

**ANNA UNIVERSITY REGIONAL CAMPUS - TIRUNELVELI**  
**TIRUNELVELI - 627007.**



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## INDEX

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# Develop the test plan for testing an e-commerce web/mobile application (www.amazon.in)

## AIM

To develop the test plan for testing an e-commerce web / mobile application (www.amazon.in).

**Test Plan:** www.amazon.in E-commerce Application

## 1. Introduction

•**Purpose:** To ensure the quality, reliability, and performance of the www.amazon.in e-commerce web and mobile application.

•**Scope:** This test plan covers both web and mobile versions of the application.

•**Testing Objectives:**

•Validate the functionality of the application.

•Ensure usability and user experience.

•Evaluate security and performance.

•Verify compatibility with various browsers and mobile devices.

•**References:** Requirements document, design specifications, user stories.

## 2. Test Strategy

•**Testing Approach:** A comprehensive testing approach combining functional and non-functional testing.

•**Test Environment:**

•**Web:** Latest versions of Chrome, Firefox, Safari, and Edge on Windows and macOS.

•**Mobile:** iOS (latest) and Android (latest) devices.

•**Test Data:**

•For user accounts: A set of predefined test accounts with various roles (admin, customer).

•For products: A variety of sample products for testing.

## 3. Test Phases

•**Unit Testing:** Test individual components and functions within the application.

•**Integration Testing:** Test the integration of components and modules.

•**System Testing:** Test the complete system to ensure it meets all requirements.

•**User Acceptance Testing (UAT):** Involve end-users to validate usability and functionality.



## 4. Test Scenarios

### •List of Test Scenarios:

- User registration and authentication.
- Product searching and browsing.
- Adding/removing items from the shopping cart.
- Payment processing.
- Order tracking and history.
- User reviews and ratings.
- Mobile-specific features (e.g., push notifications).

## 5. Test Cases

### •Detailed test cases for each scenario:

- Test ID.
- Description.
- Precondition.
- Steps to Reproduce.
- Expected Results.
- Actual Results.
- Pass/Fail status.

## 6. Test Execution

### •Test execution approach:

- Manual testing for functional and usability testing.
- Automation for regression testing.
- Testing schedule.
- Test environments.
- Roles and responsibilities of the testing team members.

## 7. Defect Management

### •Defect tracking tool: Use JIRA.

- Defect reporting and documentation process.
- Defect prioritization and severity criteria.

## 8. Test Deliverables

### •List of documents and artifacts:

- Test plan.
- Test cases.
- Test reports.





- Defect logs.

## 9. Risk Assessment

### •Identify potential risks:

- Data security.
- Scalability issues.
- Usability challenges.
- Mitigation strategies for identified risks.

## 10. Schedule

### Preparation (1 week)

- Develop test plan and cases.
- Set up environments.

### Testing (5 weeks)

- Unit, Integration, System.
- UAT (2 weeks).

### Automation (2 weeks)

### Closure (1 week)

- Documentation and approvals.

## 11. Exit Criteria

### •Conditions to conclude testing:

- 95% of test cases passed.
- All critical defects resolved.

## 12. Approvals

- Stakeholders for test plan review and approval: Project Manager, Development Lead, QA Lead.

## RESULT:

Thus the test plan for testing an e-commerce web / mobile application was developed successfully.



**Ex.no.:2**

**Date:**

## **Design the test cases for testing the E-Commerce Application**

### **AIM**

To design test case for testing the E-Commerce application

### **TEST CASE**

- Home page
- Search Functionality
- Product Details
- Cart Page
- Checkout, Payment Page
- My Order Page
- Customer Service Page



## HOME PAGE

| Test Case ID | Module Name | Test Scenario                   | Test Case   | Pre-requisites   | Test Data                                      | Step No. | Test Step                   | Expected Result  | Actual Result                                |
|--------------|-------------|---------------------------------|---|--|--|----------|-----------------------------|--|--|
| TC001        | Home Page   | Verify the details on Home page | Verify that home page is displayed after login or not.    | Browser should be installed<br>Internet connection should be present                             | Username-<br>Username<br>Password-<br>password | 1        | Open browser                | Browser should be opened   | Browser is opened                            |
|              |             |                                 |   |  |  | 2        | Open url                    | Ecommerce website should be opened   | Ecommerce website is opened                  |
|              |             |                                 |   |  |  | 3        | Enter username and password | user should be able to input username and password                         | Able to input username and password          |
|              |             |                                 |   |  |  | 4        | Click on login button       | Home page should be displayed after login                                  | Home page displayed after login              |
| TC002        | Home Page   | Verify the details on Home page | Verify that user name is displayed on home page or not    | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1        | Open browser                | Browser should be opened   | Browser is opened                            |
|              |             |                                 |   |  |  | 2        | Open url                    | Ecommerce website should be opened   | Ecommerce website is opened                  |
|              |             |                                 |   |  |  | 3        | Enter username and password | user should be able to input username and password                         | Able to input username and password          |
|              |             |                                 |   |  |  | 4        | Click on login button       | Home page should be displayed after login and user name should be          | Username displayed on home page after login  |
| TC003        | Home Page   | Verify the details on Home page | Verify that featured products are displayed on home page  | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1        | Open browser                | Browser should be opened   | Browser is opened                            |
|              |             |                                 |   |  |  | 2        | Open url                    | Ecommerce website should be opened   | Ecommerce website is opened                  |
|              |             |                                 |   |  |  | 3        | Enter username and password | user should be able to input username and password                         | Able to input username and password          |
|              |             |                                 |   |  |  | 4        | Click on login button       | Home page should be displayed after login and user name should be          | Username displayed on home page after login  |
| TC004        | Home Page   | Verify the details on Home page | Verify that Search Functionality is present on home page. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1        | Open browser                | Browser should be opened   | Browser is opened                            |
|              |             |                                 |   |  |  | 2        | Open url                    | Ecommerce website should be opened   | Ecommerce website is opened                  |
|              |             |                                 |   |  |  | 3        | Enter username and password | user should be able to input username and password                         | Able to input username and password          |
|              |             |                                 |   |  |  | 4        | Click on login button       | User should be logged in and Search functionality is present on home page. | Search functionality is present on home page |



|       |           |                                 |  |  |  |   |                                   |   |   |
|-------|-----------|---------------------------------|--|--|--|---|-----------------------------------|---|---|
| TC005 | Home Page | Verify the details on Home page | Verify the home page of application on different browsers. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                      | Browser should be opened  | Browser is opened                                 |
|       |           |                                 |  |  |  | 2 | Open url                          | Ecommerce website should be opened  | Ecommerce website is opened                       |
|       |           |                                 |  |  |  | 3 | Enter username and password       | user should be able to input username and password                                | Able to input username and password               |
|       |           |                                 |  |  |  | 4 | Click on login button             | User should be logged in and home page should be same on different browsers.      | Home page is same on different browsers.          |
| TC006 | Home Page | Verify the details on Home page | Verify the alignment on the home page                      | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                      | Browser should be opened  | Browser is opened                                 |
|       |           |                                 |  |  |  | 2 | Open url                          | Ecommerce website should be opened  | Ecommerce website is opened                       |
|       |           |                                 |  |  |  | 3 | Enter username and password       | user should be able to input username and password                                | Able to input username and password               |
|       |           |                                 |  |  |  | 4 | Click on login button             | User should be logged in and alignment of products on home page should be proper. | Alignment of products on home page is proper.     |
| TC007 | Home Page | Verify the details on Home page | Verify that products displayed on home page are clickable. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                      | Browser should be opened  | Browser is opened                                 |
|       |           |                                 |  |  |  | 2 | Open url                          | Ecommerce website should be opened  | Ecommerce website is opened                       |
|       |           |                                 |  |  |  | 3 | Enter username and password       | user should be able to input username and password                                | Able to input username and password               |
|       |           |                                 |  |  |  | 4 | Click on login button             | Home page should be displayed after login and user name should be                 | user name is displayed on home page               |
|       |           |                                 |  |  |  | 5 | Click on any product displayed on | User should be redirected to product specification page.                          | User is redirected to product specification page. |





