

Exp no : 1 Develop the tests plan for testing an e-commerce
Date: web/mobile-application

Aim

To develop the test plan for testing an e-commerce web/mobile application

Procedure

1.Scope:

- User Interface (UI) Testing: Evaluate layout consistency, responsive design, and navigation functionality across web and mobile platforms.
- Functional Testing: Verify critical features like user registration/login, product search/filtering, shopping cart, checkout process, order confirmation, and user account management.
- Performance Testing: Assess application load handling under high traffic and measure response times during various scenarios.
- Security Testing: Check data protection measures, authentication vulnerabilities, and ensure compliance with payment security standards
- Usability and Compatibility Testing: Gather user experience feedback and ensure compatibility across different browsers, devices, and operating systems.
- Integration and Regression Testing: Test interactions with third-party services and verify that new features do not disrupt existing functionalities.

2. Test Objectives:

- Verify that users can browse and search for products.
- Confirm that products are displayed accurately with correct details.
- Test the user registration and login process.
- Validate the shopping cart and checkout process.
- Test payment processing and order placement.
- Check for responsiveness and usability on mobile devices.
- Verify security aspects such as data encryption and session management.

3. Test Environment:

- Web Browsers: Chrome, Firefox, Safari, Edge.
- Mobile Devices: iOS and Android devices.
- Testing Framework: Selenium WebDriver with Java.
- Load Testing: Apache JMeter for performance testing.
- Security Testing: OWASP ZAP or similar tool.

4. Test Cases:

- Test cases should cover registration, login, product browsing, cart management, payment processing, etc.
- Include positive and negative scenarios, edge cases, and stress tests.

5. Test Execution:

- Automate test cases using Selenium WebDriver.
- Execute tests across different browsers and mobile devices.
- Use load testing tools to simulate high user traffic and monitor performance.
- Perform security testing to identify vulnerabilities.

6. Test Data:

- Use real and dummy data for testing.
- Test accounts, products, payment methods, addresses, etc.

7. Risks and Assumptions:

- Risk: Changes in the website's structure might break automation scripts.
- Risk: Mobile app updates might affect test scripts and compatibility.
- Assumption: Test data in the environment matches real-world scenarios.

8. Deliverables:

- Test reports summarizing test results, defects found, and performance analysis.
- Documentation of test cases, procedures, and configurations.
- Recommendations for improvements and fixes.

Test Plan

In order to test the E-Commerce application we test its individual features and ensure their proper functioning. The following are the features that we will have to test to ensure proper functioning of the website.

1. Login
2. Search Feature
3. Product Details Page (PDP)
4. Shopping Cart
5. Order Confirmation Page

1 – Testing the Login flow of an eCommerce Site

- Verify if the customer can purchase items as a guest user, assuming the site permits it.

- Verify if a guest user can easily create an account from the order confirmation page after placing an order.
- Verify if a guest user can register as a member from the registration page.
- Verify if the products in the cart are correctly associated with the logged-in member's account.
- Verify if the user is still being prompted to sign in once logged in; this should not happen.
- Verify if user sessions are being maintained for the intended time period.
- Verify if the user's session times out and expires after the stipulated time.

2 – Testing the Search feature of an eCommerce Site

- Verify if the search feature is robust enough to allow searching by product names, brand names, or product categories.
- Verify if the search results are relevant for all variations of search keywords.
- Verify if the search results page has sorting options. If sorting options are available, check if customers can sort the results based on price (high to low, low to high), date ranges, brand, review/ratings, etc.
- Verify how many results are displayed on each page.
- Verify if the next page loads automatically when the user scrolls. If not, verify if the user can easily navigate to the next search result page using pagination.

3 – Testing the Product Details Page (PDP) of an eCommerce Site

- Verify if the page displays all the product-related information (e.g., product name, SKU, price, discount if any, product images, quantity changer, etc.) as expected.
- Verify if the page displays other similar products that were bought by customers who purchased this item.
- Verify if the customer can customize the product if it is customizable and available with variations (e.g., size, colors, etc.).
- Verify if the page shows the stock availability accurately.
- Verify if the user can select the required number of items using the quantity selector and then add the product to the cart.
- Verify if the product gets added to the cart when added.
- Verify if the quantity in the cart gets updated when the product is added to the cart.

4 – Testing the Shopping Cart of an Online Shopping Platform

- Verify that the cart updates to show the updated quantity when an item is added to it.
- Verify if you can increase or decrease the quantity of an item from both the cart and mini-cart.
- Verify if you can remove an item from both the cart and mini-cart.
- Verify if you can add the same item several times to the cart.
- Verify if you can add several variations (e.g., color, size, etc.) of the same item to the cart.
- Verify if you can add several items of different types to the cart.
- Verify if you can visit the product detail page by clicking on an item from the cart.
- Verify if the cart remembers the items, their quantity, and price correctly even if you accidentally close and then reopen the browser.
- Verify if the discount is correctly applied when valid coupon codes and discount vouchers are used in the cart.

