Manual Testing Project

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Introduction to project

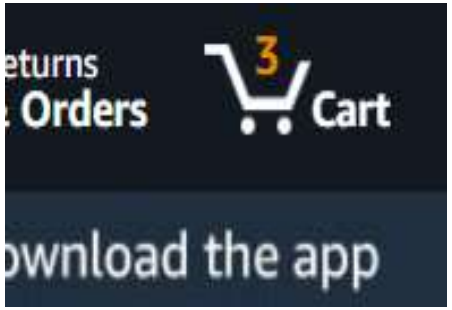
- **Domain Name:-Amazon**
- **Module Name:- Shopping Page**
- **Test scenarios:- 1) “Add to cart”**
- **2) “Shopping cart”**
- **3) “Wishlist”**
- In this project I have tried to cover all the aspects of testing for Module- Shopping page of Amazon.
- Manual testing was carried out on this module. Test scenarios and Test cases were build accordingly.
- Actual result and status for this Test cases were noted down.

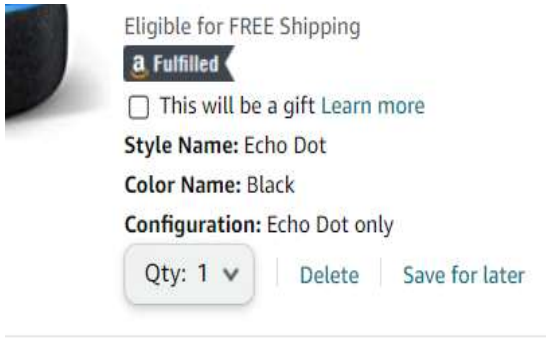
Phases for Shopping page

- **1) Requirements Phase for shopping page were as follows:**
- Cart should be easily visible to random user. So, cart symbol should be at top right of the navigation bar.
- It should display the quantity of product already present in cart
- "Wishlist", "Add to Cart", Shopping cart, must be interfaced properly.
- Shopping cart should be able to redirect user to payment page.
- Customer should be satisfied with all the functional available on shopping page.
- It should work fine without any error.

Phases for Shopping page

- **2) Design Phase:**
- In this phase the Shopping Page was designed with a simple architecture design so that its user friendly.
- The first is the navigational cart that users will see as they explore and shop. It is usually an icon that can be found in the navigation bar, showing the number of items it holds.
- Since users will be seeing this icon in pretty much all screens of the platform, we wanted it to be easily found. It is important that we make it easy to spot, but make it fit in with the rest of the navigation design so it was fitted in right top.
- The shopping cart page is crucial, because it needs to offer a lot of information to users in an organized way, so that it's not overwhelming so we designed it to give basic information for each and every product that will be present in it.
- It had buttons like "**Save for later**", "**Delete**", "**Checkout**".





Phases for Shopping page

- **3)Development Phase for Shopping page**:
- As the regards it is considered to use “Agile Methodology “for E-Commerce website that came up in 2008.
- So according to this methodology the work for Shopping page is carried on for the development of it.
- The code was built according to SRS document. And it ended with output Built Was Ready

Phases for Shopping page

- **4)Testing Phase for Shopping Page**:
- In this phase the testing is done by Tester on the Built that was output of Development phase which acts as an input for Testing Phase.
- In this phase all the components of Software are tested it consists of the **STLC** life cycle
- **STLC** life cycle means Software life cycle
- It consist of following stages
- i) Requirement & Analysis
- ii) Test Plan
- iii) Test case Development
- iv) Test environmental setup
- v) Test Execution
- vi) Test Closure

STLC life cycle

- **I) Requirements & Analysis:**
- In this stage the built was already available, so we decided on focus area which was adding product to cart using “Add to Cart “Button, then checking the shopping cart page, And also the Wishlist of shopping page.
- We decided to check each of the functionalities present in this Shopping Page module.
- Then we priorities the sub modules depending on their severities.
- Also the QA interacted with various stake holder to get the requirements and understand it with clarity.

STLC life cycle

- **II) Test Plan:**
- In this phase the roles where estimated to each and every person regarding testing as follows

Members	Roles
Test Manager	i) Monitors and contacts team lead. ii) Test strategies iii) Level of testing iv) Approval of test plan.
Test Lead	i) Test plan creation ii) Work distribution iii) Technically leads team
Test Engineer	i) Create test scenarios ii) Design, creation of test cases iii) Defect report iv) Tracking defect till closure
Automotive Architecture	i) Plans for test automation
Automation Engineer	i) Script and creation for automation ii) Maintaining scripts for changes

STLC life cycle

- **III) Test cases Development:**

In this stage we clarify Test Overview for Shopping cart. Test data was created for Shopping cart. Module of shopping cart contained test scenarios as follows: -

1) Test scenario on “ADD to Cart” Functionality.
2) Test scenario on “Shopping Cart” page.
3) Test scenario on “Wishlist” page.

- We applied several Test Designing techniques while creating Test Cases
- *** Equivalence Class Partition * Boundary Value Analysis**
- *** Decision Table Testing * State Transition Testing**

STLC life cycle

- **IV) Test Environmental setup:**
- Environment was setup for Shopping page module. The Shopping page module was test on:
- **Windows - Chrome, Edge, Firefox
- **Mac Os- Safari Browser
- **Android mobile Os- Chrome, Google
- ** iPhone mobile Os – Safari
- ** Nokia mobile Os- Windows
- For debugging tools used were Jira, cucumber Also tools like Excel, word file were used.

