

Test Strategy Document

AMAZON APPLICATION

Document Control:

Document Details:

Title	Test strategy document for Amazon Application
Version	13.20.1
Date	13 th 2021
File Name	Test Strategy-Amazon
File Location	Document/ Test Strategy-Amazon
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1.Scope and overview:

Scope:

This system allows the customer's to maintain their cart for add or remove the product over the internet. The customer can purchase any product from the product page. This will include functional and non functional requirement .

Functional Requirement:

- Secure registration and profile management facilities for Customers
- Adequate searching mechanisms for easy and quick access to particular products and services.
- Creating a Shopping cart so that customers can shop 'n' no. of items and checkout finally with the entire shopping carts. Customers can add or delete items in the cart.
- Maintaining database of regular customers of different needs.
- Shop employees are responsible for internal affairs like processing orders, assure home delivery, getting customer's delivery-time feedback, updating order's status and answering client's queries online.
- Feedback mechanism, so that customers can give feedback for the product or service which they have purchased. Also facility rating of individual products by relevant customers.
- Adequate payment mechanism and gateway for all popular credit cards, cheques and other relevant payment options, as available from time to time.

Non Functional Requirement:

- Secure access of confidential data (user's details).
- 24 X 7 availability
- **Performance:**

The performance depends on hardware specification

- **Reliability:**

The system is available during online time only .

Overview:

This system provides an easy solution for customers to buy the product without going to the shop and also to shop owner to sale the product. This proposed system can be used by any naïve users and it does not require any educational level, experience or technical expertise in computer field but it will be of good use if user has the good knowledge of how to operate a computer.

2. Test Approach:

- Test levels
- Test types
- Roles and responsibilities
- Environment requirements

3. Test Levels:

Levels of testing such as unit testing, integration testing, system testing and user acceptance testing should be used while developing an application.

4. Test Types:

For developing this application we need to perform some testing for better quality of a software or a product. The type testing used for this application includes,

a) SMOKE TESTING

- This testing was done whenever a Build is received (deployed into Testenvironment) for Testing to make sure the major functionalities are working fine, Build can be accepted and Testing can start.

b) SYSTEM INTEGRATION TESTING

- This is the Testing performed on the Application under test, to verify the entire application works as per the requirements.
- Critical Business scenarios were tested to make sure important functionalities in the application works as intended without any errors.

c) RETESTING TESTING

- Re-testing is executing a previously failed test against new software to check if the problem is resolved. After a defect has been fixed, re-testing is performed to check the scenario under the same environmental conditions.
- Retesting ensures that the issue has been fixed and is working as expected.
- In some cases the entire module is required to be re-tested to ensure the quality of the module.

d) SANITY TESTING

- Sanity testing is done to check the bugs have been fixed after the build.
- Sanity tests help to avoid wasting time and cost involved in testing if the build is failed. Tester should reject the build upon build failure.

e) COMPONENT TESTING

- Component testing is a software testing method where “units”—the individual components of software—are tested. Developers write unit tests for their code to make sure that the code works correctly. This helps to detect and protect against bugs in the future.

5. Roles and Responsibilities

Role	Responsibilities
Project Manger	AnuMeha mam
Project Lead	Surya
QA	Aarthi,Surya,Swetha,Tamil

6. Environment requirements:

Software Environment

- Operating System: Windows7 Ultimate which supports networking.
- JAVA development toolkit. Hardware Interface:

Hardware requirements

- Processor: Dual Core
- RAM:2 GB
- Hard Disk:320 GB

7. Testing tools:

Test Automation Tools

- Selenium
- TestNG
- Test management tools-Jira

8. Industry standards to follow:

- IEEE- **Standard** for Software **Test** Documentation: This documentation should be follow during developing high quality software. IEEE series defines an internationally-agreed set of standards for software testing of software testing standards.
- The main purpose of the IEEE series is to provide such guidelines that can be used by any organization when performing any form of software testing.They should follow some documents that documents should provide requirements, specifications, guidelines, or characteristics that can be used consistently to ensure that materials, products, processes, and services are fit for their purpose.

