option!	
5.3	Calculate button at Calories Counter page	test case for calculating the total calories by pressing the calculate button	food: Banana Count: 10	10 x Bananas (100 calories each) = 1000 calories	10 x Bananas (100 calories each) = 1000 calories	
5.4	Calculate button at Calories Counter page	test case for calculating the total calories by pressing the calculate button	food: Egg Count: 10	10 x Eggs (76.5 calories each) = 765 calories	10 x Eggs (76.5 calories each) = 765 calories	

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5.5	Calculate button at Calories Counter page	test case for calculating the total calories by pressing the calculate button	food: BurgerKing's Hamburger Count: 10	10 x BurgerKing's Hamburgers (253 calories each) = 2530 calories	10 x BurgerKing's Hamburgers (253 calories each) = 2530 calories	
5.6	Calculate button at Calories Counter page	test case for calculating the total calories by pressing the calculate button	food: BurgerKing's Whopper Count: 10	10 x BurgerKing's Whoppers (698.5 calories each) = 6985 calories	10 x BurgerKing's Whoppers (698.5 calories each) = 6985 calories	
5.7	Calculate button at Calories Counter page	test case for total calories result printout's plurality	food: Apple Count: 1	Expecting lack of "s" Apples when many, Apple when 1 count.	Success 1 x Apple (97.75 calories each) = 97.75 calories	
5.8.0	Calculate button at Calories Counter page	test case for count input's max range: 10^{12}	food: Apple Count: 1000000000001	ERROR: Exceeded count limit of 1000000000000 units!	ERROR: Exceeded count limit of 1000000000000 units!	
5.8.1	Calculate button at Calories Counter page	test case for count input's min range: 1	tried entering 0, -1 and -6 in form but it converts the manually inputted value TO 1			

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5.9	Return button at Calories Counter page	test case for redirecting user back to their Home page from Calories Counter page by hitting the Return button on the left side of the screen		User gets redirected to their Home page	User has been successfully redirected to their Home page	
6.0	Diary button at Home page	test case for redirecting user to the Diary page from Home page		User gets redirected to the Diary page	User is successfully redirected to the Diary page with empty records in the comboBox	
6.1.0	Diary page Read button	test case for trying to read empty record	selection:	ERROR: record does not exist. Please select a valid record from the list.	ERROR: record does not exist. Please select a valid record from the list.	
6.1.1	Diary page Edit button	test case for trying to edit empty record	selection:	ERROR: record does not exist. Please select a valid record from the list.	ERROR: record does not exist. Please select a valid record from the list.	
6.1.2	Diary page Drop button	test case for trying to drop empty record	selection:	ERROR: record does not exist. Please select a valid record from the list.	ERROR: record does not exist. Please select a valid record from the list.	
6.1.3	Diary page Read button	test case for trying to read non existing record	selection: test	ERROR: record does not exist. Please select a valid record from the list.	ERROR: record does not exist. Please select a valid record from the list.	

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6.2	Diary page New record	test case for trying to access the form for adding new records by hitting New Record button	selection:	Diary page provides form with inputs: content and title, with options: "Add" button and "MY RECORDS"	Diary page provides form with inputs: content and title, with options: "Add" button and "MY RECORDS"	
6.3.0	Diary page Add button (validation)	test case for content input	content: title: My New Record	ERROR: Title and Content must not be empty.	ERROR: Title and Content must not be empty.	
6.3.1	Diary page Add button (validation)	test case for title input	content: random content title:	ERROR: Title and Content must not be empty.	ERROR: Title and Content must not be empty.	
6.3.2	Diary page Add button (validation)	test case for title and content inputs	content: random content title: My New Record	A new record is registered and user is introduced back to the main options with their new added record. Also, the inputs from the add new record form are cleared.	A new record has been registered and user has been sent back to the main options. Their record is added to the comboBox.	We don't know if the previous form has been cleared yet
6.3.3	Diary page New record button	test case for confirming the reset of inputs when creating new record	selection:	Content and Title inputs shall be empty	Content and Title inputs are empty as expected	We can now return by hitting "MY RECORDS" button
6.4	Diary page New record button	test case for checking if new record is added in chronological order	selection: content: Content 2 title: My 2 Record	New record shall be registered and listed before the record with title: My New Record	Record has been registered and set before the record with title: My New Record	(Hit New Record and then Add new valid record)

