



TEST REPORT

Eshop



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Software Testing Life Cycle (STLC): It is a sequence of specific actions performed during the testing process to ensure that the software quality objectives are met. The STLC includes both verification and validation. The STLC is a high-quality strategy directly associated with and part of the Software Development Life Cycle (SDLC), which in turn is a framework with 6 core phases.

Phase - 1 : Requirements Analysis

In systems engineering and software engineering, **requirements analysis** focuses on the tasks that determine the needs or conditions to meet the new or altered product or project, taking account of the possibly conflicting requirements of the various stakeholders, analyzing, documenting, validating and managing software or system requirements.

Functional Requirements (FR): A Functional Requirement (FR) is a description of the service that the software must offer. It describes a software system or its component.

FR - 01	Keeping records of products
Description	The products which are launched for selling in the system Eshop will be kept details about quality, quantity, brand, price, seller information and location.
Priority	High

FR - 02	Keeping record of admission of customer and access control
Description	There are three types of stakeholders - user, seller and admin. They are not privileges same, so access components are based on stakeholder roles.
Priority	High

FR - 03	Keeping the daily sell
Description	About the daily purchases, payments and products launching information.
Priority	Medium

FR - 04	Keeping the details of product it is delivered or not
Description	After approving purchase by admin checking whether the products are delivered by particular agent.
Priority	Medium

FR - 05	Storing the items selected by the customer in the temporary storage
Description	Database need for hold cart items which are selected by user for their purchase.
Priority	High

FR - 06	Storing the feedback given by the customer
Description	Customer will be able to express their opinion and any query for any particular product.
Priority	Low

FR - 07	Registration to the system
Description	For purchasing or launch any product user and seller have to register with the system.
Priority	High

FR - 08	Minimum steps to make purchase
Description	User should not go through a long process to order any products and increase user experience.
Priority	Medium

FR - 09	Product attributes
Description	Product image, quantity, brand , product details,seller info and stock.
Priority	High

FR - 10	Mobile friendliness
Description	Make sure responsive implementation is professionally executed and user who are using the system with mobile should not seem to use the system complex.
Priority	High

FR - 11	Unique and recognizable design
Description	User should not confused whether they are using Eshop platform or not, so design should be unique.
Priority	Medium

FR - 12	Relevant useful content
Description	All module documents and uses should stored in a planned way.
Priority	Low

FR - 13	Email news letter tools
Description	We will use email section for the confirmation and news give to user and also for seller.
Priority	Medium

FR - 14	Shipping and payment systems integration
Description	Payment and shipping information have to process properly so that user can reliable with the Eshop sytem.
Priority	High

FR - 15	User ability after order placing
Description	User can change the order, cancel the order , track the order and able to apply for return of products within a particular time
Priority	Medium

FR - 16	Guest checkout
Description	People who are not yet register to the system can checkout product and can store it in cart.
Priority	Medium

FR - 17	Search engine optimization
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

Non-functional (NFR): Non-functional requirements define system attributes.

NFR - 01	Security
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 02	Performance
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 03	Reliability
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 04	Scalability
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 05	Maintainability
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 06	Portability
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 07	Extensibility
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

NFR - 08	Reusability
Description	Developer need to optimize search section sothat uer can get relevant products through their searching. They'll be able to search by category/products name.
Priority	High

***Requirements are verified by forward traceability**

Forward Traceability: Each requirement has a unique name or reference number in all the documents.

Requirement Traceability Matrix (RTM): Requirement Traceability Matrix is a document that maps and traces user requirement with test cases.