STLC life cycle

- **V) Test Execution:**
- Test cases were executed according to Test scenarios:
- 1) Test scenarios for Add to cart:

TEST CASE ID	TEST CASE OBJECTIVE	PRE-REQUISITE	STEP DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS
TC1_M1_1	To check whether we can add product from Featured section to cart	1) Website should be open	1) Click on Featured product banner on Home Page 2) Click on Add to cart option. 3) Click on Shopping cart to cross check that product is added to cart	Pop up Message "Added to Cart"	Pop up Message "Added to Cart" Pop up Message " Not Added to cart"	**PASS** **or** **FAIL**
TC1_M1_2	To check wheather product can be added to cart from product comparision page	1) Website should be open	1) Click on search option 2) Visit the product Comparision Page 3) Select the product 4) Click on Add to Cart Button 5) Click on Shopping cart to cross check that product is added to cart	Pop up Message "Added to Cart"	Pop up Message "Added to Cart" Pop up Message " Not Added to cart"	**PASS** **or** **FAIL**
TC1_M1_3	To check if we can add product to cart while website indication is out of stock	1) Website should be open	1)click on search option 2) click on product which is out of stock currently 3) check whether we can add that product to cart	Pop up Message " currently out of stock"	Pop up Message "currently out of stock" Pop up Message " Added to cart"	**PASS** **or** **FAIL**

STLC Life cycle

- 2) Test scenarios for shopping cart:

TEST CASE ID	TEST CASE OBJECTIVE	PRE-REQUISITE	STEP DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS
TC1_M1_1	Check wheater shopping cart shows the exact item is added that we searched	1) Website should be open	1) Click on search option 2) Click on the Product 3) Click on Add to cart button 4) Open Shopping cart page 5)Check wheather the product added to shopping cart is same as selected	Product added to shopping cart should be same as Product selected	Product added to shopping cart is same as Product selected Product added to shopping cart is not same as Product selected	**Pass** **Fail**
TC1_M1_2	Check wheater we can select all the items present in shopping cart	1) Website should be open	1) Click on search option 2) Click on the 2 Products 3) Click on Add to cart button 4) Open Shopping cart page 5)Check wheather we can select both products at a time	Check box of both the product should be ticked and Subtotal of both the product are shown	Check box of both the product is ticked and Subtotal of both the product are shown Check box of both the product is not ticked and Subtotal of both the product are not shown	**Pass** **Fail**
TC1_M1_3	Check wheather it has deselect all and deselect one by one option	1) Website should be open	1) Click on search option 2) Click on the 2 or more Products 3) Click on Add to cart button 4) Open Shopping cart page 5)Check whether we can deselect products at a time or one by one	Check box of all the product should be deselected and Subtotal of all the selected product are shown	Check box of all the product is deselected and Subtotal of all the selected product are shown Check box of all the product is selected and Subtotal of all the selected product are shown	**Pass** **Fail**

STLC life cycle

- **VI) Test closure:**

Sr.no	Test Scenario	Total test cases	Test cases executed	Test case pending
1	Test scenario for “Add to cart”	09	09	0
2	Test scenario for “Shopping cart” page	33	33	0
3	Test scenario for “Wishlist”	10	10	0

STLC life cycle

- **Test Summary report:**
- We have executed all the testing on Shopping page, to get better coverage we also conducted
- Exploratory Testing – Using our expertise we performed Exploratory Testing, apart from the normal execution of the Test cases.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.
- Shopping page went through Basic levels of testing such as:

1) Unit Level Testing
2) Integration Testing
3) System Level Testing
4) User Acceptance Testing

STLC lifecycle

- **Unit Testing**
- We have tested each module of the shopping page individually. As the modules were built up testing was carried out simultaneously, tracking out each and every kind of input and checking the corresponding output until module is working correctly
- The functionality of the modules was also tested as separate units. Each of the three functionalities were tested as separate units. In module all the functionalities were tested in isolation.

STLC lifecycle

- **Integration testing:**
- In integration testing a system consisting of different modules is tested for problems arising from component interaction
- Firstly, a minimum configuration must be integrated and tested.
- So, we tested each and every functionality of Shopping page module so that each of them are interfaced with each other such as
- “Add to cart” → “Wishlist” → “Shopping cart”
- We tested it with all approaches

1) Bottom up Approach
2) Top down approach
3) Critical part first

STLC life cycle

- **System testing**
  - In non-funtional testing we carried out performance testing Which included

i) Load testing: we gave more than capability load to Shopping page for short amount of time

ii) Stress testing: we gave more amount of load to Shopping page for long period of time

iii) Endurance testing: we gave more load to Shopping page until the page was crashed

iv) This lead to approach for better load handling for Shopping page.

STLC Life cycle

- **User Acceptance Testing**
- This testing was done in the presence of client itself. At first we did Alpha testing
- **Alpha testing:** Our developer checked the application in presence of client itself. The errors where seen and recorded by developer and were immediately fixed by him. The environment for testing was in control of developer itself. This testing was performed after System testing itself.
- **Beta testing:** Client also checked the application in his environment itself , it was in his control . He didn’t found any error in it. This testing was performed after Alpha testing.
- Hence, this is complete closure report for “Shopping Page”

Phase for Shopping page

- **Deployment:**
- The deployment phase is the final phase of the software development life cycle (SDLC) and puts the application into production.
- After the project team tests the product and the product passes each testing phase, the product is ready to go live.

Phase for shopping page

- **Maintenance Phase:**
- The maintenance phase of the SDLC occurs after the product is in full operation.
- Maintenance of software can include software upgrades, repairs, and fixes of the software if it breaks.
- Software applications often need to be upgraded or integrated with new systems the customer deploys.

Thank you!