## EARCH FUNCTIONALITY

| Test Case | Module Name    | Test Scenario                           | Test Case   | Pre-requisites   | Test Data                                    | Step No. | Test Step   | Expected Result  | Actual Result                                     |
|-----------|----------------|---|---|--|--|----------|---|--|---|
| TC001     | Product Search | Verify the product search functionality | Verify that search field accepts alphabets, numbers or symbols.                                     | Browser should be installed<br>Internet connection should be present<br>User should be logged in | Username<br>Username<br>Password<br>password | 1        | Open browser  | Browser should be opened   | Browser is opened                                 |
|           |                |   |   |  |  | 2        | Open url  | Ecommerce website should be opened   | Ecommerce website is opened                       |
|           |                |   |   |  |  | 3        | Enter username and password                                 | user should be able to input username and password                                       | Username and password are given                   |
|           |                |   |   |  |  | 4        | Click on login button                                       | Home page should be displayed after login  | Home page displayed after login                   |
|           |                |   |   |  |  | 5        | Click on search field.                                      | Search field should accept alphabets, numbers or symbols.                                | Search field accepts alphabets, numbers ,symbols. |
| TC002     | Product Search | Verify the product search functionality | Verify that after entering search text and clicking on search icon, the search should be performed. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1        | Open browser  | Browser should be opened   | Browser is opened                                 |
|           |                |   |   |  |  | 2        | Open url  | Ecommerce website should be opened   | Ecommerce website is opened                       |
|           |                |   |   |  |  | 3        | Enter username and password                                 | user should be able to input username and password                                       | Username and password are given as input.         |
|           |                |   |   |  |  | 4        | Click on login button                                       | Home page should be displayed after login and user name should be displayed on home page | User name is displayed on home page.              |
|           |                |   |   |  |  | 5        | Enter search text in search field and click on search icon. | Search should be performed according to search text provided by user.                    | Search is performed according to search text.     |



|       |                |   |  |  |  |  |  |   |   |   |  |
|-------|----------------|---|--|--|--|--|--|---|---|---|--|
| TC003 | Product Search | Verify the product search functionality | Verify that the search results should be as per the search query.                                    | Browser should be installed Internet connection should be present User should be logged in |  |  |  | 1 | Open browser  | Browser should be opened  | Browser is opened  |
|       |                |   |  |  |  |  |  | 2 | Open url  | Ecommerce website should be opened  | Ecommerce website is opened  |
|       |                |   |  |  |  |  |  | 3 | Enter username and password                                 | user should be able to input username and password  | Username and password are given                                      |
|       |                |   |  |  |  |  |  | 4 | Click on login button                                       | Home page should be displayed after login and user name should be displayed on home page          | user name is displayed on home page                                  |
|       |                |   |  |  |  |  |  | 5 | Enter search text in search field and click on search icon. | Search should be performed according to search text provided by user.                             | Search is performed according to search text provided.               |
| TC004 | Product Search | Verify the product search functionality | Verify that user should be able to search based on product name,brand name or product specification. | Browser should be installed Internet connection should be present User should be logged in |  |  |  | 1 | Open browser  | Browser should be opened  | Browser is opened  |
|       |                |   |  |  |  |  |  | 2 | Open url  | Ecommerce website should be opened  | Ecommerce website is opened  |
|       |                |   |  |  |  |  |  | 3 | Enter username and password                                 | user should be able to input username and password  | Username and password are given .                                    |
|       |                |   |  |  |  |  |  | 4 | Click on login button                                       | User should be logged in and Search functionality is present on home page.                        | Search functionality is present on home page                         |
|       |                |   |  |  |  |  |  | 5 | Enter search text in search field and click on search icon. | User should be able to perform search bases on product name, brand name or product specification. | Can search based on product name, brand name, product specification. |



|       |                |   |  |  |   |   |  |  |  |
|-------|----------------|---|--|--|---|---|--|--|--|
| TC005 | Product Search | Verify the product search functionality | Verify that filter should be present for filtering the search results bases on Brand, Price, Reviews or Ratings. | Browser should be installed Internet connection should be present User should be logged in |   |   |  |  |  |
|       |                |   |  |  | 1 | Open browser  | Browser should be opened   | Browser is opened                                  |  |
|       |                |   |  |  | 2 | Open url  | Ecommerce website should be opened   | Ecommerce website is opened                        |  |
|       |                |   |  |  | 3 | Enter username and password                                 | user should be able to input username and password   | Username and password are given                    |  |
|       |                |   |  |  | 4 | Click on login button                                       | User should be logged in and home page should be same on different browsers.   | Home page displayed after login                    |  |
| TC006 | Product Search | Verify the product search functionality | Verify that sorting options should be present on search results page.  | Browser should be installed Internet connection should be present User should be logged in | 5 | Enter search text in search field and click on search icon. | Search should be performed according to search text provided by user and filters should be present.                                | Filters are present to perform search.             |  |
|       |                |   |  |  | 1 | Open browser  | Browser should be opened   | Browser is opened                                  |  |
|       |                |   |  |  | 2 | Open url  | Ecommerce website should be opened   | Ecommerce website is opened                        |  |
|       |                |   |  |  | 3 | Enter username and password                                 | user should be able to input username and password   | Username and password are given as input.          |  |
|       |                |   |  |  | 4 | Click on login button                                       | User should be logged in and alignment of products on home page should be proper.  | Alignment of products on home page are proper.     |  |
|       |                |   |  |  | 5 | Enter search text in search field and click on search icon. | Search should be performed according to search text provided by user and sorting options should be present on search results page. | Sorting options is present on search results page. |  |



## CUSTOMER SERVICE PAGE

|       |                |   |  |  |  |   |   |  |  |
|-------|----------------|---|--|--|--|---|---|--|--|
| TC009 | Product Search | Verify the product search functionality | Verify that user should be perform search in different categories for example, Movies, Books, Grocery etc. | Browser should be installed Internet connection should be present User should be logged in |  | 1 | Open browser  | Browser should be opened   | Browser is opened                                |
|       |                |   |  |  |  | 2 | Open url  | Ecommerce website should be opened   | Ecommerce website is opened                      |
|       |                |   |  |  |  | 3 | Enter username and password                                 | user should be able to input username and password                                       | Username and password are given                  |
|       |                |   |  |  |  | 4 | Click on login button                                       | Home page should be displayed after login and user name should be displayed on home page | Home page displayed after login                  |
|       |                |   |  |  |  | 5 | Enter search text in search field and click on search icon. | Search should be performed in different categories such as movies, books, grocery etc.   | Search can be performed in different categories. |

