Abstract

The Decision Support System (DSS) was built as a tool for supporting a decision. Case Based Reasoning(CBR) is one of Decision support method that based on knowledge.

BBM PPA (Scholarships for helping students and Improved Academic Achievement) Scholarship is offered in one section This scholarship divide the recipients into two parts, BBM or PPA. BBM is focused for students that has low economic level but has a good academic grade. And PPA is focused for students that has a good academic grade. CBR for selection such as BBM PPA, can categorize the candidates in BBM or PPA.

CBR method is started with retrieve. Cases scholarships are collected back as previous knowledge for reuse in determining the results of the new revenues. The process is done to retain the addition of a base case. From case base testing, increasing case base will impact the decision.

From the results of the test, which is compared with the decisions generated by Students Beuro, this method produces the smallest value of MAPE with 0.25 range for GPA, anda 500.000 for salary on data test 1 and GPA 0.05 and salary 500.000 for data test 2. And as avarage, Using index can reduce the value of MAPE than without the index.

Keywords: DSS, CBR, BBM PPA Scholarship.