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6.5.0	Diary page Read button	test case for checking if the content with title: My New Record is readable by hitting Read button	selection: 04/06/2024 16:31:00 My New Record	All key elements shall be hidden and the record's Content and Title are displayed with button "MY RECORDS"	Title: My New Record and Content: random content have been displayed with button "MY RECORDS"	
6.5.1	Diary page My records button	test case for displaying main options at Diary page by hitting My Records button located at the top right corner	selection: 04/06/2024 16:31:00 My New Record	User shall be introduced with main options: Read, Edit, Drop and My Record, at Diary page	User is introduced with main options: Read, Edit, Drop and My Record, at Diary page	
6.5.2	Diary page Read button	test case for checking if the content with title: My New Record is readable by hitting Read button	selection: 04/06/2024 16:36:37 My 2 Record	All key elements shall be hidden and the record's Content and Title are displayed with button "MY RECORDS"	Title: My 2 Record and Content: Content 2 have been displayed with button "MY RECORDS"	Lets head back to the main options of Diary page by hitting MY RECORDS button
6.6.0	Diary page Drop button	test case for removing a record of choice by hitting the Drop button	selection: 04/06/2024 16:31:00 My New Record	A selected record shall be unregistered for logged-in user and disappear from the comboBox	A record with title: My New Record and date of addition: 04/06/2024 16:31:00 has been successfully removed	selection still includes the name of the old option however, we don't know if the record has been successfully unregistered

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						<p>from the logged-in user's storage</p> <p>so lets not change our selection to test that in next text 6.6.1</p>
6.6.1	Diary page Drop button	test case for reading an unregistered record	selection: 04/06/2024 16:31:00 My New Record	ERROR: record does not exist. Please select a valid record from the list	ERROR: record does not exist. Please select a valid record from the list	<p>This proves that the record is unaccessable, however, this is because the code compares if the selection exists within the comboBox, instead of directly checking if record exists within the logged-in user's diary records storage.</p> <p>We can test this in next test by returning to the Home page and then head back to the Diary page.</p>

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6.7	Diary page Return button	test case for returning back to Home page by hitting the Return button at the left side of the window (at Diary page)	selection: 04/06/2024 16:31:00 My New Record	User gets redireted to the Home page	User is successfully redirected to the Home page	
6.8.0	Diary page	test case for checking if Record with title: My New Record has been successfully unregistered from logged-in user's Diary records storage by hitting the Diary button at Home page		selection shall be empty and there should be only one record in the comboBox, a record with title: My 2 Record	Success, there is only one record, and is listed as option: 04/06/2024 16:36:37 My 2 Record	Lets read this record in next test 6.8.1 to validate its content
6.8.1	Diary page Read button	test case for validating records content with title: My 2 Record for logged-in user: mcrazick	selection: 04/06/2024 16:36:37 My 2 Record	Expecting title: My 2 Record Content: Content 2	True, the read record has title: My 2 Record Content: Content 2	Head back to main options by hitting the MY RECORDS button
6.9.0	Diary page Save button	test case for editing content and title of selected diary record. (select record,	selection: 04/06/2024 16:36:37 My 2 Record title: My Edited Record content: Content Edited	SUCCESS: record has been updated.	SUCCESS: record has been updated.	Hit my records button to head back to main options, and well read the record in next test 6.9.1

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		edit content and title, and hit save button)				
6.9.1	Diary page Read button	test case for reading recently updated record	selection: 04/06/2024 16:36:37 My Edit Record	Expecting title: My Edited Record Content: Content Edited	True, the record has been updated successfully title: My Edited Record Content: Content Edited	a selection was not cleared when we left the: save record form from test 6.9.0 Return to main options at Diary page after reading the record
6.9.2	Diary page New record	test case to check if content and title input has been cleared after updating the record and heading to main panel of Diary page	selection: 04/06/2024 16:36:37 My Edit Record	Expecting empty inputs: Title and Content	Unexpected result: title and content has not been cleared title: My Edited Record Content: Content Edited	I did not intended this but I don't recall implementing this in design hence it might not be an issue. Also, it might be a useful feature in case user exits to check their options in the comboBox and wishes to continue adding new record with similar content and title.

