

# Test Plan

**Project Name:** ProtoCommerce

**Version:** ProtoCommerce

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## 1. Introduction

- **Purpose:** Test the functionality of the shopping process.
- **Project Overview:** It's a commercial electronic project for adult people so they can make their electronic shopping easily.
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## 2. Test Objectives

- Testing this website to ensure that shopping process is working properly and perfect UI/UX for the user.

## 3. Scope

- Elements and alerts in the Home page.
- Shopping process in the shop pages.

## 4. Test Strategy

- Implementation of UI web automation testing.

## 5. Test Deliverables

- Excel sheet with detailed test cases
- Automate all test cases using Cypress.

## **6. Test Environment**

- Laptop: Dell
- Processor: Intel(R) Core(TM) i7-8665U CPU @ 1.90GHz 2.11 GHz
- RAM: 32.0 GB
- System Type: 64-bit operating system, x64-based processor
- Windows: 10 Enterprise
- Version: 20H2
- OS build: 19042.2965
- Browser: Chrome

## **7. Entry and Exit Criteria**

- Entry Criteria: Chrome browser installed and features on Home and Shop pages are done from dev side.
- Exit Criteria: Shopping process is working properly.

## **8. Test Schedule and Timeline**

- Detailed Test Cases to ensure good coverage by manual and automation, implemented in 5 days.

## **9. Resources**

- Testers: one tester
- Testing Tool: Cypress using JavaScript

## **10. Risks and Contingency Plans**

### **1. Lack of Test Data:**

- Risk: Insufficient or inaccurate test data can hinder testing efforts.
- Contingency Plan: Generate synthetic test data or request production-like data. Use data masking and anonymization techniques to protect sensitive information.

## 2. Change in Requirements:

- Risk: Requirements may change during the testing phase.
- Contingency Plan: Maintain open communication with stakeholders to quickly address changing requirements. Implement a change management process to evaluate and incorporate changes into the testing scope.

## 3. Unavailability of Test Environment:

- Risk: Delays due to unavailable or unstable test environments.
- Contingency Plan: Create a dedicated test environment, or schedule testing during non-peak hours. Use virtualization and containerization to replicate environments.

## 4. Incomplete Test Coverage:

- Risk: Not covering all necessary test scenarios.
- Contingency Plan: Review and update test cases to ensure comprehensive coverage. Use risk-based testing to prioritize critical scenarios.

## 5. Resource Shortages:

- Risk: Insufficient personnel or tools for testing.
- Contingency Plan: Allocate additional resources or cross-train team members. Consider outsourcing some testing tasks if necessary.

## 6. Integration Issues:

- Risk: Integration problems with third-party systems or services.
- Contingency Plan: Conduct thorough integration testing and establish clear communication channels with third-party providers. Plan for fallback mechanisms if integrations fail.

## 7. Test Tool Failures:

- Risk: Test automation tool failures or compatibility issues.
- Contingency Plan: Have backup tools or scripts ready. Maintain regular updates and compatibility checks for test automation tools.

#### 8. Data Security and Privacy Concerns:

- Risk: Exposure of sensitive data during testing.
- Contingency Plan: Implement data anonymization and encryption techniques. Ensure compliance with data protection regulations like GDPR.

#### 9. Regression Test Delays:

- Risk: Delays in regression testing due to frequent code changes.
- Contingency Plan: Implement continuous integration (CI) and continuous testing to catch defects early. Prioritize critical regression tests.

#### 11. Test Execution Strategy

- Excel sheet with detailed test cases and test data.
- All test cases will be automated using Cypress.

#### 12. Test Reporting and Metrics

- All test cases will be documented in Excel sheet and bug will be documented on Jira management tool.
- All automated test cases will be shared on GitLab.

#### 13. Review and Approval

- Testing Manager
- Product Owner

#### 14. Test Plan Maintenance

- After every sprint, Test Plan will be updated.