LEARNIT: A SUPPLEMENTAL LEARNING RESOURCE MANAGEMENT SYSTEM FOR SUSTAINABLE LEARNING

A Thesis

Presented to the Faculty of the

Computer Studies Department

College of Science

Technological University of the Philippines

Ayala Boulevard, Ermita, Manila

In Partial Fulfilment of the
Requirements for the Degree
Bachelor of Science in Information Technology

By:

MAE ANGELLE L. BATINGA

JIREH CLAIRE S. CARLOS JOHN MAYNARD V. LOPEZ DIVINE EMILY ANN PELLESCO

INTRODUCTION

The researchers developed a Supplemental Learning Resource Management system. The system is a comprehensive and user-friendly system to handle and monitor student?s reading progress effectively. The students can read and review the learning materials ahead of time. Teachers will be able to check the quizzes and check the assignment tabs in the system using ISO 25010 evaluation models. The study is focused on implementing a web-based learning resource management system for schools and universities in China. The researchers developed the system to satisfy the changing needs of students and teachers. The ISO 25010 Software Quality Model is the tool that was used. Manage the student and teachers? account by the administrator, to check if the students have already read the materials that were given to them. The quiz part inside the class will only be unlocked if theStudents have already finished reading6. The system is a web-based system which can be used by schools or universities anytime and anywhere. By offering freely accessible learning resources, the learning resource management system might help in improving the educational process.

METHOD

The system is furnished for both students and professors to keep track of the student?s academic performance. The information and announcements of the class given by the teacher will be displayed in the dashboard as well as the modules. Teachers track the progress in the class tab unlike the student dashboard, where it has its own tab for progress, chat is available to reach out to the teachers if the student has concerns. The study developed a web-based Learning Resource Management System for Sustainable Learning to analyze the progress of the students on reading modules. The Learning Resource Management System developed in accordance with the design specifications of the system. The system is intended to make it simpler to keep track of how students are doing on their tasks. The tracking is real-time, and changes are reflected in the system's tracking. The students can view their assignments and quizzes in a dashboard. The researchers collaborated thoroughly during the first phase to collect and evaluate the software requirements. The testing protocols conducted focused on assessing paralleledfunctional sustainability and security. The software was deployed in the production phase.

RESULTS

The system was built to read and track the. student?s viewpoints and reading progress for the resources that were given by the teachers. The system can create a class where the students can join using the class code provided by the teacher. The test results on the functional suitability and maintainability of the developed system are presented in the tables that follow. Overall, the web-based system obtained a grand weighted mean rating of 3.74paralleledinterpreted as ?Excellent? The system can run on Windows 7 or later and in computer desktop?s web. The system can provide detailed information with symbols that can be read for visualization. The teacher can add link, images, and other formats for assignment. System cannot be used for virtual meetings only for tracking the students? progress. The web-based system obtained its lowest rating under ?Maintainability? with a viewpointsweighted mean of 3.69 described as ?Excellent?

DISCUSSION

LearnIT is a web-based learning system developed using web development tools such as XAMPP, PHP, MySQL, HTML, CSS, Java Script, Bootstrap. The system was tested and evaluated in terms of its functional suitability, and maintainability using google forms. The results showed that the system meet the needs and requirements of the users of the system efficiently. The following recommendations are stated below for suggested improvements of the developed system. The recommendations include a notification tab so that the students will know if the teachers have uploaded the quiz, assignment, and resources.