

TEST PLAN – BROWSERSTACK DEMO

1. Test plan identifier

- **Project Name:** BrowserStack Demo
- **Module Name:** End-to-End Application Flow (Login, Orders, Cart, Checkout)
- **Test Plan Version:** 1.0
- **Prepared By:** Sandeep Kumar
- **Date:** 24/12/2025

2. Objective

The objective of this test plan is to validate the **end-to-end user flow** of the BrowserStack Demo application, including **login, product selection, cart, checkout, and orders**. The goal is to ensure that all integrated functionalities work together as expected and provide a smooth and reliable user experience.

3. Scope of Testing

In Scope

- Login and authentication functionality
- Product Listing and product details
- Add to Cart functionality
- Cart drawer behavior
- Display of selected products in the cart drawer
- Checkout functionality
- Payment flow validation (UI and basic validation only)
- Order page loading
- Display of order details (Order ID, Product Name, Price, status, date and image)

- Search functionality
- Filtering orders by vendor

Out Scope

- Backend and database validation
- Performance Testing
- Security testing
- Admin functionality
- Third-party integration beyond UI validation

Automation Scope

In Scope (Automation):

- Login functionality
- Product listing and selection
- Add to cart
- Checkout flow
- Order history validation
- Basic UI validations

Out of Scope (Automation):

- Visual UI styling
- Cross-browser visual comparison
- Third-party payment gateway validation

4. Test items

- Login module
- Product listing page
- Product details page
- Cart drawer
- Cart functionality (Add to Cart, item display)
- Checkout page

- Order placement flow
- Order page
- Order list table
- Order details views
- Search functionality
- Filter functionality (by Vendor)

5. Test Strategy

Automated testing will be performed using Playwright to validate end-to-end workflows. Manual testing will be used only for exploratory and usability checks.

- Automation framework: **Playwright**
- Language: **JavaScript / TypeScript**
- Design Pattern: **Page Object Model (POM)**
- Test cases will cover the following scenarios:
 - Positive scenarios
 - Negative scenarios
 - UI and usability checks

Smoke Testing will be executed before detail testing to ensure that the critical functionalities of the application are working as expected.

All identified defects will be logged and tracked with appropriate severity and priority.

6.Types of Testing

The following types of testing will be conducted:

- Automated Smoke Testing
- Automated Functional Testing

- Automated Regression Testing
- Manual UI & Usability Testing

7. Testing Environment

Testing will be conducted in the following environment:

- **Application URL:** <https://bstackdemo.com/>
- **Browser:** Google Chrome, Mozilla Firefox, Microsoft Edge
- **Operating System:** Windows 10
- **Testing Type:** Automated & Manual Functional Testing

8. Enter and Exit Criteria

Entry Criteria

Testing will begin when the following conditions are met:

- Application URL is accessible
- Test Environment is stable
- Test cases are prepared

Exit Criteria

Testing will be considered complete when:

- All planned test cases are executed
- All identified defects are documented
- Test summary report is prepared and reviewed

9. Test Deliverables

The following deliverables will be produced during the testing process:

- Test Plan document
- Test Case document
- Test Execution Report
- Bug Report

- Test Summary Report
- Automation scripts
- Execution logs
- HTML test reports
- Screenshots captured on test failures

10. Defect Reporting Process

All identified defects will be reported and documented with the following details:

- Bug Title
- Description
- Test Environment
- Build version
- Component (if applicable)
- Severity
- Priority
- Steps to Reproduce
- Expected Result
- Actual Result
- Attachments (if applicable)

Defects will be tracked and managed using:

- Jira (for Tracking)
- Bug Report document

11. Roles and Responsibilities

The following roles are involved in testing:

Roles	Responsibilities
Tester	Create and execute test cases, identify defects, and report bugs with proper details.
Reviewer	Review test cases, test reports, and provide feedback or approval.

12. Risks and Mitigation

The following risks may impact testing and their mitigations are:

Risks	Mitigation
Application downtime	Resume testing once application becomes available.
Limited test data	Use available demo or simple test data.
UI changes	Update test cases and locators accordingly.
Locator changes	Use stable selectors (data-testid)
Test flakiness	Use explicit waits and retries
Environment instability	Retry failed tests and log failures

13. Test Schedule

The testing activities are planned as follows:

Activity	Duration
Test Plan Creation	1 Day
Test Case Creation	1 Day
Test Execution	1 Day
Bug Reporting	Same Day
Test Summary Report	1 Day
Automation Script Development	2 Days
Automation Execution	1 Day
Report Review	1 Day

14. Approvals

The test plan requires approval from:

Approval Type	Responsible Role
Test Plan Approval	Reviewer/QA Lead
Test Case Approval	Reviewer/QA Lead
Test Report Approval	Reviewer/QA Lead

15. Sign-Off

The following stakeholders have reviewed and approved the test activities and deliverables:

Role	Name	Signature	Date
Tester	Sandeep Kumar	Sandeep Kumar	24/12/2025
Reviewer	Sandeep Kumar	Sandeep Kumar	-
Project Owner	Sandeep Kumar	Sandeep Kumar	-