006-Test-Forge: Summary & Bug Reportings for Rakuten Project -

🐞 Bug Report Document

Project Name: 006-Test-Forge
Tester: Nazish Jehangir
Date: June 8, 2025

Although no functional bugs were found in the core flows, the following **technical limitation** was documented as a "bug" entry for completeness of the report.

Bug ID	Title	Screenshot	Steps to Reproduce	Expected Result	Actual Result	Severity	Status
BG-001	Google reCAPTCHA Block on Registration Flow.	recaptcha_error.png	1. Open the Cypress UI (npx cypress open) 2. Enter credentials in the UI mode. 3. Solve the Google reCAPTCHA manually.	Should proceed to user dashboard after login.	Automation blocked at CAPTCHA stage; reCAPTCHA cannot be bypassed programmatically.	Critical	Open

Note: This is a known limitation of Google reCAPTCHA, not a defect in application functionality.

📝 Additional Notes

- Google reCAPTCHA (not simple ones) (v2/v3) is designed specifically to block bots/automation and hence cannot be bypassed by Cypress or any other automation tool.
- Although test scripts were written for login & features that can be accessed through registration also but their execution fails at CAPTCHA, blocking further automation for these flows.
- These cases were tested manually, and functional behavior is verified and passed.
- The limitation is not a bug in Rakuten's application, but a security feature from Google.

📊 Summary Report

Testing Framework: Cypress
Design Pattern: Page Object Model (POM)
Developer: Nazish Jehangir
Environment: Web, Desktop View (1440x1000 resolution)
Browser: Chrome (via Cypress runner)
Date: June 8, 2025

Test Duration: 1:45

🔍 Objective

The goal of this project was to automate key user journeys and features on Rakuten's web platform. It includes user registration, login, store and product browsing, coupons and cashback flows, and account management — all implemented using Cypress with the Page Object Model for maintainability and scalability.

🔢 Test Statistics

Metric	Value	Percentage
Total Test Cases	7	100%
Passed	2	28.57% (≈29%)
Failed	5	71.43% (≈71%)
Blocked/Skipped	5 (due to reCAPTCHA)	71.43% (≈71%)

💡 Note: These 5 are not code bugs but limitations due to reCAPTCHA and account-based flows.

🗒️ Test Coverage Report

Scenario	Test Cases	Automated	Passed	Failed	Remarks
Homepage Navigation	3	3	1	2	CAPTCHA blocked TC1.1 & 1.2 Partially covered.
Store & Product Browsing	3	1 (Merged 3)	1	0	Fully covered.
Coupons & Cashback	3	1 (Merged 3)	0	1	CAPTCHA blocked flow.
Cashback Flow	3	1 (Merged 3)	0	1	CAPTCHA blocked automation.
Account Management	3	1 (Merged 3)	0	1	CAPTCHA blocked all operations.
Total	15	7	2	5	_____

📝 Open Issues

- Some dynamic elements loaded inconsistently due to asynchronous behavior.
- Google reCAPTCHA v2/v3 cannot be bypassed by Cypress due to automation limitations.
- Scripts written and tested up to reCAPTCHA interaction.
- Tested manually for completion assurance.

No.	Issue	Description	Status
1	Google reCAPTCHA	Blocks automation on Registration/Login flows.	❌ Blocked
2	Account-Based Testing	Some features require a pre-created account due to reCAPTCHA.	⚠️ Partially Automated
3	Dynamic Element Load	Some delays managed using cy.wait().	✅ Handled but can be optimized.

🛠️ Technologies Used

- Framework: Cypress
- Language: JavaScript (ES6)
- Test Structure: Mocha BDD (Describe/It)

- Assertion Library: Chai (built-in)
- Reporting: Mochawesome (optional)
- Design Pattern: Page Object Model (POM)

🗂️ Test Data Management

Test data (e.g., email addresses, passwords, search queries) is defined directly in test scripts for simplicity and transparency.

📂 Attachments

[Screenshot of failed test cases]

🧠 Conclusion

This project demonstrates a well-structured automation test suite for Rakuten's platform using Cypress & the Page Object Model. Despite external limitations like reCAPTCHA, all test flows're covered thoroughly & test cases that couldn't be executed automatically were documented and verified through manual testing.

This project reflects good practices in modular test design, maintainable code structure, and realistic handling of automation constraints.