RANCANG BANGUN *LEARNING MANAGEMENT SYSTEM* (LMS) BERBASIS *WEB* PADA SMK DI BANDAR LAMPUNG

Oleh:
ARNALIAWATI
(1911050095)

ABSTRAK

SMK N 1 Bandar Lampung memiliki proses pembelajaran yang masih dilakukan secara tatap muka. Sistem belajar tatap muka mempunyai kelemahan yakni jika guru tidak hadir maka proses belajar mengajar menjadi terhambat. Terbatasnya waktu belajar mengajar di dalam kelas terkadang menghalangi para guru atau tenaga pendidik dalam memberikan semua materi pelajaran kepada siswa. Kesulitan ini banyak dikeluhkan oleh siswa dan guru saat ini, yang terkadang memiliki materi yang butuh penjelasan dalam waktu lama justru harus dijelaskan pada waktu singkat. Hal ini sangat tidak efisien karena waktu banyak tersita pada pekerjaan yang dilakukan secara manual tersebut. Dengan adanya sistem informasi *e-learning* maka dapat membantu mendukung dalam sistem belajar secara tatap muka, jika guru tidak hadir, kegiatan belajar dan mengajar menjadi tidak terhambat dikarenakan pelaksanaan kegiatan mengajar masih dapat dilakukan secara daring melalui *e-learning,* sehingga tidak memiliki keterbatasan waktu dalam belajar dan mengajar, karena materi yang telah tersimpan dalam e-learning. Dengan adanya sistem informasi *e-learning* ini guru juga tidak terkendala dalam memberikan tugas untuk evaluasi siswa, karena guru dapat menggunakan *fitur e-learning* itu sendiri, dimana nilai tugas dapat diberikan oleh guru dan dapat dihitung secara otomatis untuk siswa dan guru, sehingga sangat efisien dan efektif. Sistem informasi *e-learning* pada SMK N 1 bandar Lampung, berhasil dibuat dengan menggunakan dengan bahasa Pemrograman *PHP* dan *MySQL* untuk databasenya serta *Unified Modelling language* (UML) untuk pembuatan perancangannya. Sistem ini telah berhasil mengintegrasikan teknologi informasi berbasis web untuk mendukung proses belajar mengajar melalui e-learning. Fitur-fitur yang dikembangkan termasuk kemampuan untuk mengunggah tugas atau materi dalam berbagai tipe file, serta kemampuan untuk melakukan tatap muka secara virtual, namun sistem ini masih memiliki kelemahan yaitu absensi hanya dipantau melalui rekapan dan belum ada sistem penjadwalan absensi untuk setiap pertemuan.

Kata Kunci : Sistem Informasi, *e-learning***,** *Web Enginering Method, Website*

ABSTRACT

THE DESIGN OF WEB BASED LEARNING MANAGEMENT SYSTEM (LMS) ON VOCATIONAL SCHOOLS IN BANDAR LAMPUNG

By:

ARNALIAWATI

Public Vocational School 1 Bandar Lampung has an ongoing learning process done face-to-face. The face-to-face learning system has weaknesses namely, if the teacher is not present, the teaching and learning process will be hampered Likewise, students who are unable to attend will miss out on lessons and lack understanding of the material discussed when students concerned were not present. Limited teaching and learning time in the classroom sometimes prevents teachers or educational staff from giving their all lesson material to students. This is a problem in itself for energy educators who want to convey lesson material in detail. This difficulty many complaints by students and teachers today, who sometimes have the material What needs to be explained over a long period of time must instead be explained in time. This is very inefficient because a lot of time is taken up on work which is done manually. The e-learning information system can help support the face-to-face learning system face, if the teacher is not present, learning and teaching activities will not be hampered because the implementation of teaching activities can still be carried out online via e-learning, so you don't have time limitations in learning and teaching, because of the material that has been stored in e-learning. With this e-learning information system, teachers are also not constrained by problems providing assignments for student evaluation, because teachers can use the e-learning feature itself, where assignment grades can be given by the teacher and can calculated automatically for students and teachers, so it is very efficient and effective. The e-learning information system at SMK N 1 Bandar Lampung was successfully created using the PHP and MySQL programming languages for the database and Unified Modeling Language (UML) for the creation of the design. This system has successfully integrated information technology web-based to support the teaching and learning process through e-learning. Features developed include the ability to upload assignments or material in various file types, as well as the ability to conduct face-to-face meetings virtually, but this system still has a weakness, namely, attendance is only monitored through recaps and there is no absence scheduling system for each meeting. Therefore, this weakness can be an area of research further.

Keywords: Information Systems, E-learning, Web Engineering Method, Website.