

WeLearn: A Web Based Distance Learning Application

A Capstone Project

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DUMINGAG CAMPUS

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ABSTRACT

The effectivity of e-learning system as support to the existing distance and blended learning system has motivated the researchers to design and develop a web, and android application-based e-learning system that will help the teachers in the implementation of their lessons during this global pandemic.

This research developed an interactive and user-friendly system called WeLearn: A Web Based Distance Learning Application to be used by JHCSC Dumingag Campus. The research aimed at easing the teaching-learning process to increase the learning of the students even in the distance learning compared to printed modules. Moreover, this research also aimed to reduce the workload of the teachers by uploading the modules, lessons, activities and quizzes in the system.

The system was developed with the used of PHP programming language for web-based platform while B4A was used in creating android application. Both platforms were connected to MySQL as a database. The method used in the study was waterfall model which include analysis, designing, coding, testing and maintenance.

The result of the study revealed that the developed e-learning system paved the way to a more progressive and productive way in implementing the blended learning system. The cost and man-power from producing to releasing of modules was reduced since these are being uploaded to the system. This system ensures that the benefits for the school observe quality standards and quality assurance. In lieu with this, the researchers recommended to conduct trainings for the students and teachers about the features of the system. Moreover, future researchers may include additional features such as video call conferencing and social media modules like Facebook to enhance the connectivity of students and teachers.