

Business Requirements

- **User Authentication Testing:**

Requirement: Validate the accuracy and security of user authentication processes during login.

Business Impact: Ensures that user accounts are protected, and unauthorized access is prevented.

- **Homepage Functionality Testing:**

Requirement: Verify the correct redirection to the Amazon homepage after successful login.

Business Impact: Ensures a smooth user experience by confirming proper navigation within the application.

- **Search and Product Selection Testing:**

Requirement: Automate tests for searching products, selecting items from categories, and adding them to the cart.

Business Impact: Validates the core functionality of product search and selection, enhancing user satisfaction.

- **Wish List Management Testing:**

Requirement: Automate tests for adding and managing items in the user's wish list.

Business Impact: Ensures that users can easily track and plan for future purchases, improving user engagement.

- **Cross-Browser Compatibility Testing:**

Requirement: Perform automated tests across major web browsers (Chrome, Firefox, Safari, etc.).

Business Impact: Guarantees a consistent user experience across different browsers, capturing a broader user base.

- **Security and Compliance Automation:**

Requirement: Implement automated tests to validate security measures and ensure compliance with data protection regulations.

Business Impact: Mitigates security risks and ensures adherence to legal and industry standards.

- **Test Automation Framework:**

Requirement: Develop and maintain a comprehensive test automation framework covering login, navigation, search, and other critical functionalities.

Business Impact: Accelerates testing processes, identifies defects early, and improves overall software quality.

- **Integration with Version Control (Git):**

Requirement: Integrate test automation with version control systems (e.g., Git) for effective code management.

Business Impact: Enhances collaboration among development and testing teams, ensuring version consistency.

- **Cross-Device Testing:**

Requirement: Automate tests to ensure compatibility across various devices (desktop, mobile, tablet).

Business Impact: Delivers a consistent user experience on different devices, catering to diverse user preferences.

- **Performance and Scalability Testing:**

Requirement: Automate tests to assess the application's performance under various load conditions.

Business Impact: Identifies performance bottlenecks, ensures scalability, and maintains a responsive application.

- **Automated Report Generation:**

Requirement: Implement automated reporting to generate detailed reports after each test suite execution.

Business Impact: Provides stakeholders with insights into the application's health, facilitating informed decision-making.

These business requirements collectively aim to enhance the efficiency, reliability, and security of the Amazon application through comprehensive software automation testing.