**Test Strategy Document**

Project: Demo Web Shop – E-commerce Website

Prepared by: Team 2

Model Followed: Agile

# 1. Scope and Objectives

To test the functionality, performance, usability, and security of the Demo Web Shop application. Ensure key features like user registration, login, product browsing, cart, checkout, and payment are working correctly. Perform iterative testing in sprints as per Agile methodology.

# 2. Testing Approach

Testing will be conducted in sprint cycles (2 weeks each). Features will be tested as they are developed (continuous integration/testing). Testing types covered:

- Functional Testing

- UI/UX Testing

- Regression Testing

- Exploratory Testing

- Smoke & Sanity Testing

- Cross-browser Testing

# 3. Test Levels

- Unit Testing – By developers

- Integration Testing – QA team once modules are integrated

- System Testing – End-to-end scenarios in staging

- Acceptance Testing – Done in UAT with business/user involvement

# 4. Test Environment

- Test Environment: QA and Staging environments identical to production

- Browsers: Chrome, Firefox, Edge (latest versions)

- Devices: Desktop & Mobile view (responsive testing)

- Data: Dummy users, test cards for payments, dummy products

# 5. Test Tools

- Test Case Management: TestRail / Excel

- Bug Tracking: JIRA / GitHub Issues

- Automation (future): Selenium WebDriver (Java/Python)

- Performance Testing (future): JMeter

# 6. Test Deliverables

- Test Strategy Document

- Test Plan (Sprint-wise)

- Test Scenarios and Test Cases

- Bug Reports

- Sprint-wise Test Summary Reports

# 7. Entry Criteria

- User Story is defined and development is complete

- Build is deployed to test environment

- Test data is prepared

# 8. Exit Criteria

- All planned test cases executed

- No major or critical bugs open

- Regression cycle passed

- Test Summary Report is shared

# 9. Roles and Responsibilities

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| Role | Responsibility |
| QA Tester | Prepare and execute test cases, report bugs |
| QA Lead | Review test strategy and reports |
| Developer | Fix reported bugs and perform unit testing |
| Product Owner | Validate acceptance criteria during UAT |

# 10. Risks and Mitigation

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| Risk | Mitigation |
| Changing requirements mid-sprint | Frequent communication and daily stand-ups |
| Delayed builds | Follow CI/CD best practices |
| Limited test data | Use test data generation tools/scripts |

# 11. Communication Plan

- Daily Stand-ups for test progress and blockers

- Sprint Review Meetings after each sprint

- Collaboration via Slack, JIRA comments, or email