Manual Testing Project

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Introduction

Name : First Cry

Module name : E-Shopping

Test Scenarios : 1.Login

• 2.Home Page

• 3.Add to cart

• 4.Check out

- Manual Testing was carried out on this module.
- Test Scenarios and Test cases were build according to user requirement.
- Actual result and Status were noted down.

Requirements Phase

- Login functionality should allow the user to login to their accounts with valid credentials.
- The system should allow the user to reset their passwords by clicking on "forgot password".
- Home page should allow the user to navigate to corresponding page using links.
- Cart should display items, total amount and check out button on cart page and allow the users to access the cart page by clicking on the cart icon.
- Check out should allow the user to place an order successfully, make payment quickly.
- Confirm the order, send a confirmation mail to the user and track shipping status of an order.

Design Phase

- Login feature is designed along with user name, password and forgot password option. When user click on login button it should navigate to home page.
- We designed home page to catch user attention and navigate to corresponding page by clicking on images and links that are provided.
- Add to cart option allows the user to add or delete the items from the cart.
- Cart is usually an icon that can be found at top right corner of the home page which shows number of items it holds.
- Check out option designed to make payment safely, securely and quickly by selecting payment methods.

Development Phase

- Agile Methodology was used for the development of online shopping store module.
- Requirements were reviewed.
- Programming language, framework and tools were setup for development of the project.
- Code was developed according to the requirements and design phase following the coding standards.
- Unit test cases were written for the code and increased test coverage,
- Code was executed.
- Built was ready.

Testing Phase

In this phase testing is done by the tester on the built and all the components are tested according to STLC(Software Testing life cycle).

STLC consists of following stages:

- Requirement Analysis
- Test Planning
- Test Case development
- Test Environment setup
- Test Execution
- Test Closure

Requirement Analysis

During this stage we decided to focus mainly on the functionalities such as:

- Log In
- Home Page
- Add To Cart
- Check Out
- We gathered all the functional and non-functional requirements for testing.
- We prioritized on functionalities and sub modules based on their severity.

Test Plan

During this phase roles were assigned to every member of the testing team.

Members	Roles
Test Manager	 Monitors and contacts team lead. Test strategies Level of testing Approval of test plan.
Test Lead	Test plan creationWork distributionTechnically leads team
Test Engineer	 Create test scenarios Design, creation of test cases Defect report Tracking defect till closure
Automotive Architecture	Plans for test automation
Automation Engineer	Script and creation for automationMaintaining scripts for changes

Test Case Development

In this phase test cases were developed and test data was created. For each test case expected results were identified. Test cases were reviewed and validated. Requirement Traceability Matrix was updates to map requirements to test cases.

E-Shopping module contains test scenarios as follows:

- Test Scenario on "Login" functionality.
- Test Scenario on "Home" Page.
- Test Scenario on "Add to Cart".
- Test Scenario on "Checkout".

Test Environment setup

The test environment was setup with required hardware, software and network configurations. The Shopping module was tested on web browser and on mobile device as follows:

Windows – Chrome, Edge and Firefox

Mac OS – Safari

Android Mobile OS – Chrome, Google

• iPhone mobile OS – Safari

Test Execution

Test cases were executed according to test scenario's

1. Test Case for Log In:

TestCase ID	TestCase Objective	Pre-Requisite	Step Data	Expected Result	Actual Result	Status
TC_M1_01	To check user login	1)URL should be open	1)Enter user name	Home Page will be	Home Page displayed	Pass
	with valid credentials	2)User should be	2)Enter password	displayed		
		registered	3)Click on login button			
TC_M1_02	To check user login	1)URL should be open	1)Enter user name	Error Page will be	Error Page displayed	Pass
	with invalid username	2)User should be	2)Enter password	displayed		
		registered	3)Click on login button			
TC_M1_03	To check user login	1)URL should be open	1)Enter user name	Error Page will be	Error Page displayed	Pass
	with invalid password	2)User should be	2)Enter password	displayed		
		registered	3)Click on login button			

Test Cases

2. Test Case for Home page :

TestCase Id	TestCase Objective	Pre-Requisite	Step Data	Expected Result	Actual Result	Status
TC_M2_01	To verify tapping on search	URL should be open	1)Tap on search bar	Search screen will appear with	Search screen appeared with	Pass
	bar opens the search screen		2)Type in any query and press	blinking cursor and micro phone	blinking cursor and micro-	
	with keyboard and voice		enter key for keyboard option	icon and relevant results will be	phone icon	
	input options		3)Tap on microphone icon and	appeared		
			speak your query for voice option			
TC_M2_02	To verify tapping on product	URL should be open	1)Enter product name	product page will be appered	product page was appeared	Pass
	image navigates to product		2)Click on product image	with description, reviews and	with description, reviews and	
	page with description, reviews		3)View the product page	AddToCart button	AddToCart button	
	and AddToCart button					
TC Ma oa	To verify tapping on logo redi	LIDI should be open	a) Tan on logo	Home page will be appeared	Home page appeared with	Pass
TC_IVI2_03	To verify tapping on logo redi-	URL should be open		Home page will be appeared	Home page appeared with	Pd55
	rects to home page		2) view the page	with categories like toys, clothes	categories like toys, clothes	
				etc.	etc.	

