

Abstract

The term student's exercise is not rare to be found in our education system. The exercise has aim to increase the knowledge of the students after they got the material needed from class. Today, most of student's exercise is still done by conventional method, that is by giving same questions to each student. The method is not really effective since each student has different knowledge level thus giving same questions to each student is considered as inefficient. There was a technology where all of exercise's questions are collected and put in a system and students are free to choose which question they want to answer. But the system still has weakness that is among all of those questions, system can't give recommendation to student about which question needed to be answered first. In this final project, an adaptive system had been build which has goal to help student exercising better than conventional method called Learning Crane. With the adaptation feature, system can give recommendation to students about which questions needed to be done first base on student's current knowledge level. This system is build using topic-based domain model with link annotation and direct guidance as the adaptive system. A test was held to determine whether the system affect the knowledge level of respondents which consist of students and general public. Based on the test result, the average of knowledge score raise is 6. Meanwhile based on questionnaire given, Learning Crane with its adaptive technology is better than conventional method is drawn as conclusion.

Keywords: Learning Crane, link annotation adaptive system, direct guidance adaptive system