Assignment 01

ICT3142 – Software Testing Methods and Tools

by

Group 02

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Submission Date: 1ˢᵗ April 2023

Bachelor of Information and Communication Technology

Department of Information and Communication Technology

Faculty of Technology

University of Ruhuna.

Team members

Student name	Registration Number	Test case ID
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Test case ID	TC_01		Test Case description		Test the login functionality in Tool Management System
Created by	Ama	Date Created	March 30, 2024		
Tester's Name	Ama	Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites		S#	Test Data
1	Access to chrome browser		1	Username = isuru@gmail.com
2	The user must be registered user in the system.		2	Password = isu0ru@123

Test Scenario	Verify on entering valid username and password, the user can login to the system and redirected to their dashboard.

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Username & Password	Credential can be	As Expected	Pass
3	Click Login button	Successfully login and Redirect user dashboard	As Expected	Pass

Test case ID	TC_02		Test Case description		Test the login functionality in Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Invalid Username = isurugmail.com
2	The user must be registered user in the system.	2	Password = isuru@123

Test Scenario	Verify on entering invalid username and valid password, the user cannot login to the system

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter invalid Username & valid Password	Credential can be entered	As Expected	Pass
3	Click Login button	Display " required valid email with @ "		Pass

Test case ID	TC_03		Test Case description		Test the login functionality in Tool Management System
Created by	Ama	Date Created	March 30, 2024		
Tester's Name	Ama	Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Username = isuru@gmail.com
2	The user must be registered user in the system.	2	Password = is@12

Test Scenario	Verify on entering valid username and invalid password, the user cannot login to the system

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter valid Username & invalid Password	Credential can be entered	As Expected	Pass
3	Click Login button	Display error message "Password must be more than 8 characteristics and should be valid"	As Expected	Pass

Test case ID	TC_04		Test Case description		Test the insert of Tools into the inventory in the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Tool_ID = T001
2	Login to the Tools Management System	2	Tool name = Angle Grinder Machine
3	Access to the Stock Supervisor Dashboard	3	description
4	Access to Manage Stock interface	4	Quantity = 10

Test Scenario	Verify on entering valid tool details, Stock Supervisor can add new Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Tool_ID , Tool name, Description and Quantity	Credential can be	As Expected	Pass
3	Click Add button	Stock Supervisor can add new tool Details	As Expected	Pass

Test case ID	TC_05		Test Case description		Test the insert Tools into the inventory in the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	ToolID = 1
2	Login to the Tools Management System	2	Tool name = Angle Grinder Machine
3	Access to the Stock Supervisor Dashboard	3	description
4	Access to Manage Stock interface	4	Quantity = 10

Test Scenario	Verify on entering invalid toolID details, Stock Supervisor cannot add new Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Insert invalid ToolID , Tool name, Description, and Quantity	Display an Alert of error "Enter String type ToolID "	As Expected	Pass
3	Click Add button	Display an error message "New Tool details are not added successfully"	As Expected	Pass

Test case ID	TC_06		Test Case description		Test the insert Tools into the inventory in the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	ToolID = T001
2	Login to the Tools Management System	2	Tool name = Angle Grinder Machine
3	Access to the Stock Supervisor Dashboard	3	description
4	Access to Manage Stock interface	4	Quantity = 10.7

Test Scenario	Verify on entering invalid Quantity with tool details, Stock Supervisor can not add new Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Insert ToolID Tool name, Description, and invalid Quantity	Display an Alert of error "Enter valid Quantity type"	As Expected	Pass
3	Click Add button	Display an error message "New Tool details are not added successfully"	As Expected	Pass

Test case ID	TC_07		Test Case description		Test the Update Tools details in the inventory in the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case

| Test case | | | | | Pass |

S#	Prerequisites		S#	Test Data	
1	Access to chrome browser				
2	Login to the Tools Management System		1	Tool name = Angle Grinder Machine "7"	
3	Access to the Stock Supervisor Dashboard		2	description	
4	Access the Manage Stock Interface		3	Quantity = 10	
5	When click update button open the tool details form				

