**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 is created to validate the complete customer journey in the OctoPerf PetStore application, starting from user registration through to login, searching for products, adding products to the shopping cart, and successfully placing an order.

**4. Test Items**

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

**5. Software Risk Issues**

Registration failures due to input validation issues  
 Login failures due to incorrect session management  
 Search functionality returning incomplete or irrelevant results  
 Cart synchronization issues during high load  
 Order placement errors or missing confirmation details

**6. Features to be Tested**  
 New user account registration with valid data  
 Login with registered credentials  
 Search for products using keywords  
 Adding searched products to the shopping cart  
 Completing the order checkout process  
 Receiving proper order confirmation

**7. Features Not to be Tested**  
 Third-party integrations (e.g., external payment gateways)  
 Email notifications after order placement  
 Mobile responsiveness across devices

**8. Approach**  
 Functional Testing: Manual testing of the entire user journey.  
 Automation Testing: Selenium automation for the registration to order flow.  
 Performance Testing: JMeter scripts to simulate multiple users performing the complete flow.

**9. Item Pass/Fail Criteria**  
 Pass: Users can register, log in, search, add products to the cart, and complete the purchase without errors.  
 Fail: Any critical interruption, incorrect redirection, error messages, or UI crashes in any step.

**10. Suspension Criteria and Resumption Requirements**  
 Suspension: Major system outages, critical failures in registration, login, or checkout process.  
 Resumption: Issue resolution and confirmation from the development team that services are restored.

**11. Test Deliverables**  
 Test Plan Document  
 Functional and Automation Test Cases and Scripts  
 Test Execution Reports  
 Defect Logs and Issue Status Reports

**12. Remaining Test Tasks**  
 Develop test cases for registration, login, search, add to cart, and checkout flows.  
 Prepare valid and invalid test data for user registration and product search.  
 Complete Selenium script development for automation testing.

**13. Environmental Needs**  
 Hardware: Standard desktop or laptop with stable internet access.  
 Software: Latest Chrome or Firefox browser, JMeter, Selenium WebDriver.  
 Test Environment: Access to OctoPerf PetStore demo application with full functionalities enabled.

**14. Staffing and Training Needs**  
 Testers: 2 QA engineers familiar with functional, performance, and automation testing.  
 Training: Brief training on OctoPerf PetStore application features and workflows.

**15. Responsibilities**  
 Test Lead: Manage testing activities and ensure coordination with the development and project management teams.  
 QA Engineers: Design and execute manual and automated test cases, report defects.  
 Developers: Fix reported defects and provide timely updates to QA.

**16. Schedule**  
 Test Planning: April 26 – April 27, 2025  
 Test Case Development: April 28 – April 30, 2025  
 Test Execution: May 1 – May 5, 2025  
 Defect Fixing and Retesting: May 6 – May 8, 2025  
 Test Closure: May 9, 2025

**17. Planning Risks and Contingencies**  
 Risk: Unavailability of complete user registration functionality.  
 Mitigation: Early validation and coordination with the development team.

Risk: Automation script failures due to dynamic element changes.  
 Mitigation: Implement flexible locators and robust waiting strategies.

**18. Approvals**  
 Test Lead  
 Project Manager  
 Client Representative

**19. Glossary**  
 Registration: Creating a new user account on the PetStore platform.  
 Login: Authentication process to access a registered account.  
 Search: Finding products by keyword input.  
 Cart: Temporary storage for items intended for purchase.  
 Checkout: Process of finalizing the purchase and placing an order.  
 QA: Quality Assurance.