ABSTRACT

Each semester students have a duty to take course according to available package from faculty during registration period. But sometimes students are confused in taking courses, such a courses that need to be repeated, a pre-requisite issues etc. Nowdays, there is no system in IT Telkom that can handle that problems, because the existing guides are static and non-specific. Recommender system is the suitable solution because it can provide a recommendation for an item that meet the desires and needs of the user.

Recommendation result was generated from data of user profile student and then using Knowledge-based method for processing system's knowledge. In the next step, using user based collaborative filtering for searching a similar user based on a taking of optional course in history data. Rating that used to determine user similarity is optional course score, and then give recommendation based on highest similarity.

When testing phase the result from 8 students of 2008 shows that average accuracy is about 77.846 percent and that means hybrid method is good enough for this case.

Keywords : recommender system, user profile, user similarity, knowledge-based, collaborative-filtering