| Test Case ID | Module Name           | Test Scenario                               | Test Case  | Pre-requisites   | Test Data                                      | Step No. | Test Step                              | Expected Result   | Actual Result                                     |
|--------------|-----------------------|---|--|--|--|----------|--|---|---|
| TC001        | Customer Service Page | Verify the details on Customer Service Page | Verify that customer service options should be present on the website.                           | Browser should be installed Internet connection should be present                          | Username-<br>Username<br>Password-<br>password | 1        | Open browser                           | Browser should be opened  | Browser is opened                                 |
|              |                       |   |  |  |  | 2        | Open url                               | Ecommerce website should be opened  | Ecommerce website is opened                       |
|              |                       |   |  |  |  | 3        | Enter username and password            | user should be able to input username and password  | Username and password are given                   |
|              |                       |   |  |  |  | 4        | Click on login button                  | Home page should be displayed after login   | Home page is displayed                            |
|              |                       |   |  |  |  | 5        | Click on contact customer care button. | Customer care page should be displayed.   | Customer care page is displayed.                  |
| TC002        | Customer Service Page | Verify the details on Customer Service Page | Verify that different modes of customer service such as Email, Chat or Call should be mentioned. | Browser should be installed Internet connection should be present User should be logged in |  | 1        | Open browser                           | Browser should be opened  | Browser is opened                                 |
|              |                       |   |  |  |  | 2        | Open url                               | Ecommerce website should be opened  | Ecommerce website is opened                       |
|              |                       |   |  |  |  | 3        | Enter username and password            | user should be able to input username and password  | Username and password are given as input.         |
|              |                       |   |  |  |  | 4        | Click on login button                  | Home page should be displayed after login and user name should be displayed on home page              | User name should be on home page.                 |
|              |                       |   |  |  |  | 5        | Click on contact customer care button. | Customer care page is displayed with different modes of customer service such as Email, chat or call. | Different modes of customer service is displayed. |





|       |                       |   |  |  |  |  |  |  |  |   |  |   |   |
|-------|-----------------------|---|--|--|--|--|--|--|--|---|--|---|---|
| TC003 | Customer Service Page | Verify the details on Customer Service Page | Verify that waiting time to connect to customer service should be displayed to user. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  |  |  |  |  | 1 | Open browser                           | Browser should be opened  | Browser is opened   |
|       |                       |   |  |  |  |  |  |  |  | 2 | Open url                               | Ecommerce website should be opened  | Ecommerce website is opened                               |
|       |                       |   |  |  |  |  |  |  |  | 3 | Enter username and password            | user should be able to input username and password  | Username and password are given                           |
|       |                       |   |  |  |  |  |  |  |  | 4 | Click on login button                  | Home page should be displayed after login and user name should be displayed on home page              | User name is displayed on home page                       |
|       |                       |   |  |  |  |  |  |  |  | 5 | Click on contact customer care button. | Customer care page is displayed with different modes of customer service such as Email, chat or call. | Different modes of customer service are displayed.        |
|       |                       |   |  |  |  |  |  |  |  | 6 | Select any mode of customer service.   | Waiting time is displayed for that customer service.  | Waiting time is displayed.                                |
| TC004 | Customer Service Page | Verify the details on Customer Service Page | Verify that customer service should be available in different languages.             | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  |  |  |  |  | 1 | Open browser                           | Browser should be opened  | Browser is opened   |
|       |                       |   |  |  |  |  |  |  |  | 2 | Open url                               | Ecommerce website should be opened  | Ecommerce website is opened                               |
|       |                       |   |  |  |  |  |  |  |  | 3 | Enter username and password            | user should be able to input username and password  | Username and password are given as input.                 |
|       |                       |   |  |  |  |  |  |  |  | 4 | Click on login button                  | User should be logged in and Search functionality is present on home page.                            | Search functionality is present on home page.             |
|       |                       |   |  |  |  |  |  |  |  | 5 | Click on contact customer care button. | Customer care page is displayed with different available languages.                                   | Different available languages is displayed.               |
| TC005 | Customer Service Page | Verify the details on Customer Service Page | Verify that the timings of customer service option should be displayed to user.      | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  |  |  |  |  | 1 | Open browser                           | Browser should be opened  | Browser is opened   |
|       |                       |   |  |  |  |  |  |  |  | 2 | Open url                               | Ecommerce website should be opened  | Ecommerce website is opened                               |
|       |                       |   |  |  |  |  |  |  |  | 3 | Enter username and password            | user should be able to input username and password  | Username and password are given                           |
|       |                       |   |  |  |  |  |  |  |  | 4 | Click on login button                  | User should be logged in and home page should be same on different browsers.                          | Home page should be same on different browsers.           |
|       |                       |   |  |  |  |  |  |  |  | 5 | Click on contact customer care button. | Customer care page is displayed with timings of different modes of customer care.                     | Timings of different modes of customer care is displayed. |



## **RESULT**

Thus the test case for testing E-commerce application was designed successfully.



**EX NO: 3**

**DATE:**

## **TEST THE E-COMMERCE APPLICATION AND REPORT THE DEFECTS IN IT**

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### **AIM:**

To test the e-commerce application and report the defects in it.

### **Test cases:**

- Product page
- Cart page
- Checkouts, payments page.
- My orders page



## PRODUCT DETAILS PAGE

| Test Case ID | Test Case ID    | Test Case ID                                     | Test Case ID   | Step No. | Test Step                                  | Expected Result  | Actual Result  | Status |
|--------------|-----------------|--|--|----------|--|--|--|--------|
| TC001        | Product Details | Verify the details on Product Specification page | Verify that images of product are displayed correctly. | 1        | Open browser                               | Browsers should be opened  | Browsers are opened  | Passed |
|              |                 |  |  | 2        | Open url                                   | E-commerce website should be opened  | E-commerce website is opened                                       | Passed |
|              |                 |  |  | 3        | Enter username and password                | User should be able to input username and password                                       | User is able to input username and password                        | Passed |
|              |                 |  |  | 4        | Click on login button                      | Home page should be displayed after login  | Homepage is displayed after login.                                 | Passed |
|              |                 |  |  | 5        | Click on a product displayed on home page. | The images of product should be displayed correctly.                                     | The images of the product are displayed correctly.                 | Passed |
| TC002        | Product Details | Verify the details on Product Specification page | Verify that price of product is displayed.             | 1        | Open browser                               | Browsers should be opened  | Browsers are opened  | Passed |
|              |                 |  |  | 2        | Open url                                   | E-commerce website should be opened  | E-commerce website is opened                                       | Passed |
|              |                 |  |  | 3        | Enter username and password                | User should be able to input username and password                                       | User is able to input username and password                        | Passed |
|              |                 |  |  | 4        | Click on login button                      | Home page should be displayed after login and user name should be displayed on home page | Homepage is displayed after login.                                 | Passed |
|              |                 |  |  | 5        | Click on a product displayed on home page. | The price of product should be displayed.  | The price of product is displayed                                  | Passed |
| TC003        | Product Details | Verify the details on Product Specification page | Verify that product reviews are mentioned.             | 1        | Open browser                               | Browsers should be opened  | Browsers are opened  | Passed |
|              |                 |  |  | 2        | Open url                                   | E-commerce website should be opened  | E-commerce website is opened                                       | Passed |
|              |                 |  |  | 3        | Enter username and password                | User should be able to input username and password                                       | User is able to input username and password                        | Passed |
|              |                 |  |  | 4        | Click on login button                      | Home page should be displayed after login and user name should be displayed on home page | Homepage is displayed after login.                                 | Passed |
|              |                 |  |  | 5        | Click on a product displayed on home page. | The price of product should be displayed.  | The price of product is displayed                                  | Passed |
| TC004        | Product Details | Verify the details on Product Specification page | Verify that product specifications are displayed.      | 1        | Open browser                               | Browsers should be opened  | Browsers are opened  | Passed |
|              |                 |  |  | 2        | Open url                                   | E-commerce website should be opened  | E-commerce website is opened                                       | Passed |
|              |                 |  |  | 3        | Enter username and password                | User should be able to input username and password                                       | User is able to input username and password                        | Passed |
|              |                 |  |  | 4        | Click on login button                      | User should be logged in and Search functionality is present on home page.               | User is logged in and search functionality is present on homepage. | Passed |
|              |                 |  |  | 5        | Click on a product displayed on home page. | Product specifications should be displayed.  | Product specification is displayed.                                | Passed |





