Test Plan – Automation Exercise (Project Management Module)

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1. Project Overview

This test plan outlines the testing strategy and scope for the **Automation Exercise website – Project Management Module**. This application allows users to perform core eCommerce activities like signing up, logging in, searching for products, adding items to a cart, completing checkout, contacting support, and logging out.

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2. Objectives

- To verify the functionality of all major user workflows such as signup, login, product search, cart management, and checkout.
- To ensure the accuracy of data flow between screens and forms.
- To validate UI elements including forms and buttons across different modules.
- To identify and log bugs early in the testing cycle.

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3. Features to be Tested

- Signup Functionality
- Login Functionality
- Search Product
- Add Product to Cart
- Checkout and Payment
- Contact Us Form Submission
- Logout Functionality

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4. Features Not to be Tested

- Integration with real payment gateways
- Back-end database validation
- Email/SMS notification services
- Cross-browser compatibility (beyond defined scope)

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5. Test Scope

- **In-Scope:**
  (i) UI Testing
  (ii) Functional Testing
  (iii) Regression Testing
  (iv) Manual Execution
  (v) API Testing using Postman

- **Out-of-Scope:**
  (i) Performance Testing
  (ii) Load and Stress Testing
  (iii) External system integration

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6. Test Approach

- **Manual Testing**: Used for initial test case execution, UI validation, and exploratory testing.
- **Automation Testing**: Selenium (or Playwright, as applicable) is used to automate repetitive flows such as login, search, add to cart, and checkout.
- **API Testing**: Performed using **Postman,** Includes assertions for status codes, response times, and data structure.

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7. Test Deliverables

- Test Plan document (this file)
- Manual Test Cases (Excel)
- API Test Collections(Postman)
- Postman Test Reports (HTML or screenshots)
- Bug Reports (PDF)
- Final Test Summary Report(PDF)

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8. Test Environment

- **Browsers**: Chrome (latest), Firefox
- **OS**: Windows 10+
- **Tools**:
    (i) Excel (for manual cases)
    (ii) GitHub (for script storage)

9. Entry Criteria

- Functional requirements are signed off
- Test environment is set up
- Test data is prepared
- Initial build is deployed and stable

10. Exit Criteria

- All **P0** and **P1** test cases passed
- No open **Critical** or **Blocker** defects
- All test cases executed and documented
- Final test summary report submitted

11. Tools Used

- Microsoft Excel (Manual Testing)
- Postman (Api testing)
- Excel /Pdf (Bug Report)
- Chrome, Firefox (Browser)

12. Timeline

Phase	Activities	Duration	Tentative Dates
1. Test Planning	Define scope, objectives, responsibilities, tools	1 day	Day 1
2. Test Case Design	Design manual test cases for UI & API	2 days	Day 2 – Day 3
3. Environment Setup	Configure Postman, browsers (Chrome, Firefox)	0.5 day	Day 3 (afternoon)
4. Test Execution – UI	Run test cases: Signup, Login, Search, Cart, etc.	2 days	Day 4 – Day 5

5. Test Execution – API	Test core APIs (Login, Search, Add to Cart, etc.)	1 day	Day 6
6. Defect Handling	Log bugs, communicate with devs, retest after fixes	1–2 days	Day 6 – Day 7
7. Reporting	Prepare Test Summary Report with evidence	1 day	Day 8