**Test Plan – Task 1 :  
Amazon Cypress Assignment**

# 1. Overview

This document outlines the test plan for Task 1 of the Cypress automation project for the e-commerce website amazon.com. The objective is to get familiar with the website, validate key UI elements, and navigate to the Customer Service page.

# 2. Scope

This test plan covers the following UI validation and navigation scenarios on amazon.com:

* Navigating to <https://www.amazon.com>
* Validating visibility and functionality of the main menu tabs:
  + Free Shipping Zone
  + Today’s Deals
  + Prime Video
  + Buy Again
  + Registry
  + Gift Cards
  + Sell
  + Customer Service
* Navigating to the Customer Service page and validating the visibility and functionality of relevant support sections:
  + “Where is my stuff” section
  + “Track your package” link
  + “Managing Your Account” section
  + “View Your Gift Card Balance” link

Each scenario includes validation of element visibility, correct page redirection, and expected text content.

# 3. Out of Scope

The following types of testing are excluded from this test plan:

* **Performance Testing** – Load, stress, and scalability testing.
* **Data-Driven Testing (DDT)** – Parameterized tests with external test data.
* **Negative Testing** – Input validation and error-handling scenarios are not covered.
* **Security Testing** – Authentication, authorization, and data protection mechanisms.
* **Mobile Testing** – Responsive UI and functionality on mobile devices.
* **Accessibility Testing** – WCAG compliance and assistive technology support.
* **API Testing** – Direct validation of backend services and API endpoints.
* **Database Testing** – Data integrity and backend validation.
* **Localization/Internationalization Testing** – Language and region-specific content.
* **Cross-Browser Testing** – Testing in browsers other than Chrome.

# 4. Test Strategy

* - Cypress Desktop version will be used for testing
* Tests will be written in JavaScript
* Page Object Model (POM) will be used for structure
* Validations will include texts, visibility, and navigation
* **Allure report integration is supported for test result reporting**

# 5. Test Environment

- Browser: Chrome (via Cypress)  
- OS: Windows / Mac  
- Target URL: <https://www.amazon.com>

# 5. Test Cases

The following table outlines detailed test cases based on the Cypress automation implementation for Task 1, focusing on the Amazon main menu navigation and validations.

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | Description | Steps | Expected Result |
| TC-01 | Free Shipping Zone Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Free Shipping Zone' tab | User is navigated to a page displaying 'Free Shipping on International Top' |
| TC-02 | Today's Deals Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Today's Deals' tab | Page displays content including the text 'For you' |
| TC-03 | Prime Video Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Prime Video' tab | URL includes '/Amazon-Video/ |
| TC-04 | Buy Again Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Buy Again' tab | Page displays content including the text 'Your Orders' |
| TC-05 | Registry Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Registry' tab | Page includes the text 'Make your registry unique to you' |
| TC-06 | Gift Cards Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Gift Cards' tab | Page includes the text 'Amazon Gift Cards' |
| TC-07 | Sell Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Sell' tab | Page includes the text 'Sell with Amazon' |
| TC-08 | Customer Service Tab Navigation | 1. Ensure the tab is visible 2. Click the 'Customer Service' tab | Page includes the text 'Welcome to Amazon Customer Service' |
| TC-09 | Where is My Stuff Tab | 1. Click on the 'Where is my stuff' section | Page includes the text 'Track your package' |
| TC-10 | Track Your Package Navigation | 1. Click on the 'Track your package' link | Page includes texts 'tracking' and 'package' |
| TC-11 | Managing Your Account Tab | 1. Click on the 'Managing Your Account' section | Page includes the text 'Cancel Items or Orders' |
| TC-12 | View Your Gift Card Balance | 1. Click on 'View Your Gift Card Balance' link | Page displays 'You can view your Amazon.com Gift Card balance' |

# 7. Tools

- Cypress  
- Visual Studio Code  
- GitHub

# 8. Deliverables

- This test plan (Test Plan – Task 1)  
- Task 1 test code (uploaded to GitHub)

## 9. Risks & Mitigations

|  |  |
| --- | --- |
| Risk | Mitigation |
| Dynamic UI elements may break selectors | Use `data-testid` attributes if available, or use robust and resilient CSS selectors |
| Amazon UI changes may break test flows | Regularly review and update selectors to reflect UI changes |
| Bot detection may block automated scripts | Introduce execution delays and simulate human-like interactions (e.g., mouse movement, typing) |
| Test flakiness due to dynamic page loading | Use dynamic waits (e.g., `cy.contains`, `cy.get().should('be.visible')`) and increase timeouts |
| Tests may fail due to temporary site issues | Run tests during off-peak hours and allow retries for non-critical flows |
| Third-party content may load inconsistently | Avoid strict assertions on external elements or use conditional checks |
| Page sometimes loads partially without top tabs | Click the Amazon logo to reload the homepage before proceeding with tests |
| Puzzle or CAPTCHA may block automation | Occasionally access the site manually and solve the puzzle to restore access |

# 10. Entry Criteria The following conditions must be met before test execution begins:

* Cypress environment is fully set up and configured
* All required test scenarios are implemented and reviewed
* Target URL (<https://www.amazon.com>) is accessible and stable
* Required plugins (e.g., Cypress Allure plugin) are installed and configured
* Test data (if applicable) is prepared and available
* GitHub repository is initialized and ready to track test changes

# 11. Exit Criteria Testing will be considered complete when the following conditions are satisfied:

* All planned test cases have been executed at least once
* All critical and high-priority test cases have passed
* Any failed tests have been analyzed, and issues reported or resolved
* Allure report has been generated and reviewed
* Test results have been pushed to the GitHub repository
* No major blockers or regressions remain in the scope of the assignment