5 – Testing the Order Confirmation Page of an Online Shopping Portal

- Verify if the page displays the Order ID correctly.
- Verify if the page displays the product details correctly.
- Verify if the page offers an easy way for guest users to create an account.
- Verify if the customer receives an order confirmation email or SMS text message along with the order.

Evaluation Parameter	Max. Marks	Marks Awarded
Observation	20	
Implementation	40	
Output	10	
Viva	10	
Record	20	
Total Marks	100	

RESULT

Thus the test plan for testing an e-commerce web/mobile application was successfully created and output verified.

Exp No : 2 Design the test cases for testing the e-commerce application

Date :

Aim

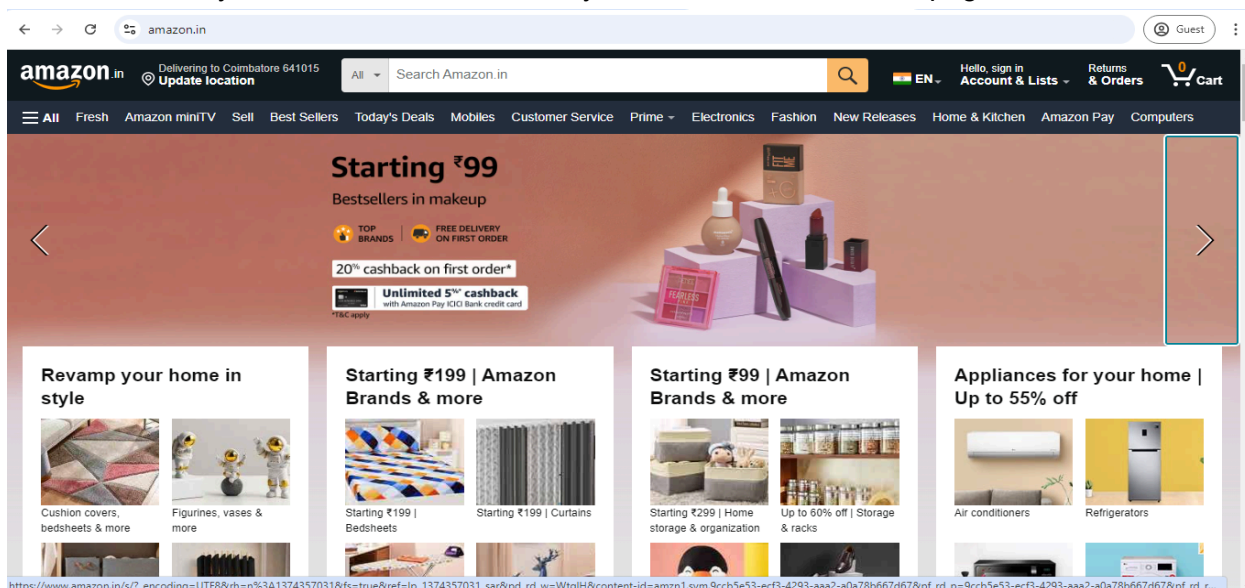
To design the test cases for testing the e-commerce application(amazon.in)

Procedure

The following are the scenarios that are designed for our test cases to ensure a smooth user experience while using the ecommerce website .

Home Page Test cases

- To verify the home page should be displayed after a successful login or Not.
- To verify that the user name is displayed on the homepage or not.
- To verify that the home page is working in different browsers.
- To verify that the products are displayed on the home page or not.
- To verify that the search functionality is available on the home page or not.



Login test cases

- To verify Valid Username and Valid Password
- To verify Invalid Username and Valid Password
- To verify Valid Username and Invalid Password
- To verify Invalid Username and Invalid Password

amazon.in

Sign in

Email or mobile phone number

Continue

By continuing, you agree to Amazon's [Conditions of Use](#) and [Privacy Notice](#).

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[Shop on Amazon Business](#)

New to Amazon?

Create your Amazon account


[Conditions of Use](#) [Privacy Notice](#) [Help](#)

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Product Detail Test Cases

- To verify that the images of products are displayed on the page correctly or not.
- To verify that the price of the product should be displayed.
- To verify that the product specifications should display.
- To verify that the product reviews are displayed on the page correctly or not.

VIDEO



Roll over image to zoom in

Apple 2023 MacBook Pro (14-inch, M3 Pro chip with 11-core CPU and 14-core GPU, 18GB Unified Memory, 512GB) - Space Black

Visit the Apple Store

4.6 28 ratings | [Search this page](#)

50+ bought in past month

Great Freedom Sale

-10% ₹1,79,990

M.R.P.: ₹1,99,999

Inclusive of all taxes

EMI starts at ₹8,726. No Cost EMI available [EMI options](#)

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Upto ₹1,500.00 discount on SBI Credit Cards

5 offers >

No Cost EMI

Upto ₹8,104.74 EMI interest savings on Amazon Pay ICICI...

