ABSTRACT

The curriculum used in Indonesia is Kurikulum Tingkat Satuan Pendidikan (KTSP, which is a form of operational curriculum developed by each educational unit. One implementation of the KTSP is Rencana Pelaksanaan Pembelajaran (RPP) which is a development of the syllabus. RPP consists of several aspects of the supporters of the teaching materials and question bank. Based on these explanations, built an academic information systems that support teachers in creating lesson plans and learning activities ie teaching material and question bank.

In building an information system, system development methods are needed. The method used in building this system is a method of applying iterative and incremental with 4 phases which iteration, elaboration, construction, and transitions.

Application of the system uses a distributed architecture that supports a web-based application to be accessed in a variety of areas throughout Indonesia. Technology Java Enterprise Edition (Java EE) is used in application development, excellence in a supportive academic information system applications.

Application of management information systems academic lesson plans are built applying architecture distributed and Java EE technologies with the iterative and incremental methods are part of the school management system integration of e-School. The result of performance testing is this aplication can handle imoderately request until 1400 user threads. Thus this application is expected to improve the quality of education in Indonesia.

Keywords: RPP, Iterative and Incremental Method, Academic Information Systems, Java Enterprise Edition, Distributed Architecture