Design and Implementation of Model Student Recommender Application

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ABSTRACT

The election of model student is one of the directorate of higher education’s agenda to give appreciation to the students who have achievements. In major level, there have not been a system that regulates this election yet. This situation makes the election committee to choose model students only from one aspect and ignore another aspects of assessment. This causes the speed and accuracy in the selection of model students become slower and less accurate.

To assist the election committee to choose model students, this program uses clustering technique. The clustering technique used is K-Means clustering. The process of selecting students is more quickly and accurately by using this system.

This application classifies existing criteria, that is built by ASP.NET framework. The process of clustering is used for classifying existing criteria to conform to the predetermined group.

This application gives a recommendation of student’s name who is eligible to represent their major to the next level competition. The input of the program are criteria’s and the score of each existing student, and from this, it can be classified by combining all the existing criteria.

That process produces recommendation of name. This application has been tested using three different criteria’s and scores. This process then produces a group which different to each student and there will be some student whom are in the same group.

Keyword: Clustering, K-Means, ASP.NET.