1 offer >

Partner Offers

Get upto 4 month Audible members for Rs.2. T&C appl

2 offers >

7 days Service Centre Replacement

Free Delivery

Warranty Policy

Top Brand

Amazon Delivered

Colour: Space Black

Size: 512 GB

1 TB

512 GB

Style Name: Apple M3 Pro Chip

Apple M3 Chip

Apple M3 Pro Chip

With Exchange

Up to ₹ 17,000.00 off

Without Exchange

₹ 179,990.00 ₹ 199,990.00

FREE delivery 10 - 14 August

Delivering to Coimbatore 641014 - Update location

Available to ship in 1-2 days

Ships from Amazon

Sold by Appario Retail Private Ltd

Add a Protection Plan:

☐ Protect+ with AppleCare Services - 2 Year for ₹20,499.00

Add to Cart

Buy Now

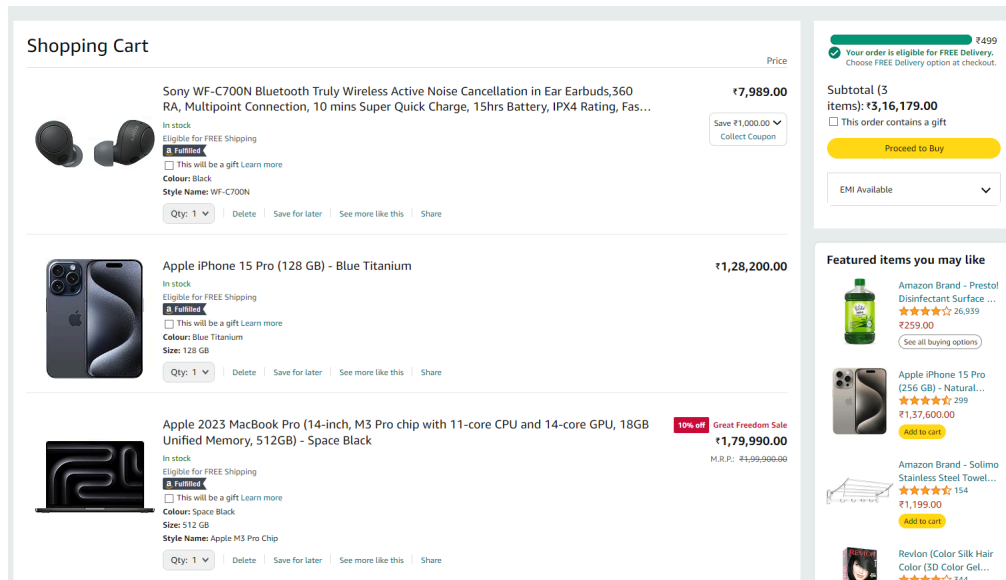
Secure transaction

☐ Add gift options

Add to Wish List

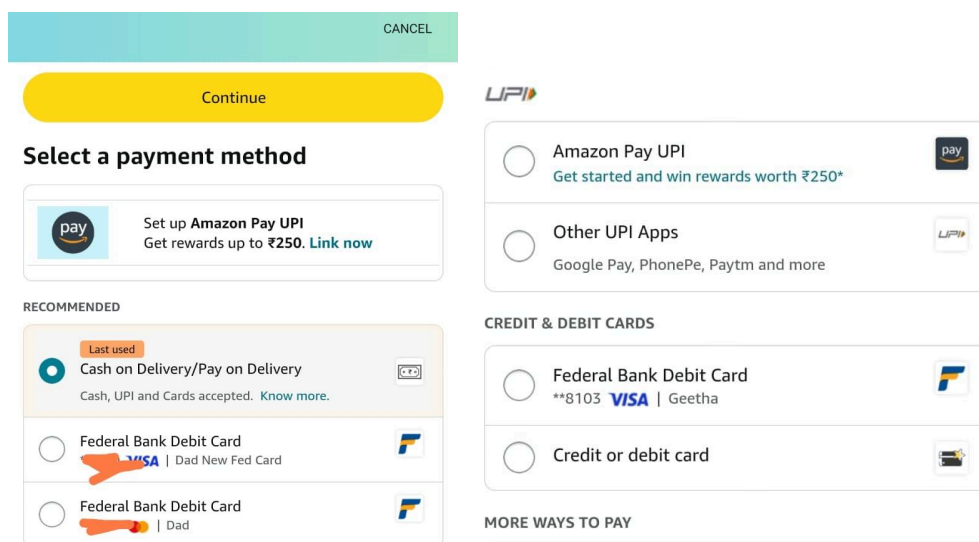
Shopping Cart

- To verify that the Add to cart button is clickable or not.
- To verify after clicking Add to cart button, Products are moved to Cart or not.
- To verify that the total amount of all the items is displayed or not.
- To verify that the tax information is displayed or not.
- To verify that the user is able to see shipping charges as per location



Payments

- To verify that the payment options are displayed on the checkout page or not.
- To verify the Name on Card, Card Number, Expiry Date, and CVV number are mandatory fields on the Payment Page or not.
- To verify that the error message is displayed when the user enters incorrect data in all the mandatory fields on the payment page.
- To verify that the user is able to place an order successfully.