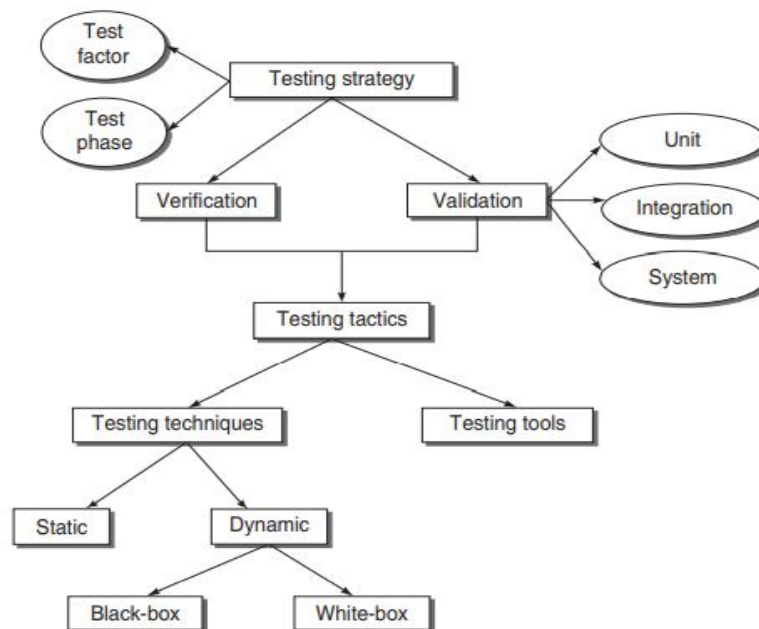
Project Name: Eshop			RTM	Business Area: Education (STQA Lab)		
Project Manager: Akash & Saifur				Business Analyst Lead: Saifur		
QA Lead: Akash				Implementation Date: 17/02/2022		
Functional						
Require-ments	Priority	Requirement description	Test case reference	Code module reference	Validation	Comments
FR-1	Should have	Keeping the records of products	TC05, TC06	index.php	Verified	Covered
FR-2	Mandatory	Keeping records of admission of customers and access control	TC03, TC04	login.php	Verified	Covered
FR-3	Should have	Keeping the daily sell	TC08	Order-list.php	Verified	Covered
FR-4	Mandatory	Keeping details about the pro-duct it is deliver-ed or not	TC17	Confirm-order.php	Verified	Covered
FR-5	Mandatory	Storing the items selected by the customer in the temporary storage	TC11, TC14	view_cart.php	Verified	Covered
FR-6	Should have	Storing the feedback given by the customer	TC07	contact.php	Verified	Covered
FR-7	Mandatory	Registration to the system	TC01, TC02	login.php	Verified	Covered
FR-8	Should have	Minimum steps to make a purchase	TC18, TC19	index.php, view_cart.php, shipping.php	Verified	Covered
FR-9	Mandatory	Product Attributes	TC12, TC13	view-product.php	Verified	Covered
FR-10	Mandatory	Mobile friendliness	TC16		Verified	Covered
FR-11	Should have	Unique, recognizable design				Not Covered
FR-12	Should have	Relevant, useful content	TC09, TC10		Verified	Covered
FR-13	Should have	Email newsletter tools				Not Covered

FR-14	Mandatory	Shipping & payment systems integration	TC15	shipping.php	Verified	Covered
Non-functional						
NFR-1	Mandatory	Security	TC20	login.php	Verified	Covered
NFR-2	Mandatory	Performance	TC21, TC22		Verified	Covered
NFR-3	Mandatory	Reliability	TC23		Verified	Covered
NFR-4	Mandatory	Scalability	TC24		Verified	Covered
NFR-5	Should have	Maintainability	TC25		Verified	Covered
NFR-6	Mandatory	Portability	TC26, TC24		Verified	Covered
NFR-7	Should have	Extensibility	TC25, TC26		Verified	Covered
NFR-8	Should have	Reusability				Not Covered

Phase - 2 : Test Planning

Test Plan: Template is a detailed document that describes the test strategy, objectives, schedule, estimation and deliverables, and resources required for testing.

Testing Strategy: It is the planning of the whole testing process into a well-defined services of steps.



Test Factors: Test factors are risk factors or issues related to the system under development.

Test Factors of E-Shop

- I. User can not login to the system with invalid credentials.
- II. User won't able to see database files or other users information.
- III. User won't able to modify product item attributes.
- IV. Price of products in cart should calculate accurately.
- V. User won't be able to interrupt or access on any part in admin panel.
- VI. System will portable to almost every hardware.

Test Phase : Requirements gathering, requirements specification, functional design(HLD), internal design (LLD), coding. [SDLC]

Test Strategy Matrix

Test Factors	Test Phase					
Factor id	Requirements	Design	Code	Unit test	Integration Test	System Test
I	User registered to the system?		Allow sql query in username and password field?	Prohibit invalid query?		
II		Is system exploits the private files?	Is encryption used for database files?			
III		Is prduct item is editable by user?		Is user module has connection to products add/edit class?		Is only admin able to change attributes?
IV		Is indexing in cart done properly?	Has sum and multiplication method inconsistency?			