Test Scenario	Update valid tool details, Stock Supervisor can update existing Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Update Tool name, Description and Quantity	Credential can be	As Expected	Pass
3	Click Update button	Stock Supervisor can Update existing Tool Details.	As Expected	Pass

Test case ID	TC_08		Test Case description		Test the Update Tools details in the inventory in the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	ToolID = T003
2	Login to the Tools Management System	2	Tool name = Angle Grinder Machine "7"
3	Access to the Stock Supervisor Dashboard	3	description
4	Access the Manage Stock Interface	4	Quantity = 10
5	When click update button open the tool details form		

Test Scenario	Update ToolID , Stock Supervisor cannot update existing Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Update Tool name, Description and Quantity, with ToolID	Display an Alert of error "Can't update ToolID"	As Expected	Pass
3	Click Update button	Display an error message "Tool details are not updated successfully"	As Expected	Pass

Test case ID	TC_09		Test Case description		Test the Update Tools details in the inventory in the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case
					Pass

S#	Prerequisites		S#	Test Data	
1	Access to chrome browser				
2	Login to the Tools Management System		1	Tool name = Angle Grinder Machine "7"	
3	Access to the Stock Supervisor Dashboard		2	description	
4	Access the Manage Stock Interface		3	Quantity = 10.7	
5	When click update button open the tool details form				

Test Scenario	Update invalid Quantity value, Stock Supervisor cannot update existing Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Update Tool name, Description, and invalid Quantity type	Display an Alert of error "cannot enter the float value for quantity"	As Expected	Pass
3	Click Update button	Display an error message "Tool details are not updated successfully"	As Expected	Pass

Test case ID	TC_10		Test Case description		Test the read/view Tools details in the inventory of the Tool Management System
Created by	Ama		Date Created	March 30, 2024	

Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites		S#	Test Data	
1	Access to chrome browser				
2	Login to the Tools Management System		1	ToolID = T001	
3	Access to the Stock Supervisor Dashboard				
4	Access the Manage Stock Interface				
5	Click on the View option				

Test Scenario	View existing tool details, Stock Supervisor can access and view Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click on the view tool details option. Provide ToolID	Tool Details should be displayed	As Expected	Pass
3	Click Update button	Verify if all tool information (tool name, description, quantity) is displayed correctly Tool Details should be accurate	As Expected	Pass

Test case ID	TC_11		Test Case description		Test the read/view Tools details in the inventory of the Tool Management System
Created by	Ama		Date Created	March 30, 2024	
Tester's Name	Ama		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser		
2	Login to the Tools Management System		
3	Access to the Stock Supervisor Dashboard		
4	Access the Manage Stock Interface		
5	Click on the View option		

Test Scenario	View existing tool details, Stock Supervisor can access and view Tool details

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click on the view tool details option and Without Provide ToolID	Display Message " Should be enter the ToolID"	As Expected	Pass
3	Click Update button	Stock Supervisor cannot view tool details successfully	As Expected	Pass

Test case ID	PM1		Test case Description	Testing the Insert of valid project details	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P001
2	Login to the Tools management system	2	Project name = EOT & Monorail cranes Manufacturing and installation
3	Access to the Manager Dashboard	3	Description = Client: CCB Envico Pty Ltd-Australia.
		4	Site Supervisor id = SiteS001
		5	Site Supervisor name =Saman Kumara
		6	Location id =L001
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date =24th April 2024
Test Scenario	Verify on system response entering valid project details(positive)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Project id, Project id, Project Name, Description, Site Supervisor, Site Supervisor name, Location id & Location name	Credential can be	As Expected	Pass
3	Click Add button	Projects details are added successfully	As Expected	Pass