Test Cases Table

Test Scenario Id	Test Scenario Description	Test Case Id	Test Case Description	Test Steps	Precondition	Test Data	Expected Result
TS_HomePage	To test the functionality of the Home Page of the application	TC_HP_001	To verify the home page should be displayed after a successful login or not.	1.Login with correct credentials	1.Valid URL 2.Test Data	Username: test Password: correct	The user is redirected to the Home Page of the application
		TC_HP_002	To verify that the user name is displayed on the homepage or not.	1.Login with correct credentials	1.Valid URL 2.Test Data	Username: test Password: correct	User name is displayed on the homepage.
		TC_HP_003	To verify that the home page is in different browsers.	1.Open URL in different Browsers	1.Valid URL 2.Test Data	URL : www.amazon.in	The user is directed to the Home Page of the application
		TC_HP_004	To verify that the products are displayed on the home page or not.	1.Open URL in different Browsers	1.Valid URL 2.Test Data	URL : www.amazon.in	The Home Page displays the Products to the user.
		TC_HP_005	To verify that the search functionality is available on the home page or not.	1.Open URL in different Browsers	1.Valid URL 2.Test Data	URL : www.amazon.in	The Search bar is available to the user on the top of the page.

TS_Login	To test the login Functionality of the applicaion	TC_L_001	Enter Valid Username and Valid Password	1.Enter Valid Username 2.Enter Valid Password 3.Click Login	1.Valid URL 2.Test Data	Username: test@gmail.com Password: correct	User should be able to succesfuly login
		TC_L_002	Enter Invalid Username and Valid Password	1.Enter Invalid Username 2.Enter Valid Password 3.Click Login	1.Valid URL 2.Test Data	Username: wrongtest@gmail.com Password: correct	User should get a prompt for incorrect credential s
		TC_L_003	Enter Valid Username and Invalid Password	1.Enter Valid Username 2.Enter Valid Password 3.Click Login	1.Valid URL 2.Test Data	Username: test@gmail.com Password: wrong	User should get a prompt for incorrect credential s
		TC_L_004	Enter Invalid Username and Invalid Password	1.Enter Invalid Username 2.Enter Invalid Password 3.Click Login	1.Valid URL 2.Test Data	Username: wrongtest@gmail.com Password: wrong	User should get a prompt for incorrect credential s
TS_Product Details	To test the Product Details displayed for a selected Product	TC_PD_001	To verify that the images of products are displayed on the page correctly or not.	1. Select a Product 2.Click on it	1.Valid URL 2. Test Data	Click The Displayed Product	The user should be displayed the images of the selected product
		TC_PD_002	To verify that the price of the product should be displayed.	1. Select a Product 2.Click on it	1.Valid URL 2. Test Data	Click The Displayed Product	The user should be displayed the Price of the selected

							product
		TC_PD_003	To verify that the product specifications should display.	1. Select a Product 2. Click on it	1. Valid URL 2. Test Data	Click The Displayed Product	The user should be displayed the specification of the selected product
		TC_PD_004	To verify that the product reviews are displayed on the page correctly or not.	1. Select a Product 2. Click on it	1. Valid URL 2. Test Data	Click The Displayed Product	The user was displayed the product reviews of the selected product
TS_ShoppingCart	To test the Shopping Cart functionality of the selected Product	TC_SC_001	To verify that the Add to cart button is clickable or not.	1. Select a Product 2. Click Add to Cart Button	1. Valid Product 2. Test Data	Click The Add to Cart Button	The Button is Clickable
		TC_SC_002	To verify after clicking Add to cart button, Products are moved to Cart or not.	1. Select a Product 2. Click Add to Cart Button	1. Valid Product 2. Test Data	Click The Add to Cart Button	The Product Gets Added to the Cart
		TC_SC_003	To verify that the total amount of all the items is displayed or not.	1. Go to Cart 2. Adjust the item Quantity	1. Valid Product 2. Test Data	Adjust the quantity of the item in cart	The total count of product is displayed correctly
		TC_SC_004	To verify that the tax information is displayed or not.	1. Go to Cart 2. Navigate to the bottom of Page	1. Valid Product 2. Test Data	Click the cart total	The Tax info of the items is displayed

