# **Test Environment Document**

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### 1. Introduction

The test environment ensures that all functionalities of the Academy LMS Plugin are validated under conditions simulating real-world usage. It includes the hardware, software, network configurations, and tools required to execute tests effectively.

#### 2. Environment Details

### 2.1 Operating Systems

- Windows 11: For desktop and laptop testing with popular browsers.
- macOS: For compatibility testing using Safari.
- Android: To verify functionality on mobile devices using Chrome.
- iOS: To ensure proper functionality and rendering on iPhones with Safari.

#### 2.2 Browsers

- Google Chrome (latest version): As the most widely used browser.
- **Mozilla Firefox (latest version)**: To ensure compatibility with open-source browser environments.
- **Microsoft Edge**: Testing for compatibility on Windows devices.
- **Safari** (latest version): To validate performance and compatibility on Apple devices.

#### 2.3 Server Environment

- WordPress CMS: Installed and configured with PHP version compatible with the plugin.
- Database: MySQL configured for plugin data management and retrieval.

#### 2.4 Devices

- **Desktop/Laptop**: For thorough testing of all functionalities.
- **Tablets**: To check responsiveness and ease of use.
- Mobile Devices: Android and iOS for mobile-specific functionality and UI testing.

### 2.5 Network Configuration

• Stable internet with a bandwidth of at least 10 Mbps for optimal plugin usage and performance testing.

### 3. Test Tools and Utilities

**Tool** Purpose

**Jira** Bug tracking and reporting.

**JMeter** Performance testing under different loads.

**BrowserStack** Cross-browser compatibility testing.

**Lightshot** Capturing screenshots for defect reporting. **Selenium** Automating repetitive test cases (ongoing).

Excel and Jira Zephyr Test case management.

## 4. Configuration Requirements

## **4.1 Hardware Requirements**

- **Desktops/Laptops**: Minimum configuration 8 GB RAM, 2 GHz multicore processor, and 256 GB storage.
- Mobile Devices: Android (version 8 or above), iPhone (iOS 13 or above).

## **4.2 Software Requirements**

- WordPress Platform: Latest version installed with Academy LMS Plugin.
- **Web Servers**: Apache/Nginx with PHP configuration for testing server-side functionality.

## 5. Responsibilities

- QA Engineers: Set up, maintain, and monitor the testing environment.
- **Developers**: Provide support for debugging and fixing issues in the environment.
- **Test Manager**: Ensure that the environment is properly configured and ready for testing.

### 6. Data Requirements

- Dummy user accounts for registration and role-based testing (e.g., admin, instructor, student).
- Sample course materials such as videos, quizzes, and documents.
- Test payment credentials for simulating transactions.