

# Test Strategy Document

## AMAZON APPLICATION

## Document Control:

### Document Details:

Title	Test strategy document for Amazon Application
Version	13.20.1
Date	13 <sup>th</sup> 2021
File Name	Test Strategy-Amazon
File Location	Document/ Test Strategy-Amazon
Author	TEAM AMAZON
Contributor	Aarthi,Surya,Swetha,TamilSelvan

## Contents

1. Scope and overview .....	4
2. Test Approach .....	5
3. Test Levels .....	5
4. Test Types .....	5
5. Roles and Responsibilities.....	7
6. Environment requirements .....	7
7. Testing tools .....	8
8. Industry standards to follow.....	8
9. Test deliverables .....	8
10. Testing metrics .....	11
11. Requirement Traceability Matrix .....	11

12. Risk and mitigation.....	12
13. Reporting tool .....	13
14 Test summary.....	13
15. Approvals.....	13

# 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 requirements.

## 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 sell 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 Test environment) 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) UNIT TESTING

- Unit 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	Project managers play the lead role in planning, executing, monitoring, controlling and closing projects.
Project Lead	A project leader is a professional who leads people and makes sure a project is carried through.
QA	Reviewing quality specifications and technical design documents to provide timely and meaningful feedback.
Customer	Customer is role is to registering to the site, browsing site, placing order, making payments.
Administrator	They verify and manage the user details, provide rules for transaction, take care of security issues during transaction, they manage all user , product and their order

## 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

- Tricentis Tosca
- HP (Now Micro Focus) Unified Functional **Testing** (UFT)
- IBM Rational Functional Tester.

### Bug tracking tools

- Bugzilla.
- Mantis Bug Tracker.
- The Bug Genie.
- Asana.

## 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:

- Test scenario
- Test cases and test data
- RTM
- Test summary report
- Test closure report



## Test Scenario For Amazon Application

Validate the "Personal Information" feature as a new user
Validate the "Username and Password" feature for the new user
Validate already existing users username and password
Checking for product page availability
Checking the product page, that user can select the desired attribute of the product.
Searching for the product by their names
Check the product availability, product price and product descriptions
Selecting the product and adding product to the cart.
Selecting the Payment option for buying the product
After Payment transaction receipt will be received
Customers Giving the reviews and feedback of the products.

### Test case:

Test case ID	Test Case
TC_newuser_01	Valid Username
	Valid Password
	Valid Email_id
	Valid Phone_No
TC_newuser_02	Valid Username
	Invalid Password
TC_existinguser_03	Valid Username
	Valid Password
TC_existinguser_04	Invalid Username
	Invalid Password
TC_product_05	Verify the product page is visible to
	the user or not
TC_product_06	Verify the product colour, size and
	brand are clearly mentioned

TC_search_07	Verify that search functionality field is available in the Screen od page of the application
TC_search_08	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_09	Verify that the product available or not and check whether the product price and description is available on that particular product
TC_cart_10	Verify that user can add any number of item to the shopping cart functionality
TC_cart_11	Check for price update when the user add or remove a new item to/from the cart
TC_payment_12	Check whether the procced to pay option available or not and to click
TC_payment_13	To select the payment option
Tc_payment_14	Check whether the card number CCV and expiry date are correct or not
TC_feedback_15	To verify the rating given by customer
TC_feedback_16	To check whether user can write review for the product
TC_feedback_17	To verify whether user can support review by clicking the helpful button
TC_browser_18	To verify the modules are shown in the browser

# 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) All Module - Excel

FileHomeInsertPage LayoutFormulasDataReviewViewHelp

Tell me what you want to do

CutCopyFormat PainterClipboardFontAlignNumberStylesCellsEditing

Calibri11Wrap TextGeneralConditional FormattingTableStylesInsertDelete FormatAutoSumFillSort & Find & Filter & Select

FontAlignNumberStylesCellsEditing

B		C		D		E		F		G		H		I		J		K		L		
Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	Company logo	
Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	Module Name :	Register,Product,Search,Add to cart,Payments,Feedback	
Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	Release version :	2.1	
Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	Pre-Condition	Proper internet connection	
Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	Test Environment	Windows, OS, Android chrome	
Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	Dependencies	internet connection	
Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	Test Priority	High	
BRD Section	FSD Section	Test scenario (TS)	Test case (TC)	Test steps	Test data	Expected Result	Actual Result	Status														
1- Registration Process	1.1- New users	TS_Amazon_001- Validate the "Personal Information" feature as a new user	TC_newuser_01	Valid Username Valid Password Valid Email_id Valid Phone_No Click on the Register button	Enter Username,Password Username:Surya36,Password:123@abc Email_id:surya15@gmail.com Phone_No:996675453	Successfully register	Successfully register	pass														
		TS_Amazon_002- Validate the "Username and Password" feature as a new user	TC_newuser_02	Valid Username Invalid Password Click on login button	Username:Surya36 Password:123@abc	Unsuccessful	Unsuccessful	pass														
	1.2- Existing users	TS_Amazon_003- Validating the already existing users username and password	TC_newuser_03	Valid Username Valid Password Click on login button	Username:Surya36 Password:123ABC@	Successfully login	Successful	pass														
2- Product Page	TS_Amazon_004-Checking for product page availability		TC_product_04	Verify the product page is visible to the user or not	Go to the main page Check product page	Product image,Product Title	Successful	Successful	pass													
	TS_Amazon_005-Checking the product page that user can select the desired attribute of the product like size,colour etc		TC_product_05	Verify the product colour, size and brand are clearly mentioned	Go to the product page Click on the product Check the colour,size,brand Some brands are missing	Color:All colour available Size:All size is available Brand:Some brands are missing	Unsuccessful	Unsuccessful	failed													
3- Searching process	3.1 Search by name	TS_Amazon_006- Searching for the product by their names	TC_search_06	Verify that search functionality field is available in the screen of page of the application	Go to the Search field Find search icon	Phone Redmi Note8 Pro	Successful	Successful	pass													
			TC_search_07	Verify that the search functionality is able to do search according to the entered text in the search field while typing the text.	Go to the Search field Typing product name as "Clo. It should display like "Clothing,Clothes for men,Clothes for women etc..."	Unsuccessful	Unsuccessful	pass														
		4- Add to cart	TS_Amazon_007- Check the product availability, product price and product description	TC_search_08	Verify that the product available or not and whether the product price and description is available on that particular product	Go to the product Click on the product Checking the product	Product description is not available	Unsuccessful	Unsuccessful	pass												
TS_Amazon_008- Selecting the product and adding product to the cart.	TC_cart_09			Verify that user can add any number of item to the Add to Cart. Add product count 10	Go to the Add to Cart. Add product count 10	Successful	Successful	pass														

Ready

BRD FSD Test scenarios Test case execution Traceability matrix

10:21 PM 22-06-2021

Amazon(BRD,FSD,TEST STRATEGY,RIM) Modified - Excel

	B	C	D	E	F	G	H	I	J	K
45										
46	5 Add to cart		TS_Amazon_067-Check the product availability,product price and product description	TC_search_09	Verify that the product available or not and whether the product price and description is available on that particular product	Go to the product Click on the product	Product description is available	Successful	Successful	pass
47						Checking the product				
48										
49			TS_Amazon_068-Selecting the product and adding product to the cart	TC_cart_10	Verify that user can add any number of item to the shopping cart functionality	Go to the Add to Cart,Add item	product count 10	Successful	Successful	pass
50										
51										
52										
53										
54										
55										
56	6 Payments		TS_Amazon_069-Selecting the Payment option for buying the product	TC_payment_12	Check whether the proceed to pay option available or not and to click	Sign to amazon Click the product and add to cart	product add to cart button	Successful	Successful	pass
57	5.1 Payment by Credit card					Click proceed to pay	product to pay button			
58	5.2 Payment by Debit card									
59										
60										
61										
62			TS_Amazon_069-After Payment transaction receipt will be received	TC_payment_13	To select the payment option	Click on the payment option	credit and debit card option should be available	Successful	Successful	pass
63						Click the payment mode	card number 344455555555	Successful	Successful	pass
64						Click on the payment option	card number 344455555555	Successful	Successful	pass
65						Click the payment mode	CVV and expiry date	Successful	Successful	pass
66						Enter the card number, CVV, Expiry date	Expiry date 01-08-2023	Successful	Successful	pass
67	7 Feedback		TS_Amazon_0612-Customer Giving the reviews, rating based on the customer satisfaction after using the product	TC_feedback_15	To verify the rating given by customer	Click on the ratings view the star rating given by customer	click product rating button	Successful	Successful	pass
68	6.1 Ratings by the user									
69	6.2 Reviews by the user									
70										
71										
72										
73										
74										
75			TS_Amazon_0612-Customer can view the modules while opening the browser	TC_browser_18	To verify the modules are shown	Click a star button,view the customer feedback	Star should be present	Successful	Successful	pass
76						checking the modules	All the modules and menu bar should be present	Successful	Successful	pass
77										
78										
79										
80										
81										
82										
83										
84										
85										
86										
87										
88										
89										
90										
91										

Ready BRD FSD Test scenarios Test case execution Traceability matrix

05:12 PM 14-07-2021

## 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