“DESIGN AND IMPLEMENTATION AUTOMATIC TOPIC CATEGORIZATION AND CLASSIFICATION MODULE FOR FORUM APPLICATIONS phpBB”

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Abstract

One container to share information not exception for, systems engineers, is forum. Forum, in information is stored in the topic. Engineers could share information by means make topic. In a forum, engineers must determine the category or forum first that suit with the topics will made. Topic made by engineers containing knowledge where it can grouped based on knowledge is. However, topic found often with category not according to forum where the topic belong to be. The topics given by engineers contains knowledge which these topics can be grouped based on their knowledge. In a forum engineers must specify a category or forum topic. Category or forums on a topic can help engineers to find information. But it is often found in the wrong category topics in a forum.

This final project added knowledge management into a system forum. System that built can determine the knowledge that are found on topic and can also categorize topic in accordance with prescience. To find knowledge given by engineers, system using methods classifications naive bayes to determine a category or forum of a new topic. System also use clustering k-means algorithms to recategorize topics into new category if is deemed necessary by a domain experts, that in this system played by admin system.

Testing was done by spreading question to 120 users. Of answer that which returns, the result analysis shows that the majority of declare classifications topic mostly states the topic was classified well, and the classifications result compared with the classification result of weka application.

Keywords: knowledge management systems, classification, clustering, Naive Bayes, K-Means, forum