CHAPTER 1
INTRODUCTION

1.1   Background

In everyday live, we cannot escape the usage of internet. There are a lot of people who have their own social media accouts. Along with the times, they like to share a happy moment to the internet or their social media whether to share it to others or to make an achieve to be remembered later. Day by day internet has been a common thing to use and part of our life. Almost everyone can operates social media. But because of that, not few of