

ABSTRACT

Minithesis guidance is one of Minithesis process. In the minithesis guidance process, a lecturer can guide one or several student with the same topic and method. So, that to be required a collaborative learning process to facilitate the guidance of lecturer and students. As the tool's collaborative learning process, a system of collaborative learning was built. The steps to build the system are requirements, design, and implementation. One of the design phase is the software architecture design. The collaborative learning architectural design was designed using Aspect Oriented Architecture Description Language (AO - ADL).

The collaborative learning architectural design has functional requirement and non functional requirement. Functional requirements are collaborative learning minithesis guidance features. Collaborative learning minithesis guidance has three non – functional requirements. They are reliability, availability, and usability. The software architecture design created using AO – ADL notation. The Architectural designed was evaluated using the ATAM. The result from the evaluation obtained that usability has a tradeoff with the reliability and usability has a tradeoff with modifiability. The architectural design was implemented using MVC concept. The testing of the system is the distribution of questionnaires to user and black box testing.

Keywords : guidance, minithesis, collaborative learning, Architecture Description Language, Aspect Oriented Architecture Description Language