V	Is user need to access admin?					Is admin module completely partitioned from user module?
VI	Which os & hardware should support this system?					Is the system run on mac/windows/linux or android?

Best suited Testing Approach

- Functional Testing
- Usability Testing
- Security Testing
- Performance Testing
- Database Testing

Roles and responsibilities

Roles	Responsibilities	Persons
Test Manager	Manage the whole project, acquire appropriate re-sources and control team members.	Akash & Saifur
Test Analyst	Identify test conditions and features.	
Software Development Engineer in Test	Develop tools for testing.	
Software Test Engineer	Test the overall system using appropriate testing approach and instruments	
Test Architect	Design various suitable testing models	
SQA team	Check to confirm whether the testing process is meeting specified requirements	
Developer in Test	Implement the test cases, test program, test suite etc.	

Identifying the testing techniques and testing types

Testing Techniques	Testing Type	Perform on
Dynamic Testing (Black Box)	Boundary Value Analysis	Functional requirements, code
	Equivalence Class Partitioning	
	Cause-effect Graph	
Dynamic Testing (White Box)	Logic Coverage Criteria	Structure, design, code
	Basic Path Testing	
	Control Flow Graph	
	Graph Matrix	
	Connection Matrix	
Static Testing	Inspection	Whole system without execute code
Validation Testing	Unit Testing	Code Module
	Integration Testing	Merged code
	Function Testing	Functional design
	System Testing	SRS
	Acceptance Testing	Conformance to gathered requirements
	Installing Testing	Adaptability with operating machine
Regression Testing	Test Prioritization	Testing requirements

Testing tool: No Testing Tool used.

Test Planning Checklist: It is designed to help tester think about the project you are working on, identify potential gaps and potentially give you new ideas on how to approach your testing. These can't nor won't always cover all the things that tester should be considering, but they are a step in the right direction to help you think and analyse the software under test. It works as a guide. The checklist contains the basic tasks that are involved in developing a test plan. By using the checklist, you can ensure that you complete important sections in your test plan.

#1) Homepage

• Is it going to auto scroll? Test result – Yes.
• If yes, at what interval will the image be refreshed? Test result – No auto refresher.
• When the user hovers over it, is it still going to scroll to the next one? Test result – No.
• Can it be hovered on? Test result – Yes.
• Can it be clicked on? Test result – Yes.
• If yes, is it taking to the right page and right deal? Test result – Yes.
• Is it loading along with the rest of the page or loads last in comparison to the other elements on the page? Test result – load along rest of the page.
• Can the rest of the content be viewed? Test result – Yes.
• Does it render the same way in different browsers and different screen resolutions? Test result – Chrome and mozilla rendered properly nad also render in 1080x1024 and also higher.

#2) Search

• Search based on the Product name, brand name, or something more broadly, the category. Test result – Category and product name.
• Is search Results have relevant? Test result – Yes.
• Different sort options have to be available- based on Brand, Price, and Reviews/ratings etc. Test result – Yes, show properly.
• How many results to display per page? Test result – displays 6 in computer browser and 1 in mobile-phone.
• For multi-page results, are there options to navigate to them? Test result – No.

#3) Product Details

• Image or images of the product. Test result – Render accurately.
• Price of the product. Test result – Show price below the product.
• Product specifications. Test result – Has no details and stocks.
• Reviews Test result – No review section.
• Check out options Test result – Checkout operate smoothly.
• Delivery options Test result – Home delivery by address.
• Shipping information? Test result – user unable to know.
• In-stock/Out of stock info? Test result – Not exist.
• Multiple color or variations options? Test result – No.

#4) Shopping Cart

• Add items to the cart and continue shopping. Test result – Works properly.
• If the user adds the same item to the cart while continuing to shop, the item count in the shopping cart should get incremented. Test result – Pass, comply to the same.
• All items and their totals should be displayed in the cart. Test result – Pass.
• Taxes as per location should be applied. Test result – No taxes info.
• A user can add more items to the cart. Test result – Pass.
• Update the contents added to the cart. Test result – Pass, user can edit product number in the cart.
• Remove items from the cart. Test result – Pass.
• Proceed to checkout. Test result – Pass.
• Calculate Shipping costs with different shipping options. Test result – Yes.
• Apply coupons. Test result – No section.
• Don't check out, close the site, and come back later. The site should retain the items in the cart. Test result – Pass.

