4. Test Plan Creation

Create a test plan for a new e-commerce web site which has following features:

- **Multiple payment methods**

- **Shipping options and address management**

- **Order summary and review**

- **Order confirmation and receipt generation**

Test Plan Title: E-commerce Website Testing

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1. Introduction

This test plan aims to validate the functionality, performance, and usability of the e-commerce website, ensuring it meets business requirements and delivers a seamless user experience.

2. Testing Resources

Tester's Name and Role:

Test Manager: Coordinates overall testing strategy and reporting.

Test Analysts: Responsible for creating and executing test cases and documenting defects.

Automation Engineers: Develop and maintain automated test scripts.

Developers: Fix defects identified during testing.

3. Scope of Testing

In Scope:

Functional testing of all e-commerce features.

Integration testing with third-party payment gateways.

UI/UX testing for user interactions.

Performance testing for transaction smoothness.

Out of Scope:

Backend database performance.

Non-eCommerce-related features like account management and product browsing.

4. Testing Approaches

Testing Approach and Methodology:

Manual Testing: For exploratory testing and complex user scenarios.

Automated Testing: For repetitive tasks such as payment processing and order placement using Selenium or Cypress.

Types of Testing to be Performed:

Functional Testing: Ensures each feature functions according to specifications.

Integration Testing: Verifies seamless integration of components like payment gateways.

User Acceptance Testing (UAT): Engages end-users to validate the system.

Performance Testing: Evaluates behavior under load conditions.

Regression Testing: Re-tests existing functionality after updates.

5. Test Schedule

Timeline for Each Testing Phase:

Test Planning: 1 week

Test Case Development: 2 weeks

Test Execution: 3 weeks

Bug Fixing and Re-testing: 2 weeks

UAT: 1 week

Total Duration: 9 weeks

6. Risks & Issues

Risks Associated with the Testing Process:

Delay in third-party payment gateway integration.

High volume of transactions causing performance issues.

Mitigation Strategies for Identified Risks:

Use mock services for initial testing of payment integration.

Conduct early performance testing and tuning.