Introduction

A. Overview
This document provides an overview of the testing conducted on the Academy LMS plugin, outlining identified bugs and improvement suggestions.

B. Date of Testing
28 november, 2023

C. Tester Information
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Bug Details

A. **Bug 1: Search Functionality Issue: Course Not Found with Similar Name**

1. Overview
   When searching for a course with the name "chatgpd," the expected result is to find the course "chargpt," but the course is not displayed in the search results.

2. Bug ID
   Bug_1

3. Priority
   High

4. Steps to Reproduce
   - Log in as an admin
   - Go to the link :http://localhost/wordpress/wp-admin/admin.php?page=academy-courses&action=new
   - Create a new course with the name "chatgpt"
   - Go to the link: http://localhost/wordpress/index.php/courses/
   - Write "chatgpd" in search form

5. Expected Behavior
   The course "chatgpt" should be displayed in the search results since the search term is similar.

6. Actual Behavior
   The course "chatgpt" is not shown in the search results when using the term "chatgpd."

7. Screenshots
   url:
   https://drive.google.com/file/d/1gTuMg3WA-uO_6RfskICro85IswgrDaaz/view?usp=drivesdk

B. **Bug 2: Search Functionality Issue: Course Not Found with Similar Name**

1. Overview

Despite having a course with the same name existing in the system, a new course with an identical name ("ChatGPT") is allowed to be created.

2. Bug ID
   Bug_2
3. Priority
   Medium
4. Steps to Reproduce
   - Log in as an admin.
   - Go to the link:http://localhost/wordpress/wp-admin/admin.php?page=academy-courses&action=edit&id=21
   - Create a new course with the name "ChatGPT."
   - Go to the link: http://localhost/wordpress/wp-admin/admin.php?page=academy-courses&action=edit&id=21
   - Create a new course with the name "ChatGPT."
   - Go to the link: http://localhost/wordpress/wp-admin/admin.php?page=academy-courses

5. Expected Behavior
   The system should prevent the creation of a course with a duplicate name and provide a relevant error message.
6. Actual Behavior
   A new course with the name "ChatGPT" is created, despite an existing course with the same name.
7. Screenshots
   url: url: https://drive.google.com/file/d/1mZLpp3luwYBedk6lg70LHCMX5nk1YodP/view?usp=sharing

C. Bug 3: Timezone Display Discrepancy
1. Overview
   After changing the WordPress timezone setting to Dhaka, the course creation time is still displayed in the previous America time zone, causing a discrepancy
2. Bug ID
   Bug_3
3. Priority
   High
4. Steps to Reproduce
   - Log in as an admin.
   - Go to WordPress settings and change the timezone to America.
   - Create a new course.
   - Note down the time
   - Go to WordPress settings and change the timezone to Dhaka
   - Note down the time

- Compare the second noted time with the first noted time

5. Expected Behavior
The course creation time should be displayed in the updated Dhaka timezone after changing the WordPress timezone setting.
6. Actual Behavior
The course creation time is still displayed in the previous America time zone.
7. Screenshots
url: url:
https://drive.google.com/file/d/161xhJRBPPN0myJO51XqZ7QUcgc10ypZZ/view?usp=sharing

Improvement Suggestions

A. **Improvement 1: Enhance Search Algorithm for Similar Names**
1. Description
Revise the search algorithm to improve the identification of courses with names similar to the search term.
2. Rationale
The current search functionality doesn't effectively identify courses with names closely related to the search term. Enhancing the algorithm will ensure that relevant courses are included in the search results.
3. Additional Information
Consider incorporating fuzzy matching or a more advanced search algorithm that can account for variations in spelling or slight differences in course names.

B. **Improvement 2: Implement Name Uniqueness Validation**
1. Description
Introduce a validation mechanism to ensure that course names are unique, preventing the creation of courses with identical names.
2. Rationale
The current system allows the creation of courses with duplicate names, leading to confusion. Implementing a name uniqueness validation will maintain a clear and organized course structure.
3. Additional Information
Provide a real-time check during the course creation process to alert users when attempting to create a course with a name that already exists. Include a descriptive error message indicating the need for a unique course name.

C. **Improvement 3: Improved Timezone Handling for Course Timestamps**
1. Description
Enhance the system's handling of timezones to ensure that course creation timestamps accurately reflect the selected WordPress timezone setting
2. Rationale

Currently, discrepancies in timezone representation can lead to confusion for users. By improving timezone handling, we aim to provide consistent and accurate timestamps aligned with the user's chosen timezone.

3. Consider implementing a mechanism that dynamically adjusts timestamps based on the user's timezone setting, ensuring that course creation times are displayed in the local time of the user. This improvement contributes to a more seamless and user-friendly experience, especially in diverse geographical settings.

Conclusion

In conclusion, addressing the search functionality issue, preventing the creation of courses with identical names, and refining the timezone handling are paramount for enhancing the user experience and system functionality of the Academy LMS plugin. The proposed improvement suggestions aim to make the search feature more intuitive, ensure a more organized and clear course structure, and deliver accurate and consistent timestamps aligned with the user's chosen timezone. These combined efforts contribute to a more seamless, user-friendly, and efficient learning environment within the Academy LMS plugin.

Acknowledgments

I would like to express my gratitude for the opportunity to contribute to the improvement process of the Academy LMS plugin. Special thanks to the development team for considering these suggestions. I am available for any further clarification or assistance related to the testing and improvement recommendations. Thank you for your attention and consideration.