**Test Environment Document for Online Retail Website Testing**

**Project:** Online Retail Website Testing  
**URL:** Demo Environment Link (To be provided)

**1. Introduction**

This document describes the setup and configuration of the **test environment** for the *Online Retail Website Testing* project. The environment includes the hardware, software, network, and data resources required to perform various testing activities effectively. Ensuring a stable and well-configured test environment is critical to achieving reliable test results.

**2. Test Environment Components**

**2.1 Hardware**

**Computers:**

* **Desktops/Laptops:**
  + **Windows:** Windows 10/11 systems with at least 8GB RAM, Intel i5/i7 processors, and 256GB SSD.
  + **macOS:** Devices with at least 8GB RAM, Intel i5/i7 or Apple M1/M2 processors, and 256GB SSD.

**Mobile Devices:**

* **Android:** Devices running Android OS version 8.0 (Oreo) and above.
* **iOS:** Devices running iOS version 12 and newer.

**Peripherals:**

* Required devices such as **printers**, **scanners**, and other input/output hardware as applicable for specific test cases.

**2.2 Software**

**Operating Systems:**

* **Windows:** Windows 10, Windows 11
* **macOS:** Catalina, Big Sur, Monterey
* **Linux:** Ubuntu 20.04, Ubuntu 22.04

**Web Browsers:**

* **Google Chrome** (latest stable version)
* **Mozilla Firefox** (latest stable version)
* **Safari** (latest stable version for macOS/iOS)
* **Microsoft Edge** (latest stable version)

**Testing Tools:**

* **Selenium** – For automation testing of web features
* **JMeter** – To assess performance and scalability
* **Bugzilla** – For issue/defect tracking
* **Postman** – For API validation and testing
* **Figma** – For reviewing UI/UX designs and mockups

**2.3 Network**

**Internet Connectivity:**

* A reliable and stable internet connection with at least **100 Mbps** bandwidth.

**Firewall Settings:**

* Firewalls configured to support secure testing operations without hindering communication.
* Specific rules added to enable access to external services like payment gateways.

**Security Settings:**

* Valid **SSL certificates** for HTTPS testing.
* **VPN access** configured for remote team members, ensuring secure connections.

**2.4 Data**

**Test Data:**

* **User Data:** Sample accounts for different roles (e.g., admin, customer)
* **Product Data:** A variety of products categorized with different prices, attributes, and inventory levels
* **Order Data:** Orders with diverse statuses (e.g., pending, shipped, completed, cancelled)
* **Payment Data:** Dummy credit card information and test payment gateways
* **Shipping Data:** Multiple sample addresses and shipping methods for various regions

**3. Test Environment Setup**

**3.1 Configuration Stages**

**Development Environment**

* **URL:** dev.retailproject.com
* **Purpose:** Used by developers and testers for early-stage testing and bug validation

**Test Environment**

* **URL:** test.retailproject.com
* **Purpose:** Primary environment for executing full test suites and performing functional, integration, and regression testing

**Pre-Production Environment**

* **URL:** preprod.retailproject.com
* **Purpose:** Final validation and performance testing before release to production

**Production Environment**

* **URL:** app.retailproject.com
* **Purpose:** Live platform accessed by actual users

**3.2 Access and Permissions**

**User Roles:**

* **Testers:** Access to test and pre-production environments for test execution
* **Developers:** Access to development and test environments for debugging and fixes
* **Stakeholders:** Limited access to test environments for reviews, demos, and UAT

**Security Protocols:**

* Secure login credentials managed centrally
* **Two-Factor Authentication (2FA)** enabled for sensitive access
* Audit logging to monitor access and changes in test environments

**4. Maintenance and Monitoring**

**Environment Maintenance:**

* Regular updates for operating systems, web browsers, and tools
* Hardware inspections and performance checks to prevent failures

**Monitoring:**

* Continuous monitoring of network speed, latency, and uptime
* **Automated alerts** set up for any downtime, service failure, or unusual activity

**5. Approval**

**Sign-off:**

Before official testing begins, the setup of the test environment must be approved by the key project leads.

* **Test Lead:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Development Lead:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Project Manager:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**✅ Conclusion**

This document defines the **test environment setup** for the *Online Retail Website Testing* project. A well-prepared and stable environment ensures accuracy in testing results and helps deliver a reliable, secure, and user-friendly e-commerce experience.