### **Test Plan for Pet Store**

**1. Test Plan Identifier**

**TP-OCTOPERF-PETSTORE-FULLFLOW-001**

**2. References**

* OctoPerf PetStore Demo Application
* OctoPerf Documentation
* JMeter Test Plan Example

**3. Introduction**

This test plan outlines the validation of the full user journey in the OctoPerf PetStore application—from account registration to logging in, searching for items, adding products to the cart, and completing a purchase.

**4. Test Items**

* User Registration
* User Login
* Product Search
* Adding Products to Cart
* Order Checkout and Confirmation

**5. Software Risk Issues**

* Registration errors due to invalid input handling
* Login failures from session mismanagement
* Incomplete or irrelevant product search results
* Cart syncing problems under high traffic
* Issues during order placement or missing confirmation

**6. Features to be Tested**

* Valid new user registration
* Login with existing credentials
* Product search via keywords
* Adding items to the shopping cart
* Completing the checkout process
* Receiving a proper order confirmation

**7. Features Not to be Tested**

* Integration with external payment systems
* Post-order email notifications
* Mobile responsiveness across devices

**8. Approach**

* **Functional Testing**: Manual end-to-end flow validation
* **Automation Testing**: Selenium scripts from registration to order
* **Performance Testing**: JMeter simulations for concurrent users

**9. Item Pass/Fail Criteria**

* **Pass**: Users can complete the journey without issues
* **Fail**: Errors, interruptions, or UI crashes at any stage

**10. Suspension Criteria and Resumption Requirements**

* **Suspend Testing**: System outages or critical issues in key flows
* **Resume Testing**: Once issues are fixed and confirmed by development

**11. Test Deliverables**

* Test Plan Document
* Functional & Automation Test Cases and Scripts
* Test Execution Reports
* Defect Logs and Status Reports

**12. Remaining Test Tasks**

* Write test cases for all key flows
* Prepare both valid and invalid test data
* Complete Selenium script development

**13. Environmental Needs**

* **Hardware**: Desktop/laptop with stable internet
* **Software**: Chrome/Firefox, JMeter, Selenium WebDriver
* **Test Environment**: Full-access PetStore demo application

**14. Staffing and Training Needs**

* **Testers**: 2 QA engineers with experience in all test types
* **Training**: Overview of PetStore application workflows

**15. Responsibilities**

* **Test Lead**: Manage overall testing and coordination
* **QA Engineers**: Design/execute tests, report bugs
* **Developers**: Fix bugs and provide updates

**16. Schedule**

* **Test Planning**: April 26 – April 27, 2025
* **Test Case Creation**: April 28 – April 30, 2025
* **Test Execution**: May 1 – May 5, 2025
* **Bug Fixes & Retesting**: May 6 – May 8, 2025
* **Test Closure**: May 9, 2025

**17. Planning Risks and Contingencies**

* **Risk**: Incomplete registration flow
  + *Mitigation*: Early coordination with developers
* **Risk**: Selenium script failures from dynamic elements
  + *Mitigation*: Use resilient locators and waits

**18. Approvals**

* Test Lead
* Project Manager
* Client Representative

**19. Glossary**

* **Registration**: Creating a user account
* **Login**: User authentication
* **Search**: Finding products using keywords
* **Cart**: Temporary storage for selected items
* **Checkout**: Finalizing and placing an order
* **QA**: Quality Assurance