

PERANCANGAN APLIKASI LEARNING MANAGEMENT SYSTEM(LMS) PADA BIMBINGAN BELAJAR BIANSU BERBASIS WEB

Muhammad Fitrah Al Ghazali

ABSTRAK

Pendidikan merupakan rangkaian aktivitas yang ditujukan untuk memaksimalkan kemampuan seseorang melalui proses pembelajaran yang dinamis dan menyenangkan. Kemajuan di bidang teknologi telah membuka peluang penerapan platform pembelajaran digital seperti *Learning Management System* sebagai alternatif untuk mengoptimalkan pembelajaran yang lebih efektif dan adaptif. Bimbingan Belajar Biansu yang telah beroperasi sejak 2011 awalnya menerapkan sistem pembelajaran konvensional dalam operasionalnya. Sistem ini kemudian diidentifikasi memiliki keterbatasan dalam monitoring kemajuan belajar siswa dan pendistribusian bahan ajar. Penelitian ini dilaksanakan dengan tujuan merancang aplikasi *Learning Management System* berbasis web untuk mengoptimalkan proses pembelajaran di lembaga Biansu. Metodologi yang diterapkan dalam penelitian adalah *Rapid Application Development*, yang memungkinkan pengembangan sistem dilakukan dengan cepat dan melibatkan partisipasi pengguna pada setiap tahapan pengembangan. Sistem yang dirancang mencakup berbagai fungsi meliputi pengelolaan konten pembelajaran, bank soal, quiz, dan sistem feedback. Dalam menentukan kebutuhan *Learning Management System*, penelitian ini mempertimbangkan beberapa aspek penting termasuk *user experience*, kesesuaian fitur, kecepatan akses, kemampuan pengembangan, Implementasi dari penelitian ini menghasilkan sebuah rancangan sistem berupa aplikasi *Learning Management System* berbasis web yang dapat digunakan di Bimbingan Belajar Biansu.

Kata Kunci : Biansu, Bimbingan Belajar, *Learning Management System*, *Rapid Application Development*, Pembelajaran Digital

DESIGNING A WEB-BASED LEARNING MANAGEMENT SYSTEM (LMS) APPLICATION FOR BIANSU TUTORING

Muhammad Fitrah Al Ghazali

ABSTRACT

Education is a series of activities aimed at maximizing a person's abilities through a dynamic and enjoyable learning process. Advances in technology have opened up opportunities for the application of digital learning platforms such as Learning Management Systems as an alternative to optimize more effective and adaptive learning. Biansu Tutoring, which has been operating since 2011, initially implemented a conventional learning system in its operations. This system was later identified as having limitations in monitoring students' learning progress and distributing learning materials. This study was conducted with the aim of designing a web-based Learning Management System application to optimize the learning process at the Biansu institution. The methodology applied in this study was Rapid Application Development, which allows the system to be developed quickly and involves user participation at every stage of development. The designed system includes various functions such as learning content management, question banks, quizzes, and a feedback system. In determining the requirements for the Learning Management System, this study considered several important aspects including user experience, feature suitability, access speed, and development capabilities. The implementation of this study resulted in a system design in the form of a web-based Learning Management System application that can be used at the Biansu Tutoring Center.

Keywords: Biansu, Learning Center, Learning Management System, Rapid Application Development, digital learning.