		TC_SC_005	To verify that the user is able to see shipping charges as per location	1.Go to Cart 2.Navigate to the bottom of Page	1.Valid Product 2.Test Data	Click the cart total	The Shipping info of the items is displayed
TS_Payment	To test the payments functionality of the checked out items	TC_P_001	To verify that the payment options are displayed on the checkout page or not.	1.Go to Cart 2.Checkout	1.Valid Product 2.Test Data	Click Checkout	All the payment Options are Displayed
		TC_P_002	To verify the Name on Card, Card Number, Expiry Date, and CVV number are mandatory fields on the Payment Page or not.	1.Go to Cart 2.Checkout 3.Click Checkout	1.Valid Product 2.Test Data	Name on Card: TEST Card No : 1234 4678 9123 1568 Expiry Date: 01/2029 CVV: 123	The user is redirected to the Bank Payment Page
		TC_P_003	To verify that the error message is displayed when the user enters incorrect data in all the mandatory fields on the payment page.	1.Go to Cart 2.Checkout 3.Click Checkout	1.Valid Product 2.Test Data	Name on Card: WrongTEST Card No : 1234 4678 9123 1568 Expiry Date: 01/2029 CVV: 123	The user is prompted for incorrect Credentials
		TC_P_004	To verify that the user is able to place an order successfully.	1.Go to Cart 2.Checkout 3.Make Payment	1.Valid Product 2.Test Data	Enter OTP and wait for successful Payment	The order is placed successfully

Evaluation Parameter	Max. Marks	Marks Awarded
Observation	20	
Implementation	40	
Output	10	
Viva	10	
Record	20	
Total Marks	100	

RESULT

Thus the design of the test cases for testing the e-commerce application(amazon.in) was created successfully.

Exp No: **Test the e-commerce application and report the defects in it.**
Date:

AIM:

To test an e-commerce application (amazon.in) and report the defects in it.

PROCEDURE:

1. Run the command `pip install selenium` to install the Selenium library in your Python environment.
2. Download the appropriate WebDriver for your browser (e.g., ChromeDriver for Chrome) and place it in a known location.
3. Set up a function that initializes the WebDriver (e.g., ChromeDriver) and navigates to the desired website (in this case, Amazon).
4. Implement a mechanism to pause the execution in case a Captcha appears, allowing the user to manually resolve it before continuing.
5. Create a login page using flask with an input field for username and password
6. Write a function in selenium that testes the username and password field with various inputs for both the field

PROGRAM:

For the Login Page:

```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
import time

# Set up the WebDriver (this example uses ChromeDriver)
# If you have ChromeDriver installed in a different location, specify the full path
driver = webdriver.Chrome('F:/Sem VII Labs/chromedriver-win64/chromedriver.exe')

# Open the login page
```

```
driver.get("http://127.0.0.1:5000")

# Test case: Attempt to log in with invalid credentials
def test_invalid_login():
    driver.get("http://127.0.0.1:5000") # Load the Flask login page

    # Find the username and password fields
    username_field = driver.find_element("name", "username")
    password_field = driver.find_element("name", "password")

    # Input invalid credentials
    username_field.send_keys("wronguser")
    password_field.send_keys("wrongpass")

    # Submit the login form
    password_field.send_keys(Keys.RETURN)

    # Wait for the alert to show up
    time.sleep(2)

    # Check for alert by switching to alert and getting the text
    alert_text = driver.switch_to.alert.text
    if "Invalid username or password" in alert_text:
        print("Test Case Passed: Invalid login warning displayed.")
    else:
        print("Test Case Failed: No invalid login warning displayed.")

    # Close the alert
    driver.switch_to.alert.accept()
```

```
# Test case: Attempt to log in with valid credentials

def test_valid_login():

    driver.get("http://127.0.0.1:5000") # Load the Flask login page


    # Find the username and password fields
    username_field = driver.find_element("name", "username")
    password_field = driver.find_element("name", "password")


    # Input valid credentials
    username_field.send_keys("admin")
    password_field.send_keys("password123")


    # Submit the login form
    password_field.send_keys(Keys.RETURN)


    # Wait for the alert to show up
    time.sleep(2)

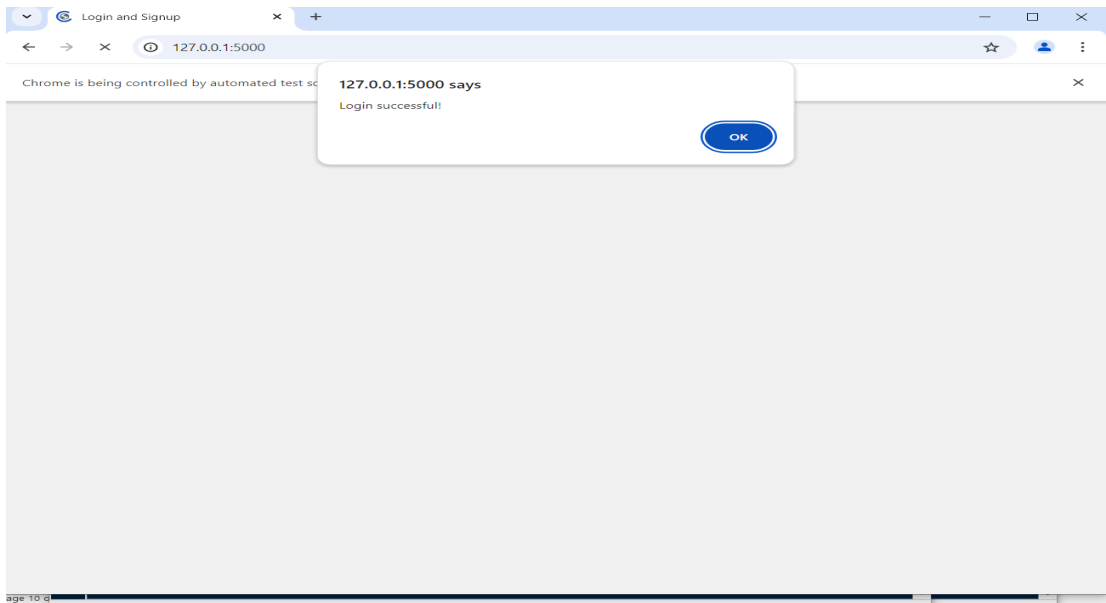
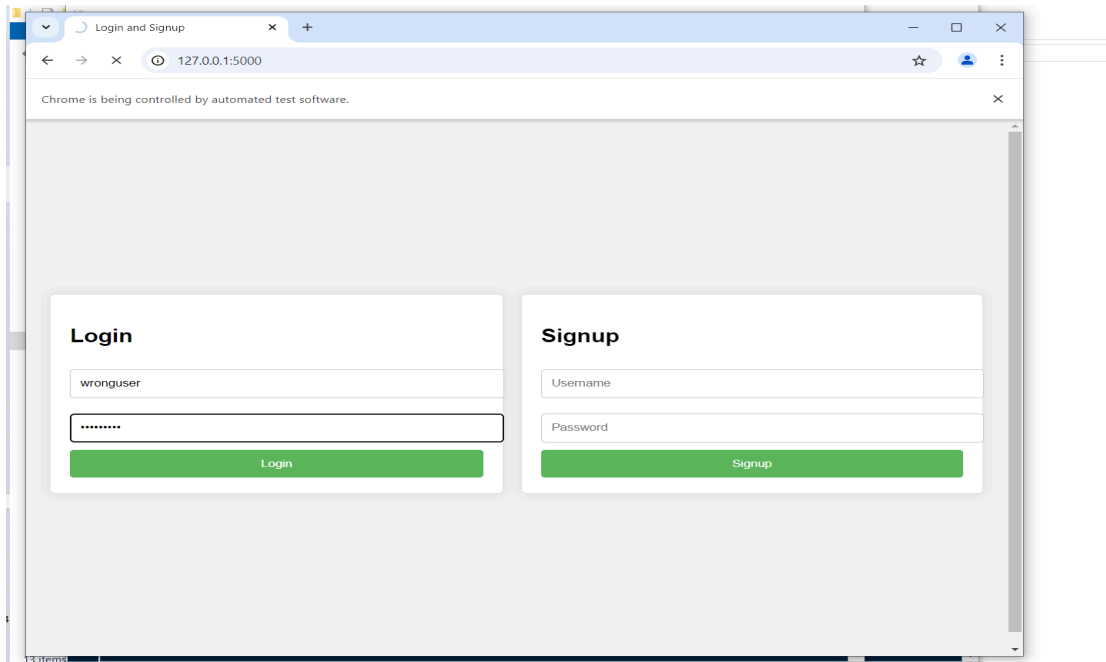
    # Check for alert by switching to alert and getting the text
    alert_text = driver.switch_to.alert.text
    if "Login successful" in alert_text:
        print("Test Case Passed: Valid login successful.")
    else:
        print("Test Case Failed: No success message displayed.")

    # Close the alert
    driver.switch_to.alert.accept()

# Running the test cases
test_invalid_login() # Test with invalid credentials
```

```
time.sleep(1)      # Short pause between tests
test_valid_login() # Test with valid credentials
# Close the browser
driver.quit()
```

OUTPUT:




```
===== RESTART: F:\Sem VII Labs\test_login.py =====  
  
Warning (from warnings module):  
  File "F:\Sem VII Labs\test_login.py", line 7  
    driver = webdriver.Chrome('F:/Sem VII Labs/chromedriver-win64/chromedriver.exe')  
DeprecationWarning: executable_path has been deprecated, please pass in a Service object  
Test Case Passed: Invalid login warning displayed.  
Test Case Passed: Valid login successful.  
>>>
```

Evaluation Parameter	Max. Marks	Marks Awarded
Observation	20	
Implementation	40	
Output	10	
Viva	10	
Record	20	
Total Marks	100	

Result

Testing an e-commerce application (amazon.in) using Selenium and the defects present in it are reported.