Test case ID	PM2		Test case Description	Testing the Insert invalid project details	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P002
2	Login to the Tools management system	2	Project name = Manufacturing and installation,2 over Head travelling crane
3	Access to the Manager Dashboard	3	Description = Client: Squire Mech Engineers Pvt Ltd.
4	Access to the Project managing section	4	Site Supervisor id = SiteS002
		5	Site Supervisor name =Hemal Perera
		6	Location id =L002
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 2nd March 2008
Test Scenario	Verify system response when entering invalid project details(Negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Project id, Project id, Project Name, Description, Site Supervisor, Site Supervisor name, Location id & Location name	Display an Alert of error message such as "Enter a valid Date".	As Expected	Pass
3	Click Add button	Display an error message "Project details are not added successfully".	As Expected	Pass

Test case ID	PM3		Test case Description	Testing the insert of Project details in partially empty fields.	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =[empty]
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =[empty]
		7	Location Name = [empty]
		8	Date = 6th of July 2024
Test Scenario	Verify on system response when update by empty project details,		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Project id, Project id, Project Name, Description, Site Supervisor, Site Supervisor name, Location id & Location name	Display an Alert of error "All fields should be filled".	As Expected	Pass
3	Click Add button	Display an error message "Project details are not added successfully".	As Expected	Pass

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Test case ID	PM4		Test case Description	Test the update of Project details partially empty.	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P003
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =[empty]
		6	Location id =S003
		7	Location Name = [empty]
		8	Date = 6th of July 2024
Test Scenario	Verify on updating partially empty project details.(Negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Project id, Project id, Project Name, Description, Site Supervisor, Site Supervisor name, Location id & Location name	Display an Alert of error message "All the fields should be flled".	As Expected	Pass
3	Click update button	Display an error message "Project details are not Updated successfully".	As Expected	Pass

Test case ID	PM5	Test case Description	Test the updating of Project details of non existing project.
Created By	Manuji	Date Created	29-Mrach-2024

Tester's Name	Manuji	Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P889
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =S003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify system on updating project details of non-existing project.(Negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Project id, Project id, Project Name, Description, Site Supervisor, Site Supervisor name, Location id & Location name	Display an Alert of error message "enter valid project id".	As Expected	Pass
3	Click Update button	Display an error message "Project details are not updated successfully".	As Expected	Pass

Test case ID	PM6		Test case Description	Testing the Update of valid project details	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P006
2	Login to the Tools management system	2	Project name = Installation of Water treatment plant
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = K004
		5	Site Supervisor name =prasad adikari
		6	Location id =S003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify on system should response, when updating by valid project details.(positive)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter Project id, Project id, Project Name, Description, Site Supervisor, Site Supervisor name, Location id & Location name	Credential can be	As Expected	Pass
3	Click Add button	Display an error message "Project details are updated successfully".	As Expected	Pass

Test case ID	PM7	Test case Description	Testing the view of Project details non existing project	
Created By	Manuji	Date Created	29-Mrach-2024	
Tester's Name	Manuji	Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P789
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =L003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify system response when viewing non existing project.(Negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click View button	Display an error message "Project id is not valid".	As Expected	Pass

Test case ID	PM8	Test case Description	Testing viewing of Project details when enter project id invalid format	
Created By	Manuji	Date Created	29-Mrach-2024	
Tester's Name	Manuji	Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =SS90
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =L003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify system response when viewing project details by entering project id in invalid format.(Negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click View button	Display an error message "Project id is not valid".	As Expected	Pass

Test case ID	PM9		Test case Description	Test the viewing of Project details	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P011
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =L013
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify system should response when viewing project details by entering valid project id.(positive)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click View button	Display project data	As Expected	Pass

Test case ID	PM10		Test case Description	Test the delete of Project details by entering invalid project id
Created By	Manuji		Date Created	29-Mrach-2024
Tester's Name	Manuji		Date Tested	29-Mrach-2024

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =kj67
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =S003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify on system should response when delete project details by entering invalid project id.(negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click delete button	Display an Alert of error "Enter valid project id".	As Expected	Pass

Test case ID	PM11		Test case Description	Test the delete of Project details of non-existing project	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P999
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =S003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verify system should response when delete project details by entering non existing project id.(Negative)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click Delete button	Display an Alert of error "Enter valid Project id".	As Expected	Pass