#5) Payments

• Has different payment options? Test result – Bkash, Nagad, Rocket has found.
• Is allowing check out as Guest, simply finish the purchase and provide an option to register at the end? Test result – No, there're no functionality for guest.
• Login to check out? Test result – only for registered user can checkout.
• User sign up. Test result – email, username and with a password.
• If storing customer Credit card or any other financial information, perform security testing around this to make sure it is secure. Test result – Eshop system only use mobile banking.
• If the user is signed up for a long time, make sure the session is timed out or not. Every site has a different threshold. For some, it is 10 minutes. For some, it might be different. Test result – session will stop when user logout to the system.
• Text confirmation with the order number generated. Test result – Not build yet.

#6) Web Standards Test

• Run html validation check. Test result – Pass.
• Run css validation check Test result – Pass.

#6) SEO Test

• Structure of URLs. Test result – Correct.
• Unique title for each page and product page. Test result - Pass
• Title tag should include product name and category. Test result – Pass.
• Meta description for each page. Test result – Fail.
• Alt text has been added for all images. Test result – Pass.

Phase - 3: Test Case Development

Test cases are typically written by members of the quality assurance (QA) team or the testing team and can be used as step-by-step instructions for each system test. Testing begins once the development team has finished a system feature or set of features. A sequence or collection of test cases is called a test suite. Test Suites can be authored as single documents, or nested in a hierarchy using Test Groups or included documents.

Test case : A test case is a set of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly.

Functional Test Cases

ID	Test case	Verification	Test Data
TC01	Check customer registration with valid email	Valid	Email: <u>saif@gmail.com</u> username: saifur pass: saif1234
TC02	Check customer registration with invalid email	Invalid	Email:hello,username: saifur Pass: saif1234
TC03	Check customer login with valid data	Valid	Username = saif99 Password = pass99
TC04	Check customer login with invalid data	Invalid	Username = saif99 Password = pass99
TC05	Test to product add to cart button with minimum quantity	Valid	quantity= 1
TC06	Test to product add to cart button with maximum quantity	Valid	quantity= 50
TC07	Check customer feedback successfully send to the system	Valid	
TC08	Check daily sell record store in the system	Valid	
TC09	Check the search using a product name.	Valid	Product name= t-shirt
TC10	Check the search using a category name.	Valid	Category name= shirt
TC11	Check website users can easily add/remove products to/from a shopping cart.	Valid	
TC12	Check users can add the same product multiple times	Invalid	

TC13	Check to add the same products in different variations – color, size, etc.	Valid	
TC14	Check users can add products from different categories to the cart.	Valid	
TC15	Check Items in the cart are displayed with correct names, images, and prices.	Valid	
TC16	Check items are clickable, and the links lead to corresponding product pages.	Valid	
TC17	Check an order price updates when a user adds/removes a new item to/from the cart.	Valid	
TC18	Test Customers can check out and pay as users with registration.	Valid	
TC19	Test Customers can check out and pay as guest users without registration.	Invalid	

Non-functional Test Cases

ID	Test case	Verification	Test Data
TC20	Check it takes the expected time for a user to log in with the correct credentials.	Valid	Username= saif Password=1234
TC21	Check page loading speed is acceptable.	Valid	
TC22	Check the carousel auto scrolls and the scrolling interval.	Valid	
TC23	Check an application should be available at different battery conditions, including charging.	Valid	
TC24	Check a user should be able to log in from different devices simultaneously.	Valid	Username= saif Password=1234
TC25	Check the information from different devices should synchronize momentarily.	Valid	
TC26	Check the application should not cause device heating or battery draining.	Valid	

Phase - 4 : Test Environment Setup

This phase includes the setup or installation process of software and hardware which is required for testing the application.