DATE: _____ **CONTROL SYSTEM**

To develop a test plan and to design test cases for testing an inventory control system to ensure its proper functionality in tracking and managing inventory levels, orders, and stock movements

Procedure:

1. Scope:

- **User Interface (UI) Testing:** Evaluate the layout, navigation, and accessibility across web and mobile platforms.
- **Functional Testing:** Test core features like adding/removing items, updating inventory levels, managing suppliers, tracking stock, and generating reports.
- **Performance Testing:** Assess the system's response time under high inventory operations and large datasets.
- **Security Testing:** Check for vulnerabilities in data protection, user access controls, and compliance with data security standards.
- **Usability and Compatibility Testing:** Ensure the application is compatible with multiple browsers, devices, and operating systems, and gather feedback for user experience improvements.
- **Integration and Regression Testing:** Test interactions with third-party services (like suppliers, financial systems) and ensure new updates do not disrupt existing functionalities.

2. Test Objectives:

- Verify users can add, update, and delete inventory items.
- Confirm real-time inventory tracking and accurate stock levels.
- Test user roles and permissions (admin, manager, staff).
- Validate supplier management and order history.
- Ensure generation of inventory reports (daily, weekly, monthly).
- Test the application's responsiveness on mobile devices.
- Verify data encryption and secure handling of sensitive information.

3. Test Environment:

- **Web Browsers:** Chrome, Firefox, Safari, Edge.
- **Mobile Devices:** iOS and Android devices.

- **Testing Framework:** Selenium WebDriver for UI testing.
- **Load Testing:** Apache JMeter for performance assessment.
- **Security Testing:** OWASP ZAP or similar tools for vulnerability checks.

4. Test Cases:

- Test cases should cover item creation, stock updates, supplier management, user permissions, and reporting.
- Include both positive and negative scenarios, edge cases, and stress tests.

5. Test Execution:

- Automate test cases using Selenium WebDriver for web testing.
- Execute tests across different browsers and mobile devices.
- Perform load testing using tools like JMeter to simulate high data transactions.
- Conduct security testing to identify potential vulnerabilities.

6. Test Data:

- Use real and dummy data for items, stock levels, suppliers, and transactions.
- Test accounts with different user roles (admin, staff).

7. Risks and Assumptions:

- **Risk:** Changes in the inventory structure may affect automation scripts.
- **Risk:** Mobile app updates could introduce compatibility issues.
- **Assumption:** Test data closely matches real-world usage scenarios.

8. Deliverables:

- Detailed test reports summarizing test results, defects found, and performance metrics.
- Documentation of test cases, procedures, and configurations.
- Recommendations for improvements and fixes.

Test Plan

To ensure the proper functionality of the inventory control system, we will test its individual features as outlined below:

1. **Inventory Management**
2. **Supplier Management**
3. **User Permissions**
4. **Reporting**
5. **Notifications and Alerts**

1 – Testing the Inventory Management Module

- Verify users can add a new item to the inventory.
- Verify users can update stock levels accurately.
- Verify the system alerts when stock reaches a reorder point.
- Verify users can delete items and adjust inventory for returned goods.
- Verify items are categorized properly and searchable.

2 – Testing the Supplier Management Module

- Verify users can add new suppliers with correct contact details.
- Verify users can update supplier details.
- Verify the system tracks supplier order history.
- Verify users can generate purchase orders for suppliers.

3 – Testing User Permissions

- Verify different access levels for users (admin, manager, staff).
- Verify that only authorized users can add, modify, or delete inventory.
- Verify that restricted users cannot access sensitive data (like supplier financials).
- Verify that users can change their password and manage their profile.

4 – Testing Reporting Functionality

- Verify users can generate inventory reports (e.g., current stock levels, out-of-stock items).
- Verify the system generates reports for a specified date range.
- Verify users can download and print reports.
- Verify the accuracy of reports by comparing data with actual inventory.

5 – Testing Notifications and Alerts

- Verify the system sends notifications when stock reaches a low level.
- Verify the system alerts the admin when an order is delayed.
- Verify users can configure alert settings (e.g., email, SMS).
- Verify that all notifications are logged for auditing purposes.

