

ABSTRACT

Programming algorithm is one of course that must be taken by computer science' students. In fact, Computer science' student of computer science forced to familiar with programming skill. Not only student as novice programmer but also, programming algorithm is not just a single programming skills, but involve more than one different processes. Student must have a lot of doing programming algorithm task to practice programming algorithm ability. Sometimes, lecturer can not to guide student when doing task every time when student doing a task.

E-learning is a new transformation concept in education learning into digital form, both in terms of content and system. This technology can help lecturer for guide student every time. LMS is one of e-learning technology that facilitate lecturer to managing course. It can use to help lecturer familiar with e-learning technology.

The research aims to develop a heuristic learning Platform that called CIDEK PLATFORM focused in course management module. This platform can help lecturer to implement e-learning based on LMS technology. In this platform provide heuristic learning to find good solutions to an optimization problem. For platform develop, it will use iterative and incremental method made in four iteration by involving business modelling, requirement analysis, analysis and design, implementation, and testing. Platform based web application is built with by using concept Model-View-Template (MVT) which utilize Python programming language within Django Framework and MySQL database. The result of research is Programming Learning Platform.

Keywords – Course management module, CIDEK Platform, heuristic learning, iterative and incremental method