Hardware (Desktop / Laptop)

- ✓ RAM : 512 MB or more
- ✓ Hard drive : 1 GB or above
- ✓ Processor : 1.80 GHz or above

Software

- ✓ Operating System : Windows 7 or above / Linux / Mac
- ✓ Browser : Chrome / Mozilla / opera / Brave latest versions
- ✓ Code editor : Visual Studio Code

We installed OS - window 10 Home, 4GB RAM and 1TB hard-disk, processor - Intel(R) Core(TM) i3-3110M CPU @2.40GHz, chrome browser and Visual studio code as editor.

Phase - 5 : Test Execution

In this phase the test cases are executed in the testing environment. While execution of the test cases the QA team may find bugs which will be reported against that test case. This bug is fixed by the developer and is retested by the QA.

Functional test case execution

ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TC01	Check Customer Registration with valid Email	1. Go to site http://localhost/eshop/login.php 2. Click SignUp button 3. Enter valid email and others data 4. Click SignUp	Email: saif@gmail.com username: saifur Phone number: 0182637623 Pass: saif1234	User should Registration into an application	As Expected	Pass
TC02	Check Customer Registration with invalid Email	1. Go to site http://localhost/eshop/login.php 2. Click SignUp button 3. Enter valid email and others data Click SignUp	Email: hello..... username: saifur Phone number: 0182637623 Pass: saif1234	User should not Registration into an application	As Expected	Pass
TC03	Check Customer Login with valid Data	1. Go to site http://localhost/eshop/login.php 2. Enter Username 3. Enter Password Click Submit	Username = saif99 Password = pass99	User should Login into an application	As Expected	Pass
TC04	Check Customer Login with invalid Data	1. Go to site http://localhost/eshop/login.php 2. Enter Username 3. Enter Password Click Submit	Username = saif99 Password = pass99	User should not Login into an application	As Expected	Pass
TC05	Test to product add to cart button with minimum quantity	1. Go to site http://localhost/eshop/login.php 2. Product quantity set at least 1 & Click Add to cart button	quantity= 1	User should add the product to the cart	As Expected	Pass
TC06	Test to product add to cart button with maximum quantity	1. Go to site http://localhost/eshop/login.php 2. Product quantity set maximum 50 3. Click Add to cart button	quantity= 50	User should add the product to the cart	As Expected	Pass
TC07	check customer feedback successfully send to the	1. Go to site http://localhost/eshop/login.php		User should send feedback	Not Expected	Fail

	system	gin.php				
TC08	Check daily sell record store in the system	1. Go to site http://localhost/eshop/login.php		Admin should see daily sell record in the system	As Expected	Pass
TC09	Check the search using a product name.	1. Go to site http://localhost/eshop/login.php 2. Enter product name in the search box 3. Click Search	Product name= t-shirt	User should see the product available	Not Expected	Fail
TC10	Check the search using a category name.	1. Go to site http://localhost/eshop/login.php 2. Enter category name in the search box Click Search	Category name= shirt	User should see the product available	Not Expected	Fail
TC11	Check website users can easily add/remove products to/from a shopping cart.	1. Go to site http://localhost/eshop/login.php Click remove button		User should see the product remove from the shopping cart	As Expected	Pass
TC12	Check users can add the same product multiple times.	1. Go to site http://localhost/eshop/login.php 2. choose product Selected add to cart		User should add product to the cart	Not Expected	Fail
TC13	Check to add the same products in different variations – color, size, etc.	1. Go to site http://localhost/eshop/login.php 2. choose product 3. Selected product color, size variation Different variation Same product add to the shopping cart		User should add different variation same product to the cart	Not Expected	Fail
TC14	Check users can add products from different categories to the cart.	1. Go to site http://localhost/eshop/login.php 2. choose product Selected product add to the shopping cart		User should add different category product to the cart	As Expected	Pass
TC15	Check Items in the cart are displayed with correct names, images, and prices.	1. Go to site http://localhost/eshop/login.php Click view Cart menu option		User should see added product are displayed with correct names, images, and prices in the shopping cart	As Expected	Pass
TC16	Check items are clickable, and the links lead to corresponding product pages.	1. Go to site http://localhost/eshop/login.php Click item products		User should click the product and the links lead to corresponding product pages.	Not Expected	Fail
TC17	Check an order price updates when a user adds/removes a new item to/from the cart.	1. Go to site http://localhost/eshop/login.php 2. Choose product add to cart Remove product add to cart		User should see an order price updates when a user adds/removes a new item to/from	As Expected	Pass

				the cart.		
TC18	Test Customers can check out and pay as users with registration.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 2. User Selected product click to checkout User registration confirm 		User should check out and pay	As Expected	Pass
TC19	Test Customers can check out and pay as guest users without registration.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 2. view cart Click checkout 		User should check out and pay	Not Expected	Fail