|       |                 |  |   |  |  |   |   |  |  |        |
|-------|-----------------|--|---|--|--|---|---|--|--|--------|
| TC005 | Product Details | Verify the details on Product Specification page | Verify that information about IN-Stock/Out-Stock are displayed. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                                | Browser should be opened   | Browser is opened  | Passed |
|       |                 |  |   |  |  | 2 | Open url                                    | Ecommerce website should be opened   | Ecommerce website is opened                                    | Passed |
|       |                 |  |   |  |  | 3 | Enter username and password                 | user should be able to input username and password                                       | user is able to input username and password                    | Passed |
|       |                 |  |   |  |  | 4 | Click on login button                       | User should be logged in and home page should be same on different browsers.             | user is logged in and home page is same on different browsers. | Passed |
|       |                 |  |   |  |  | 5 | Click on a product displayed on home page.  | Stock information should be displayed.   | stock information is displayed.                                | Passed |
| TC006 | Product Details | Verify the details on Product Specification page | Verify that seller ratings should be displayed.                 | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                                | Browser should be opened   | Browser is opened  | Passed |
|       |                 |  |   |  |  | 2 | Open url                                    | Ecommerce website should be opened   | Ecommerce website is opened                                    | Passed |
|       |                 |  |   |  |  | 3 | Enter username and password                 | user should be able to input username and password                                       | user is able to input username and password                    | Passed |
|       |                 |  |   |  |  | 4 | Click on login button                       | User should be logged in and alignment of products on home page should be proper.        | user is logged in and alignment of products is proper.         | Passed |
|       |                 |  |   |  |  | 5 | Click on a product displayed on home page.  | The seller ratings should be displayed.  | seller ratings are displayed.                                  | Passed |
| TC007 | Product Details | Verify the details on Product Specification page | Verify that all the variations of product are displayed.        | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                                | Browser should be opened   | Browser is opened  | Passed |
|       |                 |  |   |  |  | 2 | Open url                                    | Ecommerce website should be opened   | Ecommerce website is opened                                    | Passed |
|       |                 |  |   |  |  | 3 | Enter username and password                 | user should be able to input username and password                                       | user is able to input username and password                    | Passed |
|       |                 |  |   |  |  | 4 | Click on login button                       | Home page should be displayed after login and user name should be displayed on home page | Homepage is displayed after login.                             | Passed |
|       |                 |  |   |  |  | 5 | Click on any product displayed on home page | User should be redirected to product specification page.                                 | user is redirected to product specification page.              | Passed |
|       |                 |  |   |  |  | 6 | Click on a product displayed on home page.  | All the variations of product should be displayed.                                       | All variations of the products are displayed.                  | Passed |



CART PAGE

| Test Case ID | Module Name | Test Scenario                   | Test Case   | Pre-requisites   | Test Data                          | Step No. | Test Step  | Expected Result  | Actual Result  | Status |
|--------------|-------------|---------------------------------|---|--|------------------------------------|----------|--|--|--|--------|
| TC001        | Cart Page   | Verify the details on Cart Page | Verify that when user clicks on add to cart, the product should be added to cart.   | Browser should be installed<br>Internet connection should be present                             | Username-<br>Password-<br>password | 1        | Open browser                                     | Browser should be opened   | Browser is opened  | passed |
|              |             |                                 |   |  |                                    | 2        | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.   | passed |
|              |             |                                 |   |  |                                    | 3        | Enter username and password                      | User should be able to input username and password                                       | user is able to input username and password                                | passed |
|              |             |                                 |   |  |                                    | 4        | Click on login button                            | Home page should be displayed after login  | Home page is displayed after login   | passed |
|              |             |                                 |   |  |                                    | 5        | Click on any product displayed on home page      | The product page should be displayed.  | The product page is displayed.   | passed |
|              |             |                                 |   |  |                                    | 6        | Click on add to cart for the product.            | The product should be added to cart.   | The product is added to cart.  | passed |
| TC002        | Cart Page   | Verify the details on Cart Page | Verify that user should be able to continue shopping after adding items to cart.    | Browser should be installed<br>Internet connection should be present<br>User should be logged in |                                    | 1        | Open browser                                     | Browser should be opened   | Browser is opened  | passed |
|              |             |                                 |   |  |                                    | 2        | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.   | passed |
|              |             |                                 |   |  |                                    | 3        | Enter username and password                      | User should be able to input username and password                                       | user is able to input username and password                                | passed |
|              |             |                                 |   |  |                                    | 4        | Click on login button                            | Home page should be displayed after login and user name should be displayed on home page | Home page is displayed after login   | passed |
|              |             |                                 |   |  |                                    | 5        | Click on any product displayed on home page      | The product page should be displayed.  | The product page is displayed.   | passed |
|              |             |                                 |   |  |                                    | 6        | Click on add to cart for the product.            | The product should be added to cart and user can continue shopping.                      | The product is added to cart and user can continue shopping.               | passed |
| TC003        | Cart Page   | Verify the details on Cart Page | Verify that item quantity should be increased if user adds same item in cart again. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |                                    | 1        | Open browser                                     | Browser should be opened   | Browser is opened  | passed |
|              |             |                                 |   |  |                                    | 2        | Open url   | Ecommerce website should be opened   | user is able to input username and password                                | passed |
|              |             |                                 |   |  |                                    | 3        | Enter username and password                      | User should be able to input username and password                                       | Home page is displayed after login   | passed |
|              |             |                                 |   |  |                                    | 4        | Click on login button                            | Home page should be displayed after login and user name should be displayed on home page | Home page is displayed after login and user name is displayed on home page | passed |
|              |             |                                 |   |  |                                    | 5        | Click on any product displayed on home page      | The product page should be displayed.  | The product page is displayed.   | passed |
|              |             |                                 |   |  |                                    | 6        | Click on add to cart for the product.            | The product should be added to cart.   | The product is added to cart.  | passed |
|              |             |                                 |   |  |                                    | 7        | Click on add to cart again for the same product. | The item quantity should be increases.   | The item quantity is increases.  | passed |
| TC004        | Cart Page   | Verify the details on Cart Page | Verify that total amount of all items should be displayed to user.                  | Browser should be installed<br>Internet connection should be present<br>User should be logged in |                                    | 1        | Open browser                                     | Browser should be opened   | Browser is opened  | passed |
|              |             |                                 |   |  |                                    | 2        | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.   | passed |
|              |             |                                 |   |  |                                    | 3        | Enter username and password                      | User should be able to input username and password                                       | user is able to input username and password                                | passed |
|              |             |                                 |   |  |                                    | 4        | Click on login button                            | User should be logged in and Search functionality is present on home page.               | User is logged in and Search functionality is present on home page.        | passed |
|              |             |                                 |   |  |                                    | 5        | Click on any product displayed on home page      | The product page should be displayed.  | The product page is displayed.   | passed |
|              |             |                                 |   |  |                                    | 6        | Click on add to cart for the product.            | The product should be added to cart.   | The product is added to cart.  | passed |
|              |             |                                 |   |  |                                    | 7        | Click on go to cart button.                      | The total amount of all items in cart should be displayed.                               | The total amount of all items in cart is displayed.                        | passed |



