ABSTRACT

DEVELOPMENT OF LEARNING MANAGEMENT SYSTEM (LMS) AT SMK PUTRA INDONESIA 1 CICALENGKA

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SMK Putra Indonesia 1 Cicalengka is a private vocational school located at Jalan Ir. H. Juanda Belakang, Cikuya Village Cicalengka. Online learning system is a Learning Management System (LMS) that there is now a means of complementary or supporting learning and teaching processes. The LMS still has some shortcomings that do not meet the needs of the user side of teachers in analyzing the quality of each item so that in analyzing the matter is still done by hand and in the LMS is not yet available in the form of essays exercise. Other obstacles that teachers experienced is difficulty in correcting the students' essay, because they have to correcting students' answers in one by one, so it takes a long time.

Based on the above problems, the solution is to do development on the Learning Management System (LMS) at SMK Putra Indonesia 1 Cicalengka. Development which conducted the analysis item in the form of analysis and level of difficulty about distinguishing matter, as well as the automatic correction and weighting essay exercises using Levenshtein Distance algorithm. Data collection method used are literature study, observation, interviews and questionnaires. Software development method used is the Waterfall method, software for analysis using a structured model is Entity Relationship Diagram (ERD) to model the data, and Data Flow Diagram for functional modeling.

Results of testing the system using the method of beta testing is test directly to users who have concluded that the LMS is developed can assist teachers in analyzing items and allows teachers to make corrections student essay.

Keywords: Learning Management System (LMS), item analysis, automated essay correction, Levenshtein Distance.