Test case ID	PM12		Test case Description	Testing the deleting the of Project details	
Created By	Manuji		Date Created	29-Mrach-2024	
Tester's Name	Manuji		Date Tested	29-Mrach-2024	Test Case

S#	Prerequisites	S#	Test Data
1	Access to chrome Browser	1	Project id =P003
2	Login to the Tools management system	2	Project name = All Mechanical Installation of Water treatment plant & Intake.
3	Access to the Manager Dashboard	3	Description = Client: Abeima
		4	Site Supervisor id = SiteS003
		5	Site Supervisor name =prasad adikari
		6	Location id =S003
		7	Location Name = Wastewater pump stations in Dehiwala, Mount Lavinia and Kolonnawa.
		8	Date = 6th of July 2024
Test Scenario	Verifying on system should response when delete project details by entering valid project id(Positive)		

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not Executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Click delete button	Display an message "Project details are deleted successfully".	As Expected	Pass

Requirement: Assign tools to specific projects

Positive Test Case 01

Test case ID	PC12		Test Case description		Test the successful tool assignment
Created by	Ganga	Date Created	March 30, 2024		
Tester's Name	Ganga	Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Project_Id= 001
2	Login to the Tools Management System	2	Project_name = Water Treatment Plant Expansion
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 10

Test Scenario	Test the successful tool assignment

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	select specific project	System displays a list of available projects and choose desired project	As expected	Pass
2	Navigates to the tool inventory	System redirects site supervisor to the tool inventory section	System successfully redirects the site supervisor to the tool inventory section	Pass
3	Selects required tools.	Display s list of available tools and can	As Expected	Pass

		be choose the required ones.		
4	Assigns tools to the project	The system confirms successful assignment of tool to the chosen project	Successfully assigns the selected too to the chosen project and displays a success message	Pass

Positive Test case 02

Test case ID	TC13	Test Case description		Verification of tool assignment
Created by	Ganga	Date Created	March 30, 2024	
Tester's Name	Ganga	Date Tested	March 30, 2024	Test case
				Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Project_Id= P001
2	Login to the Tools Management System	2	Project_name = Water Treatment Plant Expansion
3	Access to the Site Supervisor Dashboard	3	Tool_Id=T001
			Quantity = 10

Test Scenario	Verify that the site supervisor can assign tools to their specific projects successfully

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Selects a specific project	System displays a list of available projects and can be choose the desired project	As Expected	Pass
2	Navigates to the project details	System redirect the site	As Expected	Pass

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		supervisor to the project details page for the selected project on the project details page			
3	Verifies the list of assigned the list of assigned tools.	System displays the list of tools assigned to the project details page.	As Expected	Pass	
4	Cross references the assigned tools.	Compares the list of assigned tools displayed on the project details page with the inventory records.	As expected.	Pass	

Negative Test Case

Test case ID	TC14		Test Case description		Test the Unsuccessful tool assignment
Created by	Ganga		Date Created	March 30, 2024	
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case
					Pass
S#	Prerequisites			S#	Test Data
1	Access to chrome browser			1	Project_Id= 001
2	Login to the Tools Management System			2	Project_name = Water Treatment Plant Expansion
3	Access to the Site Supervisor Dashboard			3	
					Quantity = 10
Test Scenario	Verify Unsuccessful tool assignment				

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	select specific project	System displays a list of available projects and choose desired project	As expected	Pass
2	Attempts to assign tools	Check if the selected tool is available in the inventory and not assigned to another project	Site supervisor attempts to assign the tools , but it is already assigned to another project or unavailable in inventory.	Pass
3	Verifies the assignment status	Displays an error message indication that the tool assignment was unsuccessful	As Expected	Pass
4	Assigns tools to the project	The project details and records remain unchanged, showing no assignment of tools to the project.	Project details and inventory records remain unchanged, indicating that the tool assignment did not occur	Pass

Requirement 02-Create report about tool status.