|       |           |                                 |   |  |  |   |  |  |  |        |
|-------|-----------|---------------------------------|---|--|--|---|--|--|--|--------|
| TC005 | Cart Page | Verify the details on Cart Page | Verify that the amount displayed to user should include the taxes and shipping charges as per location. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser   | Browser should be opened   | Browser is opened  | passed |
|       |           |                                 |   |  |  | 2 | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.   | passed |
|       |           |                                 |   |  |  | 3 | Enter username and password                          | user should be able to input username and password                                       | user is able to input user name and password                         | passed |
|       |           |                                 |   |  |  | 4 | Click on login button                                | User should be logged in and home page should be same on different browsers.             | User is logged in and home page is same on different browsers.       | passed |
|       |           |                                 |   |  |  | 5 | Click on any product displayed on home page          | The product page should be displayed.  | The product page is displayed.                                       | passed |
|       |           |                                 |   |  |  | 6 | Click on add to cart for the product.                | The product should be added to cart.   | The product is added to cart.  | passed |
|       |           |                                 |   |  |  | 7 | Click on go to cart button.                          | The total amount should include taxes and shipping charges.                              | The total amount includes taxes and shipping charges.                | passed |
| TC006 | Cart Page | Verify the details on Cart Page | Verify that user should not be able to add items in cart beyond a certain limit.                        | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser   | Browser should be opened   | Browser is opened  | passed |
|       |           |                                 |   |  |  | 2 | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.   | passed |
|       |           |                                 |   |  |  | 3 | Enter username and password                          | user should be able to input username and password                                       | user is able to input user name and password                         | passed |
|       |           |                                 |   |  |  | 4 | Click on login button                                | User should be logged in and alignment of products on home page should be proper.        | User is logged in and alignment of products on home page are proper. | passed |
|       |           |                                 |   |  |  | 5 | Click on any product displayed on home page          | The product page should be displayed.  | The product page is displayed.                                       | passed |
|       |           |                                 |   |  |  | 6 | Click on add to cart for the product for many times. | The user should not be allowed to add items to cart beyond a certain limit.              | The user is not allowed to add items to cart beyond a certain limit. | passed |
| TC007 | Cart Page | Verify the details on Cart Page | Verify that when user clicks on remove from cart button the item should be removed from cart.           | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser   | Browser should be opened   | Browser is opened  | passed |
|       |           |                                 |   |  |  | 2 | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.   | passed |
|       |           |                                 |   |  |  | 3 | Enter username and password                          | user should be able to input username and password                                       | user is able to input user name and password                         | passed |
|       |           |                                 |   |  |  | 4 | Click on login button                                | Home page should be displayed after login and user name should be displayed on home page | home page is displayed after login                                   | passed |
|       |           |                                 |   |  |  | 5 | Click on any product displayed on home page          | User should be redirected to product specification page.                                 | User is redirected to product specification page.                    | passed |
|       |           |                                 |   |  |  | 6 | Click on any product displayed on home page          | The product page should be displayed.  | The product page is displayed.                                       | passed |
|       |           |                                 |   |  |  | 7 | Click on add to cart for the product.                | The product should be added to cart.   | The product is added to cart.  | passed |
|       |           |                                 |   |  |  | 8 | Click on remove from cart button.                    | The item should be removed from cart.  | The item is removed from cart.                                       | passed |



**RESULT:**

Thus the e-commerce application was tested successfully.





**Ex.no: 4**

**Date :**

## **DEVELOP THE TEST PLAN AND DESIGN THE TEST CASES FOR AN INVENTORY CONTROL SYSTEM**

### **AIM:**

To the test plan and design the test cases for an inventory control system.

### **1. Introduction**

Purpose:

The purpose of this test plan is to ensure the quality and reliability of the Inventory Control System. This system is designed to track inventory, manage stock levels, and optimize order processes.

Scope:

This test plan covers the testing of the Inventory Control System, including its functionality, performance, and security.

References: Requirements documentation, system design specifications.

### **2. Test Strategy**

Testing Approach:

A comprehensive testing approach that includes functional, non-functional, and integration testing.

Test Environment:

- Operating Systems: Windows, Linux, macOS
- Web Browsers: Chrome, Firefox, Safari
- Database Systems: MySQL, PostgreSQL
- Mobile Devices (if applicable): iOS and Android

Test Data:

- Test data will include a variety of products, stock levels, orders, and user roles.
- Test data will be generated and managed using test scripts or tools.

### **3. Test Phases**

- Unit Testing: Testing individual components and functions within the system.
- Integration Testing: Testing the integration of various system components.
- Functional Testing: Testing the system's functionality according to defined requirements.
- Performance Testing: Evaluating system performance under different load conditions.
- Security Testing: Assessing system security measures to protect sensitive inventory data.

### **4. Test Scenarios**

- Inventory item creation and management.
- Stock level monitoring and alerts.



- Order processing and tracking.
- User access control and permissions.
- Reporting and analytics.
- Data import and export functionality (if applicable).

## **5. Test Cases**

- Test ID: A unique identifier for each test case.
- Description: A brief description of the test case.
- Precondition: Any necessary conditions or setup required for the test.
- Steps to Reproduce: Step-by-step instructions to execute the test.
- Expected Results: What should be the expected outcome of the test.
- Actual Results: The actual outcome observed during testing.
- Pass/Fail Status: Whether the test case passed or failed.

## **6. Test Execution**

- Test Execution Approach:
- Manual testing for functional and usability testing.
- Automation testing for repetitive and regression testing.
- Testing Schedule: Specify testing timelines, milestones, and deadlines.
- Test Environments: Detail the test environments used for testing.
- Roles and Responsibilities: Define the roles and responsibilities of testing team members.

## **7. Defect Management**

- Defect Tracking Tool: Specify the tool used for defect tracking (e.g., JIRA, Bugzilla).
- Defect Reporting and Documentation Process: Describe the process for reporting, documenting, and resolving defects.
- Defect Prioritization and Severity Criteria: Define how defects will be prioritized and categorized.

## **8. Test Deliverables**

- List of Documents and Artifacts:
- Test plan
- Test cases
- Test reports
- Defect logs

## **9. Risk Assessment**

- Identify Potential Risks:
- Data loss or corruption
- Security breaches



- Performance bottlenecks

- Mitigation Strategies for Identified Risks: Describe how these risks will be addressed and mitigated.

## **10. Schedule**

Preparation (1 week)

- Develop test plan and cases.
- Set up environments.

Testing (5 weeks)

- Unit, Integration, System.
- UAT (2 weeks).

Automation (2 weeks)

Closure (1 week)

- Documentation and approvals.

## **11.Exit Criteria**

- Conditions to conclude testing:
- 95% of test cases passed.
- All critical defects resolved.

## **12.Approvals**

- Stakeholders for test plan review and approval: Project Manager, Development Lead, QA Lead.



