ABSTRACT

IMPLEMENTATION OF C4.5 ALGORITHM IN MAKING AN APPLICATION TO ANALYZE THE POSSIBLE RESIGNATION OF PROSPECTIVE NEW STUDENTS

By

RANGGA GELAR GUNTARA
10107372

In UNIKOM Bandung, it often happen that a student candidate who has been succeed in the admission test, cancel his/her application by disregarding the next phase of admission process (re-registration). If the withdrawal possibility arised can be detected early, then it is expected that the UNIKOM executive can make any attempt to keep the candidate proceeds through the admission process and subsequently, minimizes the rate of admission cancellation.

An application to detect the possibility of application withdrawal has been built. The detection is based on the cases occurred in the past. The cases are searched and compared with the current case.

In order to make the cases searching technically easier, an indexing is conducted in the form of a decision tree, and it is used to build the rule bases. The tree is built with C4.5 algorithm that is improvement from the predecessor ID3 algorithm.

Keywords : Decision Tree, C4.5 Algorithm, Student Candidate.