TEST PLAN

Project Name: ProtoCommerce

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Date: 20-03-2025

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1. Introduction

The objective of this test plan is to conduct end-to-end manual testing on the Rahul Shetty Academy AngularPractice website to ensure its functionality, usability, and reliability.

AUT: https://rahulshettyacademy.com/angularpractice/#

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2. Objectives

- Ensure the functionality of key features such as user authentication, messaging, notifications, and profile management.
- Validate compatibility across different browsers and devices.
- Identify and fix usability, security, and performance issues.

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3. Scope

This test plan covers:

- **Functional Testing**: Ensuring all features work as expected.
- **Compatibility Testing**: Verifying functionality across multiple browsers and devices.
- **Security Testing**: Identifying potential vulnerabilities.
- **Performance Testing**: Measuring website responsiveness and scalability.

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4. Testable Features

- Home Page
- Registration Form
- Login Page
- Product Purchase Flow
- Cart Functionality
- Contact Form
- Navigation and Footer Links
- Search Functionality
- Payment Gateway
- Logout Feature
- Responsive Testing

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5. Testing Approach

Testing Types

- Functional Testing
- Compatibility Testing
- Security Testing
- Performance Testing
- UI/UX Testing
- Regression Testing
- User Acceptance Testing (UAT)
- End-to-End Testing

Testing Methodologies

- Black-box Testing
- White-box Testing
- Exploratory Testing

Testing Environment

- **Environments**: UAT, Pre-Production
- **Operating Systems**: Windows 10+, macOS, iOS, Android
- **Browsers**: Chrome, Firefox, Safari, Edge
- **Testing Tools**: Selenium, TestNG, Postman, JMeter

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6. Roles/Responsibilities

Name	Role	Responsibilities
Kartik Sharma	Test Manager	Manage test resources, ensure test plan execution, report progress.
Kartik Sharma	Test Lead	Develop test strategies, assign tasks, review test results.
Kartik Sharma	Test Engineer	Write and execute test cases, report defects, automate testing.
Kartik Sharma	Test Engineer	Develop and maintain automation scripts.

7. Test Schedule

Task	Time Duration
Test Plan Creation	20-03-2025
Test Scenario Creation	20-03-2025
Test Case Creation	20-03-2025
Summary Report Submission	20-03-2025

8. Test Deliverables

Deliverable	Description	Owner	Completion Date
Test Plan	Outlines the testing approach and scope	Rashmi Ninawe	20/03/2025
Test Cases	Functional and compatibility test cases	Rashmi Ninawe	20/03/2025
Defect Report	Description of defects found	Rashmi Ninawe	20/03/2025

9. Entry & Exit Criteria

Entry Criteria

- Testable requirements are available.
- Application is ready for testing.
- Test environment is set up.

Exit Criteria

- All test cases executed.
- All critical defects fixed and retested.
- Test Summary Report prepared.

10. Tools

- **Test Management**: JIRA, TestRail
- **Automation**: Selenium, TestNG, JUnit
- **API Testing**: Postman, Rest Assured
- **Performance Testing**: JMeter
- **Collaboration**: Microsoft Teams

11. Risks and Mitigation Plans

Risk	Mitigation Plan
Lack of Automation Testers	Backup resource planning
Undefined Requirements	Subject matter expert discussions
Browser Compatibility Issues	Early compatibility testing
Performance Issues	Load testing with JMeter

12. Approvals

Kartik Sharma will submit the following documents for approval before proceeding:

- Test Plan
- Test Scenarios
- Test Reports

Testing will continue to the next phase only after approvals are received.