## CHECKOUT, PAYMENTS PAGE:

| Test Case ID | Module Name             | Test Scenario                                 | Test Case  | Pre-requisites   | Test Data                                      | Step No. | Test Step                                   | Expected Result  | Actual Result                                     | Status |
|--------------|-------------------------|---|--|--|--|----------|---|--|---|--------|
| TC001        | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that payments options applicable for the order should be displayed at checkout. | Browser should be installed<br>Internet connection should be present                             | Username-<br>Username<br>Password-<br>password | 1        | Open browser                                | Browser should be opened   | Browser is opened.                                | passed |
|              |                         |   |  |  |  | 2        | Open url                                    | Ecommerce website should be opened                                       | Ecommerce website is opened.                      | passed |
|              |                         |   |  |  |  | 3        | Enter username and password                 | User should be able to input username and password                       | User is able to input username and password.      | passed |
|              |                         |   |  |  |  | 4        | Click on login button                       | Home page should be displayed after login                                | homepage is displayed after login                 | passed |
|              |                         |   |  |  |  | 5        | Click on any product displayed on home page | The product page should be displayed.                                    | the product page is displayed.                    | passed |
|              |                         |   |  |  |  | 6        | Click on add to cart for the product.       | The product should be added to cart.                                     | product is added to cart.                         | passed |
|              |                         |   |  |  |  | 7        | Click on Checkout button.                   | The checkout page should be displayed with payments options.             | checkout page is displayed with payments options. | passed |
| TC002        | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that delivery details of items should be displayed at checkout.                 | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1        | Open browser                                | Browser should be opened   | Browser is opened.                                | passed |
|              |                         |   |  |  |  | 2        | Open url                                    | Ecommerce website should be opened                                       | Ecommerce website is opened.                      | passed |
|              |                         |   |  |  |  | 3        | Enter username and password                 | User should be able to input username and password                       | User is able to input username and password.      | passed |
|              |                         |   |  |  |  | 4        | Click on login button                       | Home page should be displayed after login and user name should be login. | homepage is displayed after login.                | passed |
|              |                         |   |  |  |  | 5        | Click on any product displayed on home page | The product page should be displayed.                                    | the product page is displayed.                    | passed |
|              |                         |   |  |  |  | 6        | Click on add to cart for the product.       | The product should be added to cart.                                     | product is added to cart.                         | passed |
|              |                         |   |  |  |  | 7        | Click on Checkout button.                   | The checkout page should be displayed with delivery details.             | checkout page is displayed with payments options. | passed |
| TC003        | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that user should get order details by message or email.                         | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1        | Open browser                                | Browser should be opened   | Browser is opened.                                | passed |
|              |                         |   |  |  |  | 2        | Open url                                    | Ecommerce website should be opened                                       | Ecommerce website is opened.                      | passed |
|              |                         |   |  |  |  | 3        | Enter username and password                 | User should be able to input username and password                       | User is able to input username and password.      | passed |
|              |                         |   |  |  |  | 4        | Click on login button                       | Home page should be displayed after login and user name should be login. | homepage is displayed after login.                | passed |
|              |                         |   |  |  |  | 5        | Click on any product displayed on home page | The product page should be displayed.                                    | the product page is displayed.                    | passed |
|              |                         |   |  |  |  | 6        | Click on add to cart for the product.       | The product should be added to cart.                                     | product is added to cart.                         | passed |
|              |                         |   |  |  |  | 7        | Click on Checkout button.                   | The checkout page should be displayed with payments options.             | checkout page is displayed with payments options. | passed |
|              |                         |   |  |  |  | 8        | Make payment for the order.                 | User should get order details by message or email.                       | User gets order details by message or email.      | passed |





|       |                         |   |  |  |  |   |   |  |   |        |
|-------|-------------------------|---|--|--|--|---|---|--|---|--------|
| TC004 | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that user should be directed to home page after checkout.                                       | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                                | Browser should be opened   | Browser is opened.  | passed |
|       |                         |   |  |  |  | 2 | Open url                                    | Ecommerce website should be opened   | Ecommerce website is opened.  | passed |
|       |                         |   |  |  |  | 3 | Enter username and password                 | user should be able to input username and password   | user is able to input username and password.  | passed |
|       |                         |   |  |  |  | 4 | Click on login button                       | User should be logged in and Search functionality is present on home page.                                   | Search functionality is present on the home page after login.   | passed |
|       |                         |   |  |  |  | 5 | Click on any product displayed on home page | The product page should be displayed.  | the product page is displayed.  | passed |
|       |                         |   |  |  |  | 6 | Click on add to cart for the product.       | The product should be added to cart.   | product is added to cart.   | passed |
|       |                         |   |  |  |  | 7 | Click on Checkout button.                   | The checkout page should be displayed with payments options.   | checkout page is displayed with payments options.   | passed |
|       |                         |   |  |  |  | 8 | Make payment for the order.                 | The order should be confirmed and user should be directed to home page.                                      | order is confirmed and user is directed to homepage.  | passed |
| TC005 | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that user should be displayed payment options such as Credit Card, Debit Card, Net Banking etc. | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                                | Browser should be opened   | Browser is opened.  | passed |
|       |                         |   |  |  |  | 2 | Open url                                    | Ecommerce website should be opened   | Ecommerce website is opened.  | passed |
|       |                         |   |  |  |  | 3 | Enter username and password                 | user should be able to input username and password   | user is able to input username and password.  | passed |
|       |                         |   |  |  |  | 4 | Click on login button                       | User should be logged in and home page should be same on different browsers.                                 | home page is same on different browsers.  | passed |
|       |                         |   |  |  |  | 5 | Click on any product displayed on home page | The product page should be displayed.  | the product page is displayed.  | passed |
|       |                         |   |  |  |  | 6 | Click on add to cart for the product.       | The product should be added to cart.   | product is added to cart.   | passed |
|       |                         |   |  |  |  | 7 | Click on Checkout button.                   | The checkout page should be displayed with payments options such as debit card, credit card, netbanking etc. | The checkout page is displayed with payments options such as debit card, credit card, netbanking etc. | passed |
| TC006 | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that if user is not registered then payment should be done as Guest user.                       | Browser should be installed<br>Internet connection should be present<br>User should be logged in |  | 1 | Open browser                                | Browser should be opened   | Browser is opened.  | passed |
|       |                         |   |  |  |  | 2 | Open url                                    | Ecommerce website should be opened   | Ecommerce website is opened.  | passed |
|       |                         |   |  |  |  | 3 | Click on any product displayed on home page | The product page should be displayed.  | the product page is displayed.  | passed |
|       |                         |   |  |  |  | 4 | Click on add to cart for the product.       | The product should be added to cart.   | product is added to cart.   | passed |
|       |                         |   |  |  |  | 5 | Click on Checkout button.                   | The checkout page should be displayed with payments options.   | checkout page is displayed with payments options.   | passed |
|       |                         |   |  |  |  | 6 | Make payment for the order.                 | The payment should be done as guest user.  | The payment is done as guest user.  | passed |



|       |                         |   |  |  |    |  |  |  |        |
|-------|-------------------------|---|--|--|----|--|--|--|--------|
| TC007 | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that user should be provided with an option to save the payment method.     | Browser should be installed<br>Internet connection should be present<br>User should be logged in |    |  |  |  |        |
|       |                         |   |  |  | 1  | Open browser   | Browser should be opened   | Browser is opened.   | passed |
|       |                         |   |  |  | 2  | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.                               | passed |
|       |                         |   |  |  | 3  | Enter username and password                              | user should be able to input username and password                                       | user is able to input username and password.               | passed |
|       |                         |   |  |  | 4  | Click on login button                                    | Home page should be displayed after login and user name should be displayed on home page | homepage is displayed after login.                         | passed |
|       |                         |   |  |  | 5  | Click on any product displayed on home page              | User should be redirected to product specification page.                                 | user is redirected to product specification page.          | passed |
|       |                         |   |  |  | 6  | Click on any product displayed on home page              | The product page should be displayed.  | the product page is displayed.                             | passed |
|       |                         |   |  |  | 7  | Click on add to cart for the product.                    | The product should be added to cart.   | product is added to cart.                                  | passed |
|       |                         |   |  |  | 8  | Click on Checkout button.                                | The checkout page should be displayed with payments options.                             | checkout page is displayed with payments options.          | passed |
| TC008 | Checkout, Payments Page | Verify the details on Checkout, Payments Page | Verify that session should be timed out if payment is not done for a certain time. | Browser should be installed<br>Internet connection should be present<br>User should be logged in | 9  | Make payment for the order.                              | the user should be able to save payment method for future orders.                        | the user is able to save payment method for future orders. | passed |
|       |                         |   |  |  | 1  | Open browser   | Browser should be opened   | Browser is opened.   | passed |
|       |                         |   |  |  | 2  | Open url   | Ecommerce website should be opened   | Ecommerce website is opened.                               | passed |
|       |                         |   |  |  | 3  | Enter username and password                              | user should be able to input username and password                                       | user is able to input username and password.               | passed |
|       |                         |   |  |  | 4  | Click on login button                                    | Home page should be displayed after login and user name should be displayed on home page | homepage is displayed after login.                         | passed |
|       |                         |   |  |  | 5  | Click on any product displayed on home page              | User should be redirected to product specification page.                                 | user is redirected to product specification page.          | passed |
|       |                         |   |  |  | 6  | Click on any product displayed on home page              | The product page should be displayed.  | the product page is displayed.                             | passed |
|       |                         |   |  |  | 7  | Click on add to cart for the product.                    | The product should be added to cart.   | product is added to cart.                                  | passed |
|       |                         |   |  |  | 8  | Click on Checkout button.                                | The checkout page should be displayed with payments options.                             | checkout page is displayed with payments options.          | passed |
|       |                         |   |  |  | 9  | Select payment method and click on pay.                  | Payment page should be displayed.  | payments options are displayed.                            | passed |
|       |                         |   |  |  | 10 | Stay on payment page for long time without any activity. | The payment session should be timedout.  | The payment session is timedout.                           | passed |