Non-functional test case execution

ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TC20	Check it takes the expected time for a user to log in with the correct credentials.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 2. Enter username 3. Enter password 	Username= saif Password=1234	User should login within 2-3 seconds	As Expected	Pass
TC21	Check page loading speed is acceptable.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 		User should see that home page load within 2-3 seconds	As Expected	Pass
TC22	Check the carousel auto scrolls and the scrolling interval.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 		User should see that carousel slider are auto scrolled	As Expected	Pass
TC23	Check an application should be available at different battery conditions, including charging.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 		User should see that application should be available at different battery conditions.	As Expected	Pass
TC24	Check a user should be able to log in from different devices simultaneously.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 2. Enter username 3. Enter password 	Username= saif Password=1234	User should able to log in from different devices simultaneously.	As Expected	Pass
TC25	Check the product information from different devices should synchronize momentarily.	<ol style="list-style-type: none"> 1. Go to site http://localhost/eshop/login.php 2. Choose product 		User should able to see the product information from different devices should synchronize momentarily.	As Expected	Pass
TC26	Check the application should not cause device heating or battery draining.	<ol style="list-style-type: none"> 2. Go to site http://localhost/eshop/login.php 		User should be able to use the system friendly without any battery problem.	As Expected	Pass

Bug Report: A bug report is a specific report that outlines information about what is wrong and needs fixing with software or on a website. The report lists reasons, or seen errors, to point out exactly what is viewed as wrong, and also includes a request and/or details for how to address each issue.

Scenarios	Complexity	Responsible Tester	Date of Execution	Status (Pass/Fail)	BugID	Severity	Status
Verify if a user will be able to register with a valid information.	Medium	Saifur	18-02-2022	Fail	101	High	Registration Error
Verify if a user will be able to login with a valid email and password.	Complex	Akash	18-02-2022	Pass			
Verify if a user will be able to login with a valid email and password.	Complex	Saifur	18-02-2022	Pass			
Check if user will be able to add product to shopping cart	Complex	Akash	18-02-2022	Pass			
Check if admin will be able to change his password	Complex	Saifur	18-02-2022	Fail	102	High	Update Fail
Check if user will be able to input product quantity	Medium	Saifur	18-02-2022	Pass			
Verify if user will be able to remove from cart	Medium	Akash	18-02-2022	Pass			
Verify if user will be able to checkout product and order confirm	Complex	Saifur	18-02-2022	Pass			
Verify that user will be able confirm order and then cart will be empty	Complex	Akash	18-02-2022	Fail	103	High	After order confirmed Cart not empty
Verify that user will not able to checkout without add to cart minimum one product	Complex	Akash	18-02-2022	Fail	104	High	View cart condition failure

*****Detail of Bugs*****

Bug Name: Verify if a user will be able to register with a valid information.

Bug Id: 101

Expect Result: Registration Successfully

Build Version: 1.0

OS: Windows 10

Severity: High

Priority: High

Bug Name: Check if admin will be able to change his password

Bug Id: 102

Expect Result: Updating Successfully

Build Version: 1.0

OS: Windows 10

Severity: High

Priority: High

Bug Name: Verify that user will be able confirm order and then cart will be empty

Bug Id: 103

Expect Result: Cart Updating Successfully

OS: Windows 10

Severity: High

Priority: High

Bug Name: Verify that user will not able to checkout without add to cart minimum one product

Bug Id: 104

Expect Result: Successfully

OS: Windows 10

Severity: High

Priority: High

Phase - 6 : Test Cycle Closure

Test Closure is a document that gives a summary of all the tests conducted during the software development life cycle, it also gives a detailed analysis of the bugs removed and errors found. It evaluate the test completion on the basis of Test Coverage and Software Quality.

Test Closure Report

Test Cycle	Number of test cases	Test case execute	Test case not execute	Test Case pass	Test case fail
Cycle 01	19	19	0	12	7
Cycle 02	7	7	0	7	0
Total	26	26	0	19	7