

## ABSTRACT

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*Application of Learning Management System and Online Exam Web Based is an application that used to take the case of study in 8<sup>TH</sup> Senior High School Bandung. This application is made for 8<sup>TH</sup> Senior High School Bandung as one of the educational institutions in the city has the facilities and educational facilities are fairly complete in accordance with the needs of teaching, but these schools do not have the facility of learning in a virtual world that this time it really helps the learning process. Submission of announcements, giving the materials, giving, collection and assessment of assignments, as well as the implementation of the semester exam is still done manually. Therefore, the app generates a Learning Management System and Online Exam as a e-learning in 8<sup>TH</sup> Senior High School Bandung. This application provides features to help teachers manage announcements, materials, assignments and exam. This application also helps students to download material, upload collection of assignments, implementing online exam and see the assignments and exam score. This Final Project using prototype methods, PHP programming language that is applied using CodeIgniter framework and MySQL database. This application is made to help teachers and students in the submission of the announcement, giving the material, the collection and give the score of student assignments, assist in the implementation of an online exam with random questions and display the results of exam score.*

*Keywords: Prototype, CodeIgniter, MySQL, LMS*