## MY ORDR PAGE

| Test Case ID | Module Name    | Test Scenario                     | Test Case   | Pre-requisites   | Test Data                                      | Step No. | Test Step                                      | Expected Result  | Actual Result  | Status |
|--------------|----------------|-----------------------------------|---|--|--|----------|--|--|--|--------|
| TC001        | My Orders Page | Verify the details on Orders Page | Verify that user should be able to track the order on My orders page. | Browser should be installed Internet connection should be present                          | Username-<br>Username<br>Password-<br>password | 1        | Open browser                                   | Browser should be opened   | Browser is opened.   | passed |
|              |                |                                   |   |  |  | 2        | Open url                                       | Ecommerce website should be opened   | Ecommerce website is opened.                                       | passed |
|              |                |                                   |   |  |  | 3        | Enter username and password                    | user should be able to input username and password                             | user is able to input username and password.                       | passed |
|              |                |                                   |   |  |  | 4        | Click on login button                          | Home page should be displayed after login                                      | homepage is displayed after  | passed |
|              |                |                                   |   |  |  | 5        | Click on My orders button                      | The orders by user should be displayed.  | orders by users are displayed.                                     | passed |
|              |                |                                   |   |  |  | 6        | Click on Track order for a order.              | Tracking information should be displayed for that order.                       | Tracking information is displayed for that order.                  | passed |
| TC002        | My Orders Page | Verify the details on Orders Page | Verify that user should be able to change the delivery date and time. | Browser should be installed Internet connection should be present<br>User should be logged |  | 1        | Open browser                                   | Browser should be opened   | Browser is opened.   | passed |
|              |                |                                   |   |  |  | 2        | Open url                                       | Ecommerce website should be opened   | Ecommerce website is opened.                                       | passed |
|              |                |                                   |   |  |  | 3        | Enter username and password                    | user should be able to input username and password                             | user is able to input username and password.                       | passed |
|              |                |                                   |   |  |  | 4        | Click on login button                          | Home page should be displayed after login and user name should be displayed on | homepage is displayed after login.                                 | passed |
|              |                |                                   |   |  |  | 5        | Click on My orders button                      | The orders by user should be displayed.  | orders by users are displayed.                                     | passed |
|              |                |                                   |   |  |  | 6        | Click on change delivery date and time button. | The user should be provided details for selecting delivery date and time.      | The user is provided details for selecting delivery date and time. | passed |
| TC003        | My Orders Page | Verify the details on Orders Page | Verify that user should be able to cancel the order                   | Browser should be installed Internet connection should be present<br>User should be logged |  | 1        | Open browser                                   | Browser should be opened   | Browser is opened.   | passed |
|              |                |                                   |   |  |  | 2        | Open url                                       | Ecommerce website should be opened   | Ecommerce website is opened.                                       | passed |
|              |                |                                   |   |  |  | 3        | Enter username and password                    | user should be able to input username and password                             | user is able to input username and password.                       | passed |
|              |                |                                   |   |  |  | 4        | Click on login button                          | Home page should be displayed after login and user name should be displayed on | homepage is displayed after login.                                 | passed |
|              |                |                                   |   |  |  | 5        | Click on My orders button                      | The orders by user should be displayed.  | orders by users are displayed.                                     | passed |
|              |                |                                   |   |  |  | 6        | Click on cancel order for an order.            | User should be able to cancel the order.                                       | User is able to cancel the order.                                  | passed |



## **RESULT:**

Thus the test plan was developed and test cases was designed successfully for an inventory control system.





**Ex.no: 5**

**Date :**

## **EXECUTE A CLIENT SERVER OR DESKTOP APPLICATION TESTCASE AND IDENTITY THE DEFECTS**

### **AIM:**

To execute testcases against a client server or desktop application  
identify the defects.



| Test Case ID | Test Case Objective                                   | Prerequisite       | Steps  | Input Data    | Expected Result                                       | Actual Result                      | Remarks/ Status |
|--------------|---|--------------------|--|---------------|---|------------------------------------|-----------------|
| TC001        | Check if the calculator starts correctly.             | None               | Start the calculator through specified means (e.g., search bar, menu items). | N/A           | Calculator window is displayed on the screen.         | Calculator window is displayed.    | Passed          |
| TC002        | Check if the calculator window maximizes correctly.   | Calculator started | Maximize the calculator window using the window control buttons.             | N/A           | Calculator window is maximized to the specified size. | Calculator window is maximized to. | Passed          |
| TC003        | Check if the calculator closes correctly.             | Calculator started | Press the close button or choose exit from the file menu.                    | N/A           | Calculator window is closed.                          | Calculator window is closed.       | Passed          |
| TC004        | Check if the help document is accessible.             | Calculator started | Access the help documentation through the Help menu.                         | N/A           | Help documentation is displayed.                      | Help documentation is displayed.   | Passed          |
| TC005        | Check if copy-and-paste functionality works.          | Calculator started | Copy and paste values from one part of the calculator to another.            | Sample values | Values are successfully copied and pasted.            | Values are copied and pasted.      | Passed          |
| TC006        | Check if calculator preferences are configurable.     | Calculator started | Access the preferences/ settings and make changes.                           | Changes made  | Preferences are successfully configured.              | Preferences are configured.        | Passed          |
| TC007        | Check if all numbers (0 to 9) are working.            | Calculator started | Press each number key (0 to 9) and observe the result.                       | N/A           | All numbers are displayed correctly.                  | All numbers are displayed.         | Passed          |
| TC008        | Check if arithmetic keys (+, -, *, %, /) are working. | Calculator started | Perform arithmetic operations using the respective keys.                     | Operations    | Calculations are performed correctly.                 | Calculations are performed.        | Passed          |
| TC009        | Check if the clear key is functioning.                | Calculator started | Enter some values and use the clear key to clear the input.                  | Input         | Input is cleared as expected.                         | Input is cleared as expected.      | Passed          |
| TC010        | Check if brackets keys are working.                   | Calculator started | Perform calculations involving brackets and observe the result.              | Input         | Brackets are applied correctly in calculations.       | Brackets are applied correctly.    | Passed          |



