

REQUIREMENT TRACEABILITY MATRIX AND TEST CASES



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TEST CASE

A test case is a set of rules or conditions to check if the system or one of its features works in accordance to the requirement. It is a document with a set of details which includes, set of test data, expected results, actual results, environment information and soon.

Below are the test cases for the SMARTKART web application.

Test case ID	Test Objective	Steps:	Test data	Expected result	Actual Result	Status(pass/Fail)
TC_01	Check admin login with valid data	1. Open website		Admin login to the system successfully	"	
		2. Enter the username and password	"A valid username and Password"			
		3. Click "Login" button				
TC_02	Check admin login with invalid data	1. Open website			"	"
		2. Enter the username and password	"An invalid Password" "An invalid username"			
TC_03	Check Admin can add the items	1. Open website 2. Enter the username and password 3. Click "Login" button 4. Enter details of item	"A valid username and password" Item name Item category Quantity	Details inserted successfully	"	"
TC_04	Check Admin can update the item	1. Open website 2. Enter the username and password 3. Click Login button 4. Update the details of the item 5. Click Update button	"a valid username and password" A valid item name A valid quantity A valid item price A valid item category	Details updated successfully	"	"
TC_05	Check Admin can delete the item	1. Open website 2. Enter the username and password 3. Click Login button 4. Delete the details of the item 5. Click Delete button	a valid username and password Item name quantity A valid item price A valid category	Details deleted successfully	"	"
TC_06	Check admin can view the details of the item	1. Open website 2. Enter the username and password. 3. Click Login button 4. Click View button	a valid username and password	Details viewed successfully	"	"
TC_07	Check admin can set the loyalty points	1. Open website 2. Enter the username and password 3. Click Login button 4. Set the rate per point and expiry details 5. Click ok button	a valid username and password Rate per point	loyalty points set successfully	"	"

TC_08	Admin can change the status from ordered to shipped	1.Open website 2.Enter the username and password 3. Click Login button 4. Click the order details 5. change the status	a valid username and password Order Status	Status changed succesfully	*	*
TC_09	Report Status	1.Open Website 2.Click report status		Admin can view the ordered and shipped details		
TC_10	Check Admin can logout from the system	1 Open website 2. Click "Logout" button		Admin logout from the system successfully		
TC_11	New user signup	1.Open website 2.Enter the details 3.Click "signup"	name email mobile number Username and password			
TC_12	Check User can login into system	1 Open website 2. Enter the username and password 3. Click "Login" button	valid username and valid password	User login to the system successfully	*	*
TC_13	Check user login with invalid data	1 Open website 2. Enter the username and password 3. Click "Login" button	"An invalid username" "An invalid Password"	User cannot login to the system successfully	*	*
TC_14	User can purchase item	1.Open website 2.Enter username and password 3.Click Login button. 4.select item category,item name,item quantity 5.Click "BUY"	Valid username and password Valid item category item name item quantity item price	Admin get the acknowledgement that user ordered item	*	*
TC_15	Redeem the loyalty point	User can choose option to redeem loyalty	Yes/no	If yes-the loyalty points is reduced from the amount,user should pay the corresponding price If no-the user should pay the original price	*	*
TC_16	User can give the feedback	Open the website Login click feedback enter the date and comment	A valid username and password Date and comment	Successfully given the feedback		

TC_17	User can cancel the order	Open the website Login Click cancel the order	A valid username and valid password	Successfully cancel the order		
TC_18	Check user can logout from the system	1. Open website 2. Click "Logout" button		user logout from the system successfully		

REQUIREMENT TRACEABILITY MATRIX

Traceability matrix:-

Traceability matrix is a document that correlates any to baseline documents that require a many to many relationships to check the completeness of the relationship .It is used to track the requirements and check the current projects requirements are met.

Requirement Traceability matrix:-

Requirement Traceability Matrix or RTM captures all requirements proposed by the client or software development team and their traceability in a single document delivered at the conclusion of the life-cycle.In other words, it is a document that maps and traces user requirements with test cases. The main purpose of Requirement Traceability Matrix is to see that all test cases are covered so that no functionality should miss while doing Software testing.

Below is the Requirement Traceability Matrix for the SMARTKART web application.

REQUIREMENT TRACEABILITY MATRIX					
Project Name:SmartKart					
Business Requirement Document		Functional Requirement Document			Test Case Document
Business Requirement ID#	Business Requirement/Business Use case	Functional Requirement ID#	Functional Requirement/Functional Use case	Priority	Test case ID
BR_1	Sign up	FR_1	User sign up	High	TC#011
BR_2	Login to system	FR_2	Admin login	High	TC#001, TC#002,

		FR_3	User login	High	TC#012, TC#013
BR_3	Manage items	FR_4	Add	High	TC#003
		FR_5	Edit	High	TC#004
		FR_6	Delete	High	TC#005
		FR_7	View	High	TC#006
BR_4	Order the item	FR_8	Order	High	TC#014
		FR_9	Cancel the order	High	TC#017
BR_5	loyalty point	FR_10	Set the points based on conversion rate.	High	TC#007
		FR_11	Redeem the loyalty point	High	TC#015
BR_6	order details	FR_12	View	High	TC#008
		FR_13	Update status	High	
BR_7	Report	FR_14	View	High	TC#009
BR_8	Feedback	FR_15	Add comment	High	TC#016
		FR_16	View		
BR_9	Logout	FR_17	Admin logout	High	TC#010
		FR_18	User logout	High	TC#017