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						Head to the Home page to continue next
7.0	Logout the user from Home page	test case to check if user can be logged-out by pressing LOGOUT button at Home page		User shall be logged-out and redirected back to the Login page	User has been redirected to the Login page	<p>We don't know if user has been successfully logged out. We can check this in next tests by registering new user and checking if the Diary page is empty</p> <p>Head to Register page by hitting the REGISTER NOW button</p>
7.1	Register button at Register page	test case to check if we can register multiple users	<p>username: Gubrus</p> <p>password: MyP@ss2024</p> <p>confirm password: MyP@ss2024</p>	User shall be registered and send to the BMI page	User has been successfully redirected to the BMI page	<p>Note: at GlobalVariables, there is a variable that limits the ammount of user's for registry. We can currently register 100 users. Otherwise we should get an</p>

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						error but this has to be tested manually (to which I did but did not document it)
7.2.0	Login the second, registered user	test case to check if we can login diferent users	measurement: metric weight (Kg): 90 height: (meters): 1.82	BMI: 27.17	BMI: 27.17	
7.2.1	Login the second, registered user	test case to check if we can login diferent users by hitting Continue button		Expecting username at Home page: Gubrus	SUCCESS username at Home page: Gubrus	
7.3	Diary button at Home page	test case to check if newly registered user's data: diary records are outputed for account: Gubrus instead of account: mcrazick (Hit Diary button at Home page)		Expecting empty diary records in comboBox	SUCCESS there are no diary records in the comboBox for user: Gubrus	Head back to the Home page
7.4	Reports button at Home page	test case to check if reports of all users' weight data has been updated		Expecting: Average weight of all users: 82.5 Kg	SUCCESS: Average weight of all users: 82.5 Kg	Head back to the Home page and logout for the next test

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				Highest weight of all users: 90 Kg Lowest weight of all users: 75 Kg	Highest weight of all users: 90 Kg Lowest weight of all users: 75 Kg	
8.0	Login button at Login page	test case to check if we can login to user of choice by providing their valid credentials: username and password	username: mcrazick password: MyPassword	Client gets redirected to the BMI page to have a chance updating their BMI	SUCCESS user gets redirected to the BMI page	Now that I think about it, it would be nice to populate the weight and height inputs with user's saved height and weight data since we have it available. It can ruin the user experience if users have to constantly provide their weight and height just to login. Alternatively we could include a skip button in future.

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8.1	Calculate and then Continue button at BMI page	test case to check if we can login to user of choice by providing their valid credentials (continuation)	measurement: metric weight: 60 height: 1.74	Expecting BMI: 19.82 Expecting username at Home page: mcrazick	SUCCESS, BMI: 19.82 SUCCESS, username at Home page: mcrazick	
8.2	Diary button at Home page	test case to check if logged-in user's: mcrazick diary records get displayed in the comboBox		Expecting diary records: 04/06/2024 16:36:37 My Edited Record selection:	SUCCESS diary records: 04/06/2024 16:36:37 My Edited Record selection is empty as expected	This finally concludes that the login feature works as intended because we get relevant user data from GlobalVariables.vb
9.0	Add new record	robust test of adding new record	content: " " title: " "	ERROR: Title and Content must not be empty.	Unexpected result. User got redirected back to main options, and an empty record has been added to the comboBox with date of addition: "04/06/2024 18:03:13 " "	That is not and intended feature. It's best to strip off the inputs from all space characters when testing for inputs' emptiness. Now Logout and head to the Register page for the last robust test

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9.1.0	Register button at Register page	robust test of registering user with empty credentials	(6 spaces for each input) username: " " password: " " confirm password: " "	ERROR: username must include ASCII text only (A-Z).	ERROR: username must include ASCII text only (A-Z).	
9.1.1	Register button at Register page	robust test of registering user with empty credentials	(6 spaces for each password input) username: "mastermind" password: " " confirm password: " "	User gets redirected to the BMI page	User gets redirected to the BMI page	<p>Although that was expected, it is not ideal as it is vulnerable for the user.</p> <p>Users should be notified if their password is strong.</p> <p>Such feature was not implemented in the design, and it should be because password's length of 6 characters is not enough to guarantee accounts' safety.</p>