

## Abstract

Nowadays, development of and information and communication technology (ICT) more rapidly. Either a number of news document, especially digital news documents such as digital media online. It Causes more difficult to search on a topic of text document. *Clustering* is one of data mining method which is unsupervised learning to classify documents based on *distance* or *similarity*. One of the *clustering* method is *Partitioning Around Medoid* (PAM) algorithm. *Partitioning Around Medoid* a clustering algorithm trying to group of a dataset by finding a number of cluster center (*medoid*) that represents object in dataset. After obtaining *k medoid*, another object of documents grouped into *cluster* that have a closest *medoid*. The proximity method to calculate the distance between object uses *euclidean distance method*.

In This final project, the quality of the *clusters* is measured by two parameters: *cohesion* and *separation*. *Cohesion* indicates the distance between objects in one *cluster* while the *separation* is the distance between objects in different *clusters*.

**Keywords:** *partitioning around medoid, medoid, unsupervised learning, euclidean distance method, cohesion, separation.*