Abstract

The students registration process has a standar proses flow which defined by IT Telkom. However, due to differences in the characteristics and conditions of the students, causing this process flow is different for each student and sometimes not appropriate with defined process. This discrepancy sometime cause problem such as delay in completing the registration process and class quota that doesn't match the number of students who are interested. Process mining is a technique that can be used to obtain the actual process model of the business process that really happen based on event logs from the information systems that handle such cases. In this final project, one of the process mining techniques namely process discovery is implemented. The purpose of the process of discovery is to find a model of the process that actually happened. Process discovery will be implemented using multiphase algorithm. This algorithm modelling each instances process, results of modeling each instances process will be combined into aggregating process model. Multiphase algorithm is able to generate process models with almost perfect accuracy (accuracy approaching one) so as to describe the process that occurs well. Nevertheless, the process model generated from this algorithm becomes overgeneralize.

Keywords : process mining, process discovery, event log, multiphase algorithm, students registration process.