

ABSTRACT

Telkom University is one of the leading private college in Indonesia. This university is a combination of several institutions that are under the organizing body Telkom Education Foundation (YPT) that IT Telkom, Telkom IM, Polytechnic Telkom and Telkom STISI. With the launch of Telkom University make changes to the surrounding campus. The most significant change that many indekost around the founding of this university, this is because the number of students who conducted the study at the University needed a indekost. To search for a indekost place in accordance with the criteria of each student requires a short time, it is in because the search process where boarding is still done manually. In this case needed a system that can change a boarding information into digital information that aims to facilitate students in finding a indekost in accordance with the criteria.

In each location indekost implementation given the criteria that can describe the advantages of each location that will be the student can select each of these criteria. To be able to match the desires of students with different types of boarding places, then used a method which can compare the strengths and weaknesses of each location indekost. Promethee method and AHP method is a suitable method to solve this problem, because the PROMETHEE method can objectively assess criteria while AHP can give weight to the interests of each of the criteria to obtain the good results of the comparison.

The application has 101 locations data to be sorted by similarity values and the existing criteria with the processes of AHP-promethee. As result, 10 locations indekost will be recommended to the students as the best result of the search. The application has the advantage of using a filtering method which the difference value describes the strenghts and weaknesses of each indekost locations. Also, the application can be accepted by the society, it can be seen by its 91% compatibility.

Keywords: website, Promethee, AHP, Indekost, SIG ,Filtering Method