Test Cases

3. Test Case for Add to Cart:

TestCase ID	TestCase Objective	Pre-Requisite	Step Data	Expected Result	Actual Result	Status
	·	·				
TC_M3_01	To verify AddToCart button is	URL should be open	1)Click on search option	Shopping Cart Page will	Shopping Cart Page was	Pass
	functioning properly		2)Enter product name	be displayed	displayed	
			3)Click on image of the product			
			4)Click on AddToCart button			
TC_M3_02	To verify if the user increase	1)URL should be open	1)Click on Cart Icon	Quantity of item is updated		Pass
	or decrease the number of	2)User should be registered	2)Click on quantity	will be displayed	has been displayed	
	items then the changes should	3)User should have logged in	3)Select the number from drop			
	be reflected as per quantities		down list			
TC_M3_03	To verify when the user add	1)URL should be open	1)Click on search option	Total price of all the items	Total price of all the items	pass
	items to the cart, then the cart	2)User should be registered	2)Enter product name	will be displayed on the	has been displayed on the	
	should display total price of all	3)User should have logged in	3)Click on image of the product	shopping cart page	shopping cart page	
	items on shopping cart page.		4)Click on AddToCart button			
			5)Click on GoToCart			

Test Cases

4. Test Case for Check Out:

TestCase ID	TestCase Objective	Pre-Requisite	Step Data	Expected Result	Actual Result	Status
TC_M4_01	To check if the user can choose	1)URL should be open	1) select the product and	order placed and transanction	order placed and transa-	Pass
	a payment method and complete	2)User should be registered	click on AddtoCart	twas successful	nction was successful	
	transaction successfully	3)User should be loggged in	2)select payment method			
			3)click on pay now			
			4)Confirm the payment			
TC_M4_02	To check if the user can apply any	1)URL should be open	1)Add products to cart	Total amount will be displayed	Total amount will be dis-	Pass
	discount or offers coupon on	2)User should be registered	2)Click on place order	after deducting discount	played after deducting	
	check out page	3)User should loggged in	3)Select payment method	amount	discount amount	
			4)Click ok pay now option			
			5)Enter coupon code			
			6)Click on Apply			
TC_M4_03	To check if user can view total	1)URL should be open	1)Click on Cart Icon	Total bill, delivery date and	Total bill, delivery date	Pass
	bill, delivery date and shipping	2)User should be registered	2)Click on PlaceOrder and	shipping options will be appe-	and shipping options will	
	options on checkout page	3)User should be logged in	select payment method	ared on CheckOut page	be appeared on CheckOut	
			3) Click on PayNow option		page	
			4)View the CheckOut page			

Test Closure

S.NO	Test Scenario	Total test cases	Test cases executed	Test case pending
1	Test Scenario for Log In	4	4	0
2	Test Scenario for Home Page	4	4	0
3	Test Scenario for Add to Cart	4	4	0
4	Test Scenario for Check Out	4	4	0

Test Summary Report

Test summary report

- Test summary report is documented with a detail account of over all test results and defects and reported to the relevant stake holders.
- We have executed all types of testing on Shopping module and also we have conducted
- **Exploratory testing**: Testers explored the software with different scenarios, inputs and identified bugs and issues with out using pre-written test cases.
- End to End Testing: We performed end to end testing on shopping module and validated the entire functionality is working according to users requirement.

Levels of Testing

Basic levels of testing performed on shopping module as follows:

Unit Testing:

- Each and every component of a Shopping module is to ensure that they work as expected.
- Test cases has been covered for each functionality of the module such as adding items to cart, check out and applying discounts.

Integration testing:

In this testing we have combined individual units and tested to verify if they are working as intended when they are integrated.

- We tested it through different types of approaches:
- Top-down
- Bottom-up
- Big bang

System Testing

System Testing:

 System testing is performed on Shopping module by using following kinds of testing:

Functionality Testing:

- We performed functionality testing to check whether the shopping module meets the specified requirements and works as expected.
- It covers various scenarios such as adding, removing, and updating items in the cart, applying coupons and discounts, choosing payment and delivery options, placing and canceling orders.

Usability testing:

- We performed usability testing to evaluate how easy and user-friendly the shopping module is for the customers.
- It involves testing the design, navigation, content, feedback, and error messages of the shopping module.
- We have checked whether the shopping module is accessible and compatible with different browsers, devices and screen sizes.

System Testing

Security Testing:

- We performed security testing to ensure that the shopping module is safe and secure from unauthorized access and data breaches.
- It involves testing the encryption, authentication, authorization, and validation of the Shopping module.

Performance Testing:

- We performed security testing to check how well the shopping module performs under different load and stress conditions.
- It involves testing the speed, scalability, reliability, and resource consumption of the shopping module.
- We have also checked whether the shopping module can handle peak traffic, concurrent users, and large data volumes.

UAT Testing

User Acceptance Testing(UAT): UAT was done in presence of client. We performed Alpha testing followed by Beta testing.

Alpha Testing:

In Alpha testing the developer checked the application and identified the bugs and issues and fixed them immediately.

Beta Testing:

The client has performed the Beta testing in real environment and did not find any issue. This testing was the last phase of testing usually performed before releasing the product officially.

Deployment

- Deployment is the final phase of SDLC where the application puts into production.
- After the product is tested by the project team and the product passes each testing phase then the product is ready to go live.
- Thus, the product is ready for use in the real environment by all the product's end-users.

Maintenance

- Maintenance phase of SDLC occurs after the software has been placed into operation.
- Maintenance of software application includes bug fixing, enhancements, adaptation to changing environment, performance optimization, documentation and user support.
- Whenever changes or updates are made during the maintenance phase, regression testing is performed to ensure that existing functionality is not adversely affected by the modifications.