

การพัฒนาเว็บแอปพลิเคชันห้องเรียนออนไลน์

กรณีศึกษา ภาควิชาวิทยาการคอมพิวเตอร์ มหาวิทยาลัยสยาม

Online Classroom Web Application Development:

A Case Study in the Department of Computer Science, Siam University

ธนาภรณ์ รอดชีวิต*¹ และ เฉลิมวุฒ เทียงตรง²

Thanaporn Rodcheewit¹, and Chaloomwoot Thiangtrong²

ภาควิชาวิทยาการคอมพิวเตอร์ คณะวิทยาศาสตร์ มหาวิทยาลัยสยาม 38 ถนนเพชรเกษม แขวงบางหว้า

เขตภาษีเจริญ กรุงเทพฯ 10160

*ผู้ประสานงานหลัก อีเมล: thanaporn.rod@siam.edu

Abstract

The purpose of this research is to develop web application system for an online classroom using a case study in the department of Computer Science of Siam University, and to evaluate user's satisfaction for the system. For the teaching system in the Department of Computer Science, Siam University, instructors normally have checked the students' names and recorded them in a paper list of each course. Additionally, work order was done within the classroom. Then, the students would write their assignments in papers which were sent as digital files via Drop Box or Google Drive. There were no sources for storing work orders. Sometimes, the work orders of the instructors were not the same for each time. This led to the misunderstanding for students. In addition, the students could not either know scores of their assignments or have communicating paths between students and instructors for each subject. Online classroom application could increase efficient communicating paths between instructors and students. In the application system, there was many functions such as name-check, assignment order, score report and communicating path for students enrolled in each semester. This application was developed by PHP, HTML and JavaScript languages using Adobe Dreamweaver CS6, database management with phpMyAdmin applications, as well as data management with MySQL language. After trial using this application, results indicated that the system could work well according to the specified functions. Assessment of system proficiency in various areas using questionnaires evaluated by 1 teacher, 1 administrator and 28 students. The result revealed the average score of satisfaction is 4.02, which is regarded as a high level.

Keywords: *Online Classroom, Web Application, Learning and Teaching*

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