

# Amazon Website Automated Testing Assignment

## Objective:

Design and execute automated tests for key functionalities of the Amazon.com website, using the Page Object Model (POM) approach. This assignment emphasizes efficiency, coverage, and accuracy in testing, with a specific focus on employing POM for better maintainability and readability of test scripts.

### 1. Automated Test for User Login Process:

Use Case: Test the login process for both valid and invalid scenarios.

#### Tasks:

- Create automated scripts to input valid and invalid usernames and passwords.
- Verify that successful logins redirect to the homepage and unsuccessful attempts lead to an error message.
- Test for edge cases like empty fields or special characters in credentials.

### 2. Automated Search Functionality Test:

Use Case: Test the product search functionality with various keywords.

#### Tasks:

- Develop scripts to enter different search terms and validate the search results.
- Ensure that the results match the search criteria and include tests for no-result scenarios.
- Test the response time and relevance of search results.

### 3. Automated Test for Adding Products to the Shopping Cart:

Use Case: Verify the process of adding items to the shopping cart and updating quantities.

#### Tasks:

- Automate the selection of different products and add them to the shopping cart.
- Test updating item quantities and verify the cart updates correctly (total price, item count).
- Include scenarios where items are removed or sold out.

### 4. Automated Checkout Process Test:

Use Case: Test the checkout process, including address selection and payment method simulation.

#### Tasks:

- Script the entire checkout process from the shopping cart to the final order confirmation page.
- Test different shipping addresses and payment methods, including error handling for invalid details.
- Validate the order summary and final confirmation step.

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### Tools and Frameworks:

- Implement your tests using a popular test automation framework like Selenium, Cypress, or similar.
- Ensure all test cases are structured around the Page Object Model for better code organization and maintenance.
- Document each step and rationale for your POM structure and choice of test cases.

### Deliverables:

- Automated Test Scripts: Well-documented and structured scripts for the outlined use cases.
- Test Execution Report: Detailed report of test executions, including pass/fail status and any discrepancies noted.
- Error Logs: Collect and provide logs of any errors or issues encountered during test execution.
- Best Practices Documentation: A brief document outlining the best practices followed during the testing process.