Test Plan Identifier
TP-AE-001

Name of the Product
Automation Exercise – E-Commerce Web Application

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INTRODUCTION

This Test Plan describes the overall testing approach, objectives, scope, resources, responsibilities, and schedule for testing the Automation Exercise e-commerce web application.
The purpose of this document is to act as a **reference and communication tool** for all testing activities and to ensure that the application meets functional and quality expectations before release.
The Automation Exercise application provides functionalities such as user registration, login, product search, product viewing, cart management, and checkout. Testing will validate that these features function correctly, are user-friendly, and meet the expected requirements.

TEST ITEMS

The following test items are included in this testing effort:
- Automation Exercise Web Application
- User Registration Module
- Login and Logout Module
- Product Search Module
- Product Details Page
- Add to Cart Module
- Checkout / Order Placement Module

Application URL: https://automationexercise.com

FEATURES TO BE TESTED

The following features and their combinations will be tested:
- User registration with valid and invalid data
- Login using valid and invalid credentials
- Logout and session handling

- Product search using keywords
- Viewing product details such as name, price, and description
- Adding products to cart
- Updating cart quantity and viewing cart summary
- Checkout process and order confirmation

FEATURES NOT TO BE TESTED

The following features are excluded from the scope of testing:
- Real-time payment gateway validation
- Backend database testing
- Load, stress, and performance testing using tools
- Security penetration testing

These features are excluded due to demo application limitations.

APPROACH

The testing of the Online Shopping Application (Automation Exercise Demo) will be carried out using a combination of **manual and basic automation testing** to ensure all functional and non-functional requirements are met. The approach includes the following steps:

1. **Requirement Analysis:** All functional and non-functional requirements will be identified by analyzing the application's features and behavior.
2. **Test Scenario Identification:** High-level test scenarios will be created for each module to ensure **complete coverage** of all critical functionalities.
3. **Test Case Design:** Detailed test cases will be developed from the test scenarios, including positive, negative, and boundary conditions.
4. **Manual Testing Execution:** Test cases will be executed manually to validate the correctness and usability of the application.
5. **Defect Reporting and Tracking:** All defects found during testing will be logged and tracked in Excel for resolution.
6. **Regression Testing:** After defect fixes, regression testing will be performed to ensure that the application still functions correctly.
7. **Automation Testing:** Basic automation scripts will be implemented using Selenium with Java for critical workflows, including login, search, add to cart, and checkout processes.

This approach ensures systematic, thorough testing of the application while maintaining traceability from requirements to test cases, and allows reusability of test cases for future testing cycles.

TEST DELIVERABLES

The following documents and artifacts will be produced during the testing lifecycle:
- Test Plan Document
- Test Cases Document (Excel)
- Defect / Bug Report
- Automation Test Scripts
- Execution Screenshots
- Test Summary and Closure Report

TESTING TASKS

The major testing tasks include:
- Requirement Analysis
- Test Planning
- Test Case Design

- Test Case Review
- Test Case Execution
- Defect Reporting and Tracking
- Regression Testing
- Automation Script Development
- Test Reporting and Closure

ENVIRONMENTAL NEEDS

The testing environment required for this project includes:
- **Operating System:** Windows
- **Browser:** Google Chrome
- **Automation Tool:** Selenium WebDriver
- **Programming Language:** Java
- **IDE:** Eclipse
- **Test Management Tool:** Excel
- **Internet Connection:** Required

ROLES AND RESPONSIBILITIES

Role	Responsibilities
QA Tester	Requirement analysis, test planning, test case design, execution, defect reporting, regression testing, automation testing, and reporting

SCHEDULE

Activity	Duration
Test Planning	1 Day
Test Case Design	3 Days
Test Execution	3 Days
Defect Reporting	2 Days
Automation Testing	3 Days
Test Reporting	1 Day

ENTRY AND EXIT CRITERIA

Entry Criteria

Testing for the Online Shopping Application will begin only after the following conditions are met:
1. The application under test (Automation Exercise demo) is accessible and stable.
2. The test environment is set up and ready, including the browser, Selenium setup, IDE (Eclipse), and test data.
3. All test cases have been designed, reviewed, and approved.
4. Required tools for defect tracking and test execution (Excel, Selenium WebDriver) are available.
5. All team members and resources are assigned and prepared for testing.
6.

Exit Criteria

Testing will be considered complete when the following conditions are satisfied:
1. All planned test cases have been executed.
2. All critical and high-severity defects have been resolved or logged for future releases.
3. Regression testing has been successfully performed for impacted modules.
4. Test results have been reviewed and approved by the QA team/project lead.
5. No major issues remain that block the application's core functionality.

Risk and Contingencies

Risks:
1. The demo website may be temporarily unavailable.
2. Some features may not work as expected (since it's a demo).
3. Limited time to test all modules.

Contingencies:
1. Retry test cases if the website is down.
2. Log any defects with screenshots for future reference.
3. Test critical features first if time is short.

APPROVALS

Name (IN CAPITAL LETTERS)	Signature	Date
ROSHNI R H		