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Test Plan For Academy LMS plugin

Introduction:

This document discussed the test plan of the [Academy LMS plugin](#). These documents Provide a keen idea of accessibility of testing such as Functional, non-functional, unit testing, security testing, black box testing, smoke testing and many more. Academy LMS is a standard e-commerce wordpress website where customers are able to buy their desired Courses.

Web Page Overview:

Academy LMS is an Academy LMS is the next-gen WordPress LMS plugin for creating an eLearning website. With this plugin, users can create, manage and sell free and premium courses on different topics. What sets Academy LMS apart from other WordPress LMS plugins is its advanced frontend SPA(Single Page Application) interface, advanced quiz and course builder, multi Instructor revenue sharing, tons of free features, and lightning-fast dashboard, making it one of the most advanced free options available. With comprehensive overviews, you can easily create and modify quizzes and courses, as well as track student progress.

Purpose:

The main principle of this Test plan is to make the website secure, reliable, and also user friendly. On the other hand I also need to make sure that the website performs well in different situations like cross browser, bug free, error free, defect free, failure less. By testing from every aspect the website will become a quality full ecommerce website for users.

Scope of Testing:

The scope of [Academy LMS plugin](#) testing features are given below:

Formation:

- Header Section
- Registration
- Log In
- My Favorite
- Beta Testing
- Developers
- Search Plugin
- Download Links
- All Hyperlinks
- Detail Tab
- Review Tab
- Developer Tab
- Video testing
- Comercial Plugin
- Advance View
- Support
- Donate
- Footer Section

For better testing we need to test the above features.

Passing Over:

- Automation Test
- Any Third party Features
- Any of features that mentioned in Formation

Testing Environment:

- Windows Operating System 11 - Chrome, Firefox, Microsoft Edge
- Android Mobile Operating System - Chrome
- Iphone Mobile Operating System - Safari
- Mac Operating System - Safari

Plan of Action:

We need to Perform Functional Testing of [Academy LMS plugin](#) web application for the above test scope action.

As we do perform Functional testing will take below Test action:

Action-01:

Test Case and Test Scenario:

★ Here we will apply several Testing Design Technique For Creation Test Case:

- Equivalence Class Partitioning (ECP)
- Boundary Value Testing
- Decision Table Based testing
- State Transition
- Error Guessing

Action-02

★ Test Process After Getting an application:

- ☐ For the new build we will do a smoke test for checking the stability of the application.
- ☐ After getting the positive output from smoke testing we will go for depth testing , if smoke testing output fails then will send the result to the development team.
- ☐ Many tested will be performed on many of situations and environment continuously
- ☐ If we get any defect on application we will report it by bug tracking tool to develop management by emailing within the day.

★ Test That we will perform:

- Smoke Testing or Sanity Testing
- Regression Testing
- Integration Testing
- Usability Testing
- Functionality Testing
- Security Testing
- Performance Testing
- Stress Testing
- Load Testing
- Acceptance Testing
- Compatibility Testing
- System Testing
- Positive Testing
- Negative Testing
- User Acceptance Testing(UAT)

- **Smoke Testing or Sanity Testing:**
 - From the beginning of the build of Product we will test smoke tests such as if it successfully purchased a product, does the product add on wishlist, if it isn't working then we will return it to the development team for problem solving.
- **Functionality Testing:**
 - Testing the features of See Registration along with Login.
 - Testing the core functionality or module such as Navigation Menu.
 - Testing the Wish List module where users can add products/Courses for buying.
- **Usability testing:**
 - Testing the consistency style of pages, text, text alignment, page alignment.
 - Ensuring the Page layout is responsive, whether users are able to use the product on various cross platforms.
- **Compatibility Testing:**
 - Ensuring the validation of rendering of products in various famous browsers, likely Chrome, Firefox, Safari and Microsoft Edge.
 - Testing the Product in any platform likely, Android, Desktop, laptops, Iphone, tablet for ensuring the smoothness of user experience.
- **Performance Testing:**
 - Evaluate the website's loading time, accepting the performance on bad internet connection.
 - Verifying the responsiveness of website in many of cross Platform

- On heavy user traffic load, make sure that the website's stability and system access and the response time meet the requirement.
- **Security Testing:**
 - For user data protection verify the secure communication protocol (HTTPS)
 - Encryption mechanism for user data Protection
 - By testing User Log-In and Logout for secure user Protection.
- **Link Testing:**
 - Check all the internal and external link that working accurately and addressing to exact location
- **Accessibility Testing:**
 - Need to make sure that all kind of users with disabilities can access the application
- **Regression Testing:**
 - Here in regression testing we will test a module such as order place, Registration, add to cart etc. Well, lastly we can say that we are testing the main module or features of the web application.

Note: We will repeat the Test cycle for Quality Product.

- **Application Programing Interface (API):**

→ N/A

- **Automation Testing:**

→ N/A

★ Test Diagram:

→ In this section we will do a test diagram by helping with Mind Mapping.

→ We will draw a full Project in a mapping way where anyone can understand what is actually happening with the application.

Verification and Validation:

- **Verification:**

→ On verification is a process that the implemented system meet all the requirement that are given by stakholder.

- **Validation:**

→ Validation process checks that [Academy LMS plugin](#) meets all the user or customers expectations.

User Acceptance Testing:

After successful completion of Validation testing we will start to conduct User acceptance Testing(UAT). The stakeholder and end users perform the test to validate that the [Academy LMS plugin](#) meets all requirements properly and serves their expectations.

Defect Reporting Procedure:

The defect report will be created during the execution of the test.

- If any behavior is invented which doesn't meet the requirement, this will be reported as an issue.
- Report will be generated for any issue in usability testing.
- Defect will be reported or documented on an excel file
- Test scenario and Test cases also created on an excel file.

Test Schedule:

The test schedule plan has given below as a Table:

Task Name	Date From-To	Days
Creating Test Plan	26.11.2023 - 27.11.2023	2
Mind Mapping	26.11.2023 - 26.11.2023	1
Test Scenario	26.11.2023 - 26.11.2023	1
Test Summary Report		
Test Case Writing		
Bug Report		
Test Metrics		
Recommendation		

Schedule Table-001

Testing Tools:

- Bug Tracking and Reporting tools JIRA
- Mind Mapping Tool Xmind
- Microsoft Word and Excel For Test Case and Test plan
- Lightshot for taking screenshot
- Jmeter for Performance testing

Defect or Bug Fixing:

In this part we will discuss defect or bug fixing issues.

Defect or bug will be reported by defect reporting mechanism. The Testing team will identify the defect or bug and give the report to the development team for fixing the defect or bug. We need to provide the developer below information for better understanding about the bug:

- Expected Behaviour Report
- Actual Report
- Defect Description
- Reproduce step

Recommendations:

Once [Academy LMS plugin](#) for deployment there are some recommendations needed for further enhancement of application and continuous improvement.

Daily Optimization of the application performance whether maintain optimal user experience during peak usage. Need to care about security assessment on a daily basis for keeping the application secure.

Acknowledgement:

For the better quality product and successful completion of testing it wouldn't be possible without the Team work. I would like to thank the development team, stakeholders and other departments who were involved.

Without all of your participation [Academy LMS plugin](#) couldn't be turned into a quality Product.