

Isnani Nona Fitrah. 2024. *Pengembangan Learning Managemen System (LMS) Berbasis Web Dengan Framework Laravel Di SMP Negeri 1 Bareng*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan , Universitas Trunojoyo Madura.
Pembimbing : Prita Dellia, S.Kom., M.Kom

ABSTRAK

Pembelajaran yang terdigitalisasi mampu meningkatkan efisiensi dan kreatifitas dalam pembelajaran. SMP Negeri 1 Bareng belum mempunyai perangkat digital yang dapat menunjang pembelajaran. *Learning Management System (LMS)* berbasis web dengan *framework* laravel dapat menjadi solusi permasalahan tersebut. Penelitian ini dikembangkan menggunakan model *prototype* dengan 7 tahapan yang terdiri dari analisis kebutuhan, membangun *prototype*, evaluasi *prototype*, mengkodekan sistem, menguji sistem, evaluasi sistem, dan menggunakan sistem. Penelitian ini menghasilkan produk *Learning Management System (LMS)* berbasis web yang telah memenuhi 5 aspek pengujian ISO 25010. Hasil pengujian menunjukkan 1) aspek *functional suitability* LMS mendapatkan presentase 100% dari ahli sistem dinyatakan “Dapat Diterima” untuk dioperasikan di SMP Negeri 1 Bareng. 2) aspek pengujian *usability* mendapatkan hasil presentase pengujian sebesar 86% yang masuk dalam kategori “Sangat Baik”. 3) aspek *performance efficiency* mendapatkan hasil rata-rata kecepatan LMS sebesar 1 detik yang masuk dalam kategori “Sangat Puas” dalam memberikan *experience* yang baik pada pengguna. 4) aspek *reliability* hasil tersebut tidak terjadi error sehingga dapat disimpulkan mendapatkan presentase 100% diatas standar minimal Telcordia yaitu 95%. Sehingga LMS SMP Negeri 1 Bareng memenuhi karakteristik pengujian *reliability*. 5) aspek *maintainability* didapatkan skor *relative system complexity / maintainabiliy index* sebanyak 71,74 yang masuk kategori *Moderate Maintainable*.

Kata kunci : *Laravel, Learning Management System, Pengembangan, SMP Negeri 1 Bareng Website.*

Isnani Nona Fitrah. 2024. *Development of a Web-Based Learning Management System (LMS) Using the Laravel Framework at SMP Negeri 1 Bareng*. Thesis, Informatics Education Study Program, Faculty of Education, Universitas Trunojoyo Madura. Supervisor: Prita Dellia, S.Kom., M.Kom.

ABSTRACT

Digitalized learning can increase efficiency and creativity in learning. SMP Negeri 1 Bareng does not yet have digital devices that can support learning. A web-based Learning Management System (LMS) with the Laravel framework can be a solution to this problem. This research was developed using a prototype model with 7 stages consisting of needs analysis, building a prototype, evaluating the prototype, coding the system, testing the system, evaluating the system, and using the system. This research produces a web-based Learning Management System (LMS) product that has met the 5 aspects of ISO 25010 testing. The test results show 1) the functional suitability aspect of the LMS gets a 100% percentage from system experts declared "Acceptable" for operation at SMP Negeri 1 Bareng. 2) the usability testing aspect obtained a test percentage result of 86% which was included in the "Very Good" category. 3) the performance efficiency aspect results in an average LMS speed of 1 second which is included in the "Very Satisfied" category in providing a good experience to users. 4) the reliability aspect of the results did not occur, so it can be concluded that the percentage was 100% above Telcordia's minimum standard, namely 95%. So that the LMS of SMP Negeri 1 Bareng meets the characteristics of reliability testing. 5) The maintainability aspect obtained a Relative System Complexity / Maintainable Index score of 71.74 which is in the Moderate Maintainable category.

Keywords: *Development, Laravel, Learning Management System, , SMP Negeri 1 Bareng, Website.*