

006 Test Forge: Test Plan v1.0

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- **Date of Creation:** 04th JUN 2025
- **Software to be Tested:** [Rakuten](#)

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Introduction 🙌:

This test plan outlines the strategy and framework for automating the critical flows of [Rakuten](#) using Cypress with the Page Object Model (POM). The objective is to simulate and validate real-world e-commerce flows in a scalable and modular testing environment.

Test Plan ID: TP-2025-006

Objectives 🚀:

- Develop a robust and reusable Cypress automation framework.
- Validate critical user flows in Rakuten.
- Ensure high reliability, test accuracy, & maintainability for long-term real-use scenarios.

Testing Scope 🧐:

This test plan focuses on automating the core functionalities of the website using Cypress and Page Object Model (POM). The objective is to validate key user interactions and ensure a seamless shopping experience.

In-Scope

The following functionalities will be covered in the automation testing framework:

- 🏠 Homepage Navigation
- 🔍 Store & Product Browsing
- 📄 Coupons & Cashback
- 🛒 Cashback Flow
- 👤 User Interactions & Account Functionality

Out of Scope

- Real transaction payments.
- Backend API validation.
- Actual redirection to affiliate shopping sites.

Approach 🧭:

The testing phase will follow a structured framework using Cypress & the POM. This ensures scalability, reusability, and ease of maintenance while validating critical user interactions.

Testing Methodology

- Manual Testing
- Automation Testing

Test Implementation Steps:

1. **Prepare Test Scenarios and Test Cases:** Well-documented test scenarios and test cases.
2. **Set Up Cypress Environment:** Install Cypress with required dependencies.
3. **Implement Page Object Model:** Structure test scripts using Cucumber + POM.
4. **Write and Execute Test Cases:** Develop reusable test cases for the required features.
5. **Test Execution & Reporting:** Run test cases, log results & generate reports for analysis.

Tools & Technologies Used:

- **Cypress:** Test automation framework.
- **JavaScript:** Test scripting language.
- **XMind:** Mindmap creation tool.
- **Microsoft Excel:** A tool to document testing reports.
- **Jira:** Tool for bug tracking and project management.

This approach ensures comprehensive automation coverage while maintaining efficiency.

Entry Criteria 🔑:

The following conditions must be met before starting test automation:

- **Test Environment Readiness:** Cypress is set up with dependencies installed.
- **Test Cases & Data Availability:** – Well-documented test cases & test data are available.

Exit Criteria ⬅️:

The following conditions must be fulfilled before concluding the testing phase.

- All test cases executed with documented results.
- Critical defects are resolved or logged for further action.
- The test summary report is submitted.

Test Environment 💻:

- **Devices:** Desktops, laptops, tablets, mobiles etc.
- **OS:** Windows 10, Windows 11, etc.
- **Browsers:** Chrome, Edge, Electron etc.
- **Network:** 50-75 Mbps Fibre, VPN Enabled.

Scheduling 📅:

Activities	Durations	Responsible Persons
Necessary Documentation & Manual Testing.	1 Day	Nazish Jehangir
Cypress Setup & POM Implementation	1 Day	Nazish Jehangir
Test Scripts Preparation & Execution.	1 Day	Nazish Jehangir
Debugging & Final Reporting	1 Day	Nazish Jehangir

Deliverables 📄:

- Test plan & necessary documentation.
- Folder structure with framework & POM files.
- Executable test cases with assertions.
- Bug report & summary report documents.

Roles & Responsibilities 👤:

Role	Assigned To	Responsibility/Assignment
Test Author & Reviewer	Nazish Jehangir	Coordinating the testing efforts.
Executor & Reporter	Nazish Jehangir	Executing automation scripts and reporting logs.

Risks & Assumptions ⚠️:

- Limited time for testing across all browsers and devices.
- Test execution failures due to network issues.
- Rakuten UI may change during test execution.
- Real-time cashback tracking cannot be verified.
- Third-party redirects may be blocked in test mode.

Assumptions 🛡️:

- Focus on the most commonly used browsers & devices.
- Execute in a reliable network environment to reduce network failures.
- The internet connection is stable & the test user accounts exist.
- Coupons and cashback flows are visible on the test run.

Sign Off/Conclusion 🏁:

This document formalises the academic Cypress test automation plan for Rakuten. Upon successful implementation, it will serve as a foundation for testing large-scale e-commerce platforms using scalable best practices e.g. POM, modular test design & Cypress execution.