Test Strategy Document

AMAZON APPLICATION

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Contents

1. Scope and overview	4
2. Test Approach	
3. Test Levels	5
4. Test Types	5
5. Roles and Responsibilities	7
6. Environment requirements	
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 includes 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 anyerrors.

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 helps 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	Project managers play the lead role in planning, executing, monitoring,
Manger	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: Windows 7 Ultimate which supports networking.
- JAVA development toolkit. Hardware Interface:

Hardware requirements

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

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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 "Username and	Password" feature for the new user
Validate already existing users username and password	

Validate the "Personal Information" feature as a new user

Checking for product page availablilty

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 Usename
	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
re_search_or	in the Screen od page of the application
	in the sereen ou 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
	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
10_0010_11	remove a new item to/from the cart
	Temove a new item to morn the eart
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
	cheking the helpful button
TC_browser_18	To verify the modules are shown in the browser

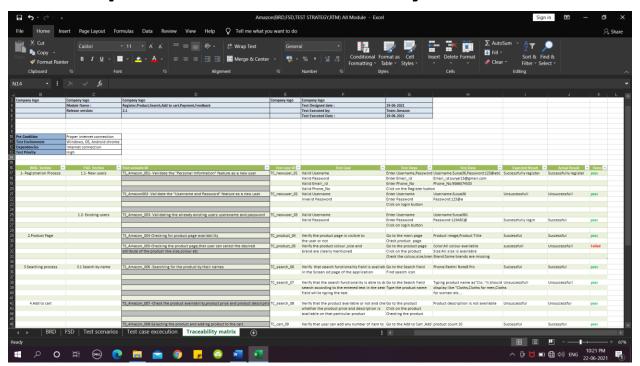
10. Testing metrics:

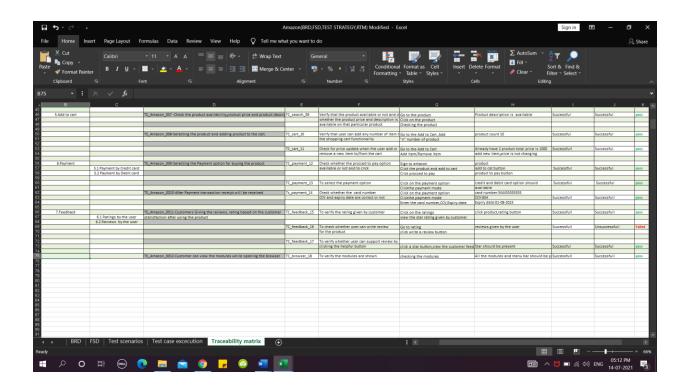
Software testing metrics - Improves the efficiency and effectiveness of a **software testing** process

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:





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