Positive Test Case 01

Test case ID	TC15		Test Case description		Test Status report creating	
Created by	Ganga		Date Created	March 30, 2024		
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Report_Id= Rep001
2	Login to the Tools Management System	2	Report_Type = Tool status report
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 5

Test Scenario	Test Status report creating

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigates to the reporting section	System provides an option for site supervisor to generate a report about tool status.	As Expected	Pass
2	Selects the option to create a report	System presents a form where the site supervisor can input parameters for the report generation.	As Expected	Pass
3	Fill the required information	Inputs necessary details such as project name, tools Id, data range etc for the report.	As Expected	Pass

4	Submits the report request	System processes the report request and generates a comprehensive report about the status of the specified tools.	As Expected	Pass

Positive Test case 02

Test case ID	TC16		Test Case description		Test generated report contains accurate information
Created by	Ganga		Date Created	March 30, 2024	
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Report_Id= 001
2	Login to the Tools Management System	2	Report_type=Tool status report
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 5

Test Scenario	Test generated report contains accurate information

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Receives the generated report.	System delivers the generated report to the site supervisor in readable and accessible format	As Expected	Pass
2	Reviews the report contents.	Generated report contains accurate	As Expected	Pass

		information regarding tool condition , usage history maintenance requirements.		

Negative Test Case

Test case ID	TC17		Test Case description		Test the Unsuccessful tool status report generation
Created by	Ganga		Date Created	March 30, 2024	
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Report_Id= R001
2	Login to the Tools Management System	2	Report_Type = Tool status report
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 5

Test Scenario	Verify Test the Unsuccessful tool status report generation

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigates to the reporting section	System provides an option for generate a report about tool status	As expected	Pass
2	Selects the option to create a report	System presents a form to input parameters for the report generation.	As Expected	Pass

3	Fills in the required information	Inputs necessary details such as project name, tool Id ,data range for the report	Attemts to input incorrect or incomplete information in the report form.	Pass
4	Submits the report request	System detects the incomplete or incorrect information and prompts the site supervisor to correct it.	As Expected	Pass

Requirement 3:Send required tool report to stock supervisor

Positive Test Case

Test case ID	TC18		Test Case description		Send required tool report	
Created by	Ganga		Date Created	March 30, 2024		
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case	Pass
S#	Prerequisites			S#	Test Data	
1	Access to chrome browser			1	Report_Id= R001	
2	Login to the Tools Management System			2	Report_Type = Tool status report	
3	Access to the Site Supervisor Dashboard			3		
					Quantity = 5	
Test Scenario	Send required tool report					
Step #	Step Details		Expected Results		Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigates to the reporting section		System provides an option create		Successfully accesses the reporting section	Pass

		a new tool report		
2	Creates a new tool report	System presents a form to input parameters for the report generation.	Fills the required information accurately in the report form	Pass
3	Submits the tool report	Successfully sends the tools report to stcok supervisor	Show successful message.	Pass

Negative Test Case

Test case ID	TC19	Test Case description		Unsuccessful sending of required tool report	
Created by	Ganga	Date Created	March 30, 2024		
Tester's Name	Ganga	Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Report_Id= R001
2	Login to the Tools Management System	2	Report_Type = Tool status report
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 5

Test Scenario	Unsuccessful sending of required tool report

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Create a new tool report	Present a form to input required information,including site name, location and tool description.	Fills in incomplete or incorrect information in the	Pass

			report form.	
2	Submits the tool report	System detects the incomplete or incorrect information and promts to correct it.	As Expected	Pass
3	Submits the tool report	Successfully sends the tools report to stcok supervisor	Show successful message.	Pass

Requirement: Send confirmed message to stock supervisor after toolbox check

Positive Test Case

Test case ID	TC20		Test Case description		Sends confirmed message to stock supervisor	
Created by	Ganga		Date Created	March 30, 2024		
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data	
1	Access to chrome browser	1	Barcode_Id=b001	
2	Login to the Tools Management System	2	Tool_Box_Id= tb001	
3	Access to the Site Supervisor Dashboard	3		
			Quantity = 5	