9. Test deliverables:

Before Testing Phase	Test plan documents. Test case execution documents.
During Testing Phase	Test Data, Requirement Traceability matrix
After Testing Phase	Test closure report, Test Metrics

These are the documents we have created before starting our testing .

Test Scenario For Amazon Application

Test scenario ID	Test Objective/Test scenarios
TS_amazon_001	Validate the "Personal Information" feature as a new user
TS_amazon_002	Validate Email_id and phone number fileds
TS_amazon_003	Validate already existing users username and password
TS_amazon_004	Checking for product page availablilty
TS_amazon_005	Checking the product page,that user can select the desired attribute of the product.
TS_amazon_006	Searching for the product by their names
TS_amazon_007	Check the product availability,product price and product descriptions
TS_amazon_008	Selecting the product and adding product to the cart.

TS_amazon_009	Selecting the Payment button for buying the product
TS_amazon_0010	Verifying the mode of payment.
TS_amazon_0011	Customers Giving the reviews and feedback of the products.
TS_amazon_0012	Check the modules are present while opening the browser

Test case(Before starting our testing, we have created our test case documents for amazon)

Test case ID	Test Case
TC_newuser_01	Valid Username
	Valid Password
	Valid Email_id
	Valid Phone_No
TC_newuser_02	Valid Username
	Valid Password
	Invalid Email_id
	Valid Phone_No
TC_newuser_03	check the phone number fields
TC_newuser_04	To chech the email_id field
TC_existinguser_05	Valid Username
	Valid Password
TC_existinguser_06	Invalid Username
	Invalid Password
TC_existinguser_07	Valid Username
	Invalid Password
TC_existinguser_08	Invalid Username
	Valid Password

TC_product_09	Verify the product page is visible to
	the user or not
TC_product_10	Verify the product colour ,size and
	brand are clearly mentioned
TC_search_11	Verify that search functionality field is available
	in the Screen od page of the application
TC_search_12	Verify that the search functionality is able to do
	search according to the entered text in the search
	field while typing the text.
TC_search_13	Verify that the product available or not and check
	whether the product price and description is
	available on that particular product
TC_cart_14	Verify that user can add any number of item to
	the shopping cart functionality
TC_cart_15	Check for price update when the user add or
	remove a new item to/from the cart
TC_payment_16	Check whether the procced to pay option
	available or not and to click
TC_payment_17	To select the payment option
TC_feedback_18	To verify the rating given by customer
TC_feedback_19	To check whether user can write review
	for the product
TC_feedback_20	To verify whether user can support review by
	clicking the helpful button

10. Testing metrics:

Software testing metrics - Improves the efficiency and effectiveness of a **software testing** process

Some of these QA metrics examples are:

- Number of **tests** in a certain time period = Number of **tests** run/Total time.
- Test design efficiency = Number of **tests** designed/Total time.
- Test review efficiency = Number of **tests** reviewed/Total time.
- Number of bugs per test = Total number of defects/Total number of **tests**.

11.Requirement Traceability Matrix:

Amazon(BRD,FSD,TEST STRATEGY,RTM) Modified - Excel										
Tell me what you want to do										
Sign in										
Share										
D31										
Sample Requirements Traceability Matrix For Amazon.										
Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo
Module Name	Module Name	Module Name	Module Name	Module Name	Module Name	Module Name	Module Name	Module Name	Module Name	Module Name
Release version	Release version	Release version	Release version	Release version	Release version	Release version	Release version	Release version	Release version	Release version
Pre-Condition	Proper Internet connection									
Test Environment	Windows, OS, Android chrome									
Dependencies	Internet connection									
Test Priority	High									

12. Risk and mitigation

- Use secure passwords
- Payment Security
- Privacy issues
- System reliability

13. Reporting tool:

JIRA will be the reporting tool for this project.

14 Test summary:

The test strategy document is created for Amazon as per the document content. It needs to be reviewed for sign-off by all entities involved in project management, business team, development team, and system administration (or environment management) team

15. Approvals:

The following people are required to approve the Test Strategy

Approved By Role	Approved By Name
Project Coordinator	Anu Meha