Test Cases Table:

Test Category	Test Case ID	Test Case Description	Precondition	Test Steps	Expected Result	Test Type	Priority
Home Page	TC_HP_001	Verify that the home page is displayed after a successful login.	Valid login credentials.	1. Login with valid credentials. 2. Check if redirected to the home page.	User is successfully redirected to the home page.	Functional	High
	TC_HP_002	Verify that the user's name is displayed on the home page.	Valid login credentials.	1. Login with valid credentials. 2. Check for the username at the top-right corner.	Username is displayed correctly.	Functional	Medium
	TC_HP_003	Verify that the home page works across multiple browsers (Chrome, Firefox, Safari, Edge).	Valid login credentials.	1. Open URL in various browsers. 2. Verify that the home page loads correctly.	The home page is displayed correctly on all browsers.	Non-functional (Cross-browser)	Medium
	TC_HP_004	Verify that inventory summary (total stock, low stock warnings, etc.) is displayed on the home page.	Valid user login.	1. Login to the system. 2. Check for inventory summary details on the home page.	Inventory summary matches the actual stock data.	Functional	High
	TC_HP_005	Verify search functionality for inventory items	Valid user login.	1. Use search bar to search for	Search results are	Usability	High

Test Category	Test Case ID	Test Case Description	Precondition	Test Steps	Expected Result	Test Type	Priority
		on the home page.		inventory by name, SKU, or category. 2. Verify the displayed results.	relevant to the query.		
Login & Authentication	TC_L_001	Verify login with valid username and password.	Valid username and password.	1. Enter valid credentials. 2. Click on "Login."	User is logged in and redirected to the dashboard.	Functional	High
	TC_L_002	Verify login with an invalid username and valid password.	Invalid username and valid password.	1. Enter invalid username. 2. Click "Login."	Error message is displayed: "Invalid credentials."	Functional	Medium
	TC_L_003	Verify login with a valid username and invalid password.	Valid username and invalid password.	1. Enter valid username and invalid password. 2. Click "Login."	Error message is displayed: "Incorrect password."	Functional	Medium
	TC_L_004	Verify password reset functionality.	User with a valid registered email.	1. Click "Forgot Password." 2. Enter registered email. 3. Check for reset link email.	Reset link is sent to the user's email address.	Functional	Medium
Inventory Management	TC_IM_001	Verify the addition of new items to the inventory.	Admin user rights.	1. Navigate to "Add New Item." 2. Fill in item details.	New item is added to the inventory.	Functional	High

Test Category	Test Case ID	Test Case Description	Precondition	Test Steps	Expected Result	Test Type	Priority
				3. Click "Save."			
	TC_IM_002	Verify that existing inventory items can be updated.	Admin user rights.	1. Select an existing item. 2. Modify details. 3. Click "Save."	Item details are updated.	Functional	High
	TC_IM_003	Verify that inventory quantities are reduced after a sales order is placed.	Item in stock.	1. Place a sales order. 2. Verify the updated stock levels.	Inventory quantity is reduced accordingly.	Functional	High
	TC_IM_004	Verify that low stock alerts are generated when inventory falls below a threshold.	Item stock below threshold.	1. Set inventory below threshold. 2. Check for low stock alert.	Low stock alert is displayed.	Functional , Regression	High
	TC_IM_005	Verify that items can be removed from the inventory.	Admin user rights.	1. Select an item. 2. Click "Remove" and confirm.	Item is successfully removed.	Functional	Medium
Order Management	TC_OM_001	Verify creation of a new sales order.	Valid inventory items.	1. Navigate to "Create Sales Order." 2. Add items. 3. Confirm the order.	Sales order is successfully created.	Functional	High
	TC_OM_002	Verify that a purchase order	Valid supplier and items.	1. Navigate to "Create Purchase	Purchase order is	Functional	High

Test Category	Test Case ID	Test Case Description	Precondition	Test Steps	Expected Result	Test Type	Priority
		can be generated.		Order." 2. Select items. 3. Confirm the order.	successfully created.		
	TC_OM_003	Verify that order statuses update correctly (e.g., "Pending," "Shipped").	Valid order.	1. Place an order. 2. Change order status. 3. Verify the updated status.	Status is updated accordingly.	Functional	Medium
	TC_OM_004	Verify that users can view order history.	Valid user login.	1. Navigate to "Order History." 2. Filter past orders by date or customer.	Order history is displayed correctly.	Usability	Medium
Reports & Analytics	TC_RA_001	Verify that users can generate stock level reports.	Valid inventory data.	1. Navigate to "Reports" and select "Stock Levels." 2. Generate report.	Stock level report is generated accurately.	Functional	Medium
	TC_RA_002	Verify that users can generate sales reports.	Valid sales data.	1. Navigate to "Reports" and select "Sales Report." 2. Choose time frame. 3. Generate report.	Sales report is generated accurately.	Functional	Medium
	TC_RA_003	Verify that users can	Generated report.	1. Select report.	Report is exported	Functional	Medium

Test Category	Test Case ID	Test Case Description	Precondition	Test Steps	Expected Result	Test Type	Priority
		export reports in CSV or PDF formats.		2. Export in desired format (CSV or PDF).	successfully in chosen format.		

Evaluation Parameter	Max. Marks	Marks Awarded
Observation	20	
Implementation	40	
Output	10	
Viva	10	
Record	20	
Total Marks	100	

Result:

Thus, the test plan and the test cases for testing an inventory control system were successfully designed and validated for the Inventory Control System.