Test Plan for E-Commerce Product Management Module

1. Test Plan Identifier

TP-ECOM-001 — E-Commerce Product Management QA Test Plan

2. Introduction

This test plan outlines the strategy, scope and tentative timeline for testing the product management module of an e-commerce platform that support CURD operation both web UI and RESTful APIs.

3. Scopes

- Functional testing of product management operations: Create, Read, Update, Delete.
- UI flow testing on https://automationexercise.com.
- API testing using endpoints from https://fakestoreapi.com.

4. Objectives

- Ensure that all product management features work as intended.
- Validate both positive and negative use cases.
- Identify any usability or functional defects.
- Evaluate API performance, status codes, and response structure.

5. Assumptions

- The testing environment and test data are available and accessible.
- No major UI or backend changes will occur during the testing cycle.
- APIs are stable and follow RESTful conventions as per the provided documentation.

6. Testing Types

- **Functional Testing** – To validate expected operations.
- **UI Testing** – To ensure user interface behavior is correct and user-friendly.
- **API Testing** – Using Postman to validate endpoints, status codes, data formats.

7. Entry Criteria

- UI and API are fully developed and deployed.
- API documentation is available.
- Access credentials are provided.
- Tester needs created test data.

8. **Exit Criteria**

- All test cases have been executed.
- All critical and major bugs are reported and assign to the developers.
- Summary report is completed and submitted.

9. **Tools Used**

- **Browser** – Chrome
- **Postman** – for API testing.
- **Excel, Word** – for documentation.
- **Cypress** – for automation

10. **Timeline**

Phase	Start Date	End Date	Deliverables
Test Planning	24 June 2025	24 June 2025	**Test Plan PDF**
Manual Test Case Design	25 June 2025	25 June 2025	**Test Cases in Excel**
Manual Execution (UI)	26 June 2025	26June 2025	**Execution Report**
API Testing	26 June 2025	26 June 2025	**Postman Collection**
Bug Reporting	27 June 2025	27 June 2025	**Bug Report**
Summary Report	27 June 2025	27 June 2025	**Summary PDF**
Automation Testing (Optional)	27 June 2025	27 June 2025	**Automation Code**
Final Submission	27 June 2025	27 June 2025	**GitHub Link**

11. **Deliverables**

- Test Plan (this document)
- Manual Test Cases (Excel)
- Postman Collection for API testing
- Screenshots/exports of API test results
- Bug Reports
- Summary Report
- README file for guidance
- (Optional) Automation files