TEST PLAN DOCUMENT

Project Name:
E-commerce Website Testing – JCPenney (www.jcpenney.com)

Tester Name:
Mr. Rajeev Singh

Testing Duration:
From **14 July 2025** to **21 July 2025**

1. Introduction

This Test Plan outlines the testing strategy and scope for validating the functionality, usability, performance, security, and overall quality of the **JCPenney e-commerce website**. The goal is to ensure that the website functions as expected, provides a smooth user experience, and meets business requirements.

2. Objective

- To validate that users can browse, search, and purchase products successfully.
- To ensure key components like login, cart, checkout, filters, etc., work correctly.
- To confirm performance under load and protection from security threats.
- To identify and log bugs with proper severity and priority.

3. Scope of Testing

In Scope:

- Functional Testing (UI, Login, Cart, Search, Checkout)
- Usability Testing (User-friendly UI, accessibility)

- UI Testing (Layout, consistency, responsiveness)
- Performance Testing (Load/response time testing)
- Security Testing (SQL injection, brute force, etc.)
- Compatibility Testing (Chrome, Firefox, Edge, mobile browsers)
- Smoke and Regression Testing
- Sanity Testing

Out of Scope:

- Backend database performance
- Mobile app version of the site (if any)

4. Testing Types

Testing Type	Description
Functional Testing	Test key features: Login, Search, Add to Cart, Checkout
UI Testing	Validate layout, design, responsiveness
Smoke Testing	Verify basic features are working in each build
Regression Testing	Check that new changes don't break existing functionality
Security Testing	Test for vulnerabilities like SQL injection, brute force
Performance Testing	Validate page load speed, stress, and volume handling
Usability Testing	Check that site is user-friendly and intuitive

5. Test Environment

Component	Detail
URL	www.jcpenney.com
Browsers	Chrome, Firefox, Edge
Devices	Desktop, Mobile (Responsive Test)
Tools Used	Selenium, Burp Suite, JMeter, MS Excel

6. Test Strategy

Manual Testing

- Exploratory and planned test case execution
- Use test cases documented in Excel (linked/shared)

Automation Testing

- Selenium for smoke and regression scripts
- Focus on Login, Search, Add to Cart, Checkout flow

Performance Testing

- Tool: **Apache JMeter**
- Test login and search load under 50–100 virtual users
- Measure average response time and error %

Security Testing

- Tool: **Burp Suite Community Edition**
- Attempted SQL Injection, Brute Force Login, CAPTCHA check

7. Test Deliverables

- **Test Cases Document** (in Excel)
- **Bug Report** (with screenshots)
- **Screenshots or screen recordings** (as proof)

8. Roles and Responsibilities

Name	Role	Responsibility
Rajeev Singh	QA Tester (Intern)	Design, execute, and report tests

Pooja Yadav	QA Lead	Review bugs, reports, ensure coverage

9. Test Schedule

Date	Task
14 July	Setup environment, understand requirements
15 July	Manual testing of homepage, header, footer
16 July	Login, Search, Product Pages testing
17 July	Cart, Wishlist, Checkout test cases
18 July	UI validation + Smoke/Regression testing
19 July	Performance testing via JMeter
20 July	Security testing via Burp Suite
21 July	Bug fixing, Final Test Summary Report

10. Risk and Mitigation

Risk	Mitigation Plan
Site downtime during testing	Notify team; shift schedule if needed
Burp Suite/JMeter learning curve	Focused practice before execution

11. Entry & Exit Criteria

Entry Criteria:

- Website is live and accessible
- Functional requirements are shared
- Test data is prepared

Exit Criteria:

- All critical and high-severity bugs resolved
- All major test cases executed
- Test summary and defects report shared

12. Tools Used

- **Manual Testing** – MS Excel, Browser
- **Automation Testing** – Selenium + Java/TestNG
- **Security Testing** – Burp Suite (Community)
- **Performance Testing** – JMeter
- **Bug Reporting** – Excel, Screenshots
- **Screenshots/Notes** – Snipping Tool

13. Sample Bugs Found

Bug ID	Description	Priority	Severity	Status
BUG001	Homepage header shows "Sale Live" text, which shouldn't be visible	P2	Medium	Open
BUG002	"Forget Password" button not working	P1	High	Open
BUG003	Banner slider not auto-playing	P3	Low	Open

14. Conclusion

Testing was conducted from 14 to 21 July 2025 across all major modules. Functional, UI, Performance, and Security aspects were validated. Bugs were logged, and a final test summary was prepared for review.