Test Scenario	Sends confirmed message to stock supervisor

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Scans the barcode on the tool box	System identifies the toolbox and retrieves its information, including status and contents.	Barcode scanner successfully reads the barcode on the tool box and the system	Pass

			retrieves relevent information.	
2	Verifies the toolbox status	Ensures that the toolbox is in the expected condition and contains the requires tool.	As Expected	Pass
3	Sends a confirmation message	Selects the option to send a confirmation message to the stock supervisor, indicating a successful toolbox check.	Successfully sends a confirmation message to the stock supervisor.	Pass

Positive Test Case

Test case ID	TC21		Test Case description		Confirmation message contains relevent details.
Created by	Ganga	Date Created	March 30, 2024		
Tester's Name	Ganga	Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Barcode_Id=b001
2	Login to the Tools Management System	2	Tool_Box_Id= tb001
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 5

Test Scenario	Confirmation message contains relevent details.

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Recieves the confirmation message.	System delivers the confirmation message to the stock supervisor indicating a successful toolbox check.	Successfully receives the confirmation message from the site supervisor.	Pass
2	Reviews the message contents.	Confirmation message includes such as the toolbox status("Checked"), any discrepancies found during the check and actions taken.	The stock supervisor reviews the message contents and finds all relevent de	Pass
3	Sends a confirmation message	Selects the option to send a confirmation message to the stock supervisor, indicating a	Successfully sends a confirmation message to the stock supervisor.	Pass

		successful toolbox check.		

Negative Test Case

Test case ID	TC22		Test Case description		Unsuccessful toolbox confirmation
Created by	Ganga		Date Created	March 30, 2024	
Tester's Name	Ganga		Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	Barcode_Id=b001
2	Login to the Tools Management System	2	Tool_Box_Id= tb001
3	Access to the Site Supervisor Dashboard	3	
			Quantity = 5

Test Scenario	Unsuccessful toolbox confirmation

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Scans the barcode on the tool box.	System identifies the toolbox and retrieves its information, including status and contents.	Barcode scanner successfully reads the barcode on the toolbox, and the system retrieves relevent information.	Pass
2	Verifies the toolbox status	Finds discrepancies in the toolbox condition or contents, indicating an unsuccessful check.	As Expected	Pass

3	Attempts to send a confirmation message.	System prevents the site supervisor from sending the confirmation message and prompts them to resolve the issues.	As Expected	Pass

Requirement: User Management

Positive Test Case 01

Test case ID	TC23	Test Case description		Test the User Registration	
Created by	Nishadi	Date Created	March 30, 2024		
Tester's Name	Nishadi	Date Tested	March 30, 2024	Test case	Pass
S#	Prerequisites		S#	Test Data	
1	Access to chrome browser		1	User_ID=02	
2	Login to the Tools Management System		2	First name= Nishadi	
3	Access to the Site Admin Dashboard		3	Last name=Sansala	
			4	NIC=200053303135	
			5	Password=N@123	
			6	Contact=+94760644176	
			7	User name=nishu12213@gmail.com	
			8	Position =Admin	
Test Scenario	Verify on entering User details, Admin can add new User				

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter User_ID, First name, Last name, NIC, Password, Contact, User name, position	Credential can be	As Expected	Pass
3	Click Add button	Admin can add new User Details	As Expected	Pass

Test case ID	TC_24	Test Case description		Test the User Registration	
Created by	Nishadi	Date Created	March 30, 2024		

Tester's Name	Nishadi	Date Tested	March 30, 2024	Test case	Pass

S#	Prerequisites	S#	Test Data
1	Access to chrome browser	1	User_ID=02
2	Login to the Tools Management System	2	First name= Nishadi
3	Access to the Stock Supervisor Dashboard	3	Last name=Sansala
4	Access to Manage Stock interface	4	NIC=200053303135
		5	Password=N@123
		6	Contact=123
		7	User name=nishu12213@gmail.com
		8	Position =Admin

Test Scenario	Verify on entering invalid Phone number with user details, Admin can not add new User

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/ Suspended
1	Navigate to https://www.dilumbmkengineers.com	Site should open	As Expected	Pass
2	Enter User_ID, First name, Last name, NIC, Password, Contact, User name, position	Display an Alert of error "Enter valid	As Expected	Pass

			Phone Number"		
3	Click Add button		Display an error message "New User is not added successfully"	As Expected	Pass

Test Case Id	TC_25		Test Case Description		Verify successful user registration with a valid phone number.
Created By	Nishadi		Date Created		2024/05/06

Tester's Name	Nishadi	Date Tested	2024/05/08	Test Case	Pass

S#	Prerequisites
1	Go to the Dilum BMK Website.
2	Access to the register customer form
3	Required fields are clearly defined as red in color star mark

S#	Test Data
	Phone number 0714525999
	Phone number 0778525895

Test Scenario	When registering a user with a valid phone number.

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/Suspended
1	Go to the Dilum BMK web page.	Show the website home page to the user	As Expected	Pass
2	Click the "Login" button.	Popup login form	As Expected	Pass
3	Click the "New user registration" button.	Popup user Registration form	As Expected	Pass
4	Fill in all required fields with valid data.	Fill in all required fields	As Expected	Pass
5	Enter a valid phone number in the Phone Number field.	System should accept the phone number as valid	As Expected	Pass
6	Proceed with the registration process.	Registration should be successful	As Expected	Pass
7	Attempt to register with a new valid phone number.	System should accept the new valid phone number	As Expected	Pass

Test Case Id	TC_26	Test Case Description	Verify unsuccessful user registration with a duplicate phone number.
Created By	Nishadi	Date Created	2024/05/06

Tester's Name	Nishadi	Date Tested	2024/05/06	Test Case	Pass

S#	Prerequisites
1	Navigate to https://www.dilumbmkengineers.com
2	Access to the register User form
3	Required fields are clearly defined as red in color star mark

S#	Test Data
	Phone number 0784490388
	Phone number 0784490388

Test Scenario	When registering a user with a duplicate phone number.

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/Suspended
1	Navigate to https://www.dilumbmkengineers.com	Show the website home page to the user	As Expected	Pass
2	Click the "Login" button.	Popup login form	As Expected	Pass
3	Click the "New user registration" button.	Popup User Registration form	As Expected	Pass
4	Fill in all required fields with valid data.	Fill in all required fields	As Expected	Pass
5	Enter a phone number that already exists in the database in the Phone Number field	System should reject the phone number as it duplicate	As Expected	Pass
6	Proceed with the registration process.	Registration should be unsuccessful	As Expected	Pass
7	Attempt to register with a new duplicate phone number.	System should reject the duplicate phone number with an error	As Expected	Pass

Test Case Id	TC_27	Test Case Description	Valid user deletion.
Created By	Nishadi	Date Created	

Tester's Name	Nishadi	Date Tested	2024/04/14	Test Case	Pass

S#	Prerequisites
1	Log in to the system as Admin.
2	Access to the user table.

S#	Test Data
1	UserId=001

Test Scenario	To verify an existing user is successfully deleted.

Step #	Step Details	Expected Results	Actual Results	Pass/Fail/Not executed/Suspended
1	Login into the system as Admin	Show the admin dashboard.	As Expected.	Pass
2	Click the "Users" button in the sidebar.	Show the "Users" button in the sidebar.	As Expected.	Pass
3	Navigate the user table	Show the user table.	As Expected.	Pass
4	Click the "Delete" button in the user table.	Click the "Delete" button.	As Expected.	Pass
5	Display confirmation message box.	Expect a confirmation message box to appear.	As Expected.	Pass
6	Delete the user by clicking "OK".	User deleted; alert message: "User delete successful"	As Expected.	Pass
7	Click the "Cancel" button.	User deletion canceled, table refreshed	As Expected.	Pass