|       |   |                    |  |               |  |  |        |
|-------|---|--------------------|--|---------------|--|--|--------|
| TC021 | Verify the square key works properly.                             | Calculator started | Perform square calculations with different numbers.  | Input         | Square operation is performed correctly.                               | Square operation is performed .                              | Passed |
| TC022 | Verify the square root key works properly.                        | Calculator started | Perform square root calculations with different numbers.   | Input         | Square root operation is performed correctly.                          | Square root operation is performed.                          | Passed |
| TC023 | Ensure BODMAS/BIDMAS is applied when running complex queries.     | Calculator started | Perform complex calculations involving multiple operations and parentheses.                                    | Input         | BODMAS/BIDMAS rules are applied correctly, and the result is accurate. | BODMAS/BIDMAS rules are applied correctly.                   | Passed |
| TC024 | Validate using decimal characters yields correct result.          | Calculator started | Perform calculations with decimal numbers and observe the result.  | Decimal Input | Decimal calculations produce accurate results.                         | Decimal calculations produce accurate results.               | Passed |
| TC025 | Ensure the spacing of all like buttons is equal.                  | Calculator started | Observe the spacing between buttons for each type of operation.  | N/A           | Spacing between like buttons is equal.                                 | Spacing between like buttons is equal.                       | Passed |
| TC026 | Validate the number of digits allowed in the calculator.          | Calculator started | Enter a sequence of numbers and observe if there is a limit to the number of digits allowed in the calculator. | Input         | Calculator allows the expected number of digits.                       | Calculator allows the expected number of digits              | Passed |
| TC027 | Check the response value limit of the calculator.                 | Calculator started | Perform calculations with large results and observe if there is a limit to the displayed value.                | Input         | Calculator displays results within the expected limit.                 | Calculator displays results within the expected limit.       | Passed |
| TC028 | Ensure the memory functions work as expected.                     | Calculator started | Store and recall values using memory functions.  | Memory Input  | Memory functions successfully store and recall values.                 | Memory functions are store.                                  | Passed |
| TC029 | Validate previous calculations can be viewed.                     | Calculator started | Perform multiple calculations and check if a history or log of previous calculations is available.             | N/A           | Previous calculations are visible in the calculator history.           | Previous calculations are visible in the calculator history. | Passed |
| TC030 | Verify the "C" or clear button cancels all digits and operations. | Calculator started | Enter some values and use the clear button to clear the input.   | Input         | Calculator display is cleared.   | Calculator display is cleared.                               | Passed |



|       |  |                    |  |                |   |   |        |
|-------|--|--------------------|--|----------------|---|---|--------|
| TC041 | Verify the multiplication of one negative and one positive number. | Calculator started | Enter one negative and one positive number and perform multiplication. | Mixed Input    | Multiplication is performed correctly, considering the signs. | Multiplication is performed, considering the signs. | Passed |
| TC042 | Verify the division of two integer numbers.                        | Calculator started | Enter two integer numbers and perform division.                        | Integer Input  | Division is performed correctly.                              | Division is performed.                              | Passed |
| TC043 | Verify the division of two negative numbers.                       | Calculator started | Enter two negative numbers and perform division.                       | Negative Input | Division is performed correctly, considering the signs.       | Division is performed, considering the signs.       | Passed |
| TC044 | Verify the division of one positive number and one integer number. | Calculator started | Enter one positive and one integer number and perform division.        | Mixed Input    | Division is performed correctly, considering the signs.       | Division is performed, considering the signs.       | Passed |
| TC045 | Verify the division of a number by zero results in an error.       | Calculator started | Attempt to divide a number by zero.                                    | Divide by Zero | Calculator displays an error message.                         | Calculator displays an error message.               | Passed |
| TC046 | Verify the division of a number by a negative number.              | Calculator started | Enter a number and divide it by a negative number.                     | Negative Input | Division is performed correctly, considering the signs.       | Division is performed, considering the signs.       | Passed |
| TC047 | Check if the division of zero by any number results in zero.       | Calculator started | Divide zero by any number.   | Zero Input     | Calculator displays the result as zero.                       | Calculator displays the result as zero.             | Passed |

## RESULT:

Thus the test cases are executed against the desktop application.





Ex. No:6

Date:

## **Test the performance of the E-commerce Application**

### **AIM:**

To test the performance of the e-commerce application.

### **PROCEDURE:**

**Step 1:** Open chrome: Use google chrome, a web browser.

**Step 2:** Visit your website: Go to the website you want to test.

**Step 3:** Check the websites performance:

- Right click on the web page and choose “Inspect”.
- Go to the “Light house” tab it the top.

**Step 4:** Start the test: click on “Generate report”.

**Step 5:** See the result.

- Light house will give your website a score for performance.
- It will also provide tips to make your website faster.

### **RESULT:**

Thus the test plan for the test performance of e-commerce applications was implemented successfully.



**EX.NO :7**

**DATE:**

## **AUTOMATE THE TESTING OF E-COMMERCE APPLICATIONS USING SELENIUM**

### **AIM:**

To automate using ecommerce application using selenium.

### **PROCEDURE:**

Step 1: open the chrome and install the selenium IDE add on

Step 2: After installation open, selenium and give the website url

Step 3: Create a new project and give a name and rename the task name

Step 4:Run url

Step 5: Stop recorder

Step 6: Check if the output generated is without error

Step 7: Stop.

OUTPUT:

Selenium IDE - amazon\*

Project: amazon\*

Executing

https://www.amazon.in

|   | Command           | Target                      | Value |
|---|-------------------|-----------------------------|-------|
| 1 | ✓ open            | /                           |       |
| 2 | ✓ set window size | 784x816                     |       |
| 3 | ✓ run script      | window.scrollTo(0,0)        |       |
| 4 | ✓ run script      | window.scrollTo(0,0)        |       |
| 5 | ✓ click           | id=twotabsearchtextbox      |       |
| 6 | ✓ mouse over      | id=nav-search-submit-button |       |
| 7 | ✓ close           |                             |       |

Commandopen

Target/

Value

Description

Runs: 5 Failures: 0

LogReference

'tc002' completed successfully

Running 'tc003'

'tc003' completed successfully

Running 'tc004'

'tc004' completed successfully

Running 'tc005'

'tc005' completed successfully

11:30:17

11:30:17

11:30:18

11:30:18

11:30:18

11:30:18

11:30:19

**RESULT:**

Thus the ecommerce application is tested using selenium.



**Ex no:8**

**Date:**

## **Integrate test NG**

### **Aim:**

To integrate Test NG with about test automation.

### **Algorithm:**

Step 1: Install Test NG in eclipse.

go to "help" > "eclipse Market place" and install Test NG.

Step 2: create a T

est NG test class.

Right -click project ,choose "new">"class",name it, write a Test NG test method.

Step 3: create "testing.xml".

Right click project,choose "new">"file" name it "testing.xml",and define suite and test structure.

Step 4: Run Test NG suite. check eclipse console for test output.

### **Program:**

```
import org.testng.annotations.Test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
```





```
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import org.testng.annotations.BeforeMethod;

public class mahesh {
    @BeforeMethod
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }
    @AfterMethod
    public void tearDown() {
        driver.quit();
    }
    @Test
    public void q() {
        driver.get("https://www.amazon.in/");
        driver.manage().window().setSize(new Dimension(681, 565));
        driver.findElement(By.id("twotabsearchtextbox")).click();
        driver.findElement(By.id("twotabsearchtextbox")).sendKeys("qwerty");
        {
            WebElement element = driver.findElement(By.id("nav-search-submit-button"));
            Actions builder = new Actions(driver);
            builder.moveToElement(element).perform();
        }
    }
}
```



```
        driver.findElement(By.id("nav-search-submit-button")).click();  
    }  
  
}
```

### **Result:**

Thus the program for integrate Test NG with about test automation was successfully verified and executed.