ABSTRACT

Design and Development of Web-Based Knowledge Management System for Student Activity Units at XYZ Educational Institution

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Knowledge is one of the most important assets for an organization to achieve its goals by improving the quality of human resources (HR). One of the technologies that can currently be utilized to manage knowledge is a knowledge management system (KMS). This system can be a solution for one of the Student Organizations (ORMAWA) at XYZ Educational Institution, namely the Student Activity Unit (UKM). Currently, the UKM faces issues related to internal knowledge management. This can lead to repeated mistakes, a decline in HR quality, and hindered work programs during each academic year period. Therefore, the UKM needs a system that can facilitate the processes involved in knowledge management. This research aims to design and develop a KMS application that can help the UKM store the knowledge needed to solve problems and make targeted decisions. The design and development of this application uses the Software Development Life Cycle (SDLC) method with a Waterfall approach. The application is implemented using the PHP programming language and the MySQL Database Management System (DBMS). To ensure that there are no errors in the system's functions, the author uses the black-box testing method. The results of this research are expected to ease and accelerate the UKM in managing and distributing knowledge that benefits the administrators and members of the UKM.

Keywords: Knowledge Management Systems, Web based Application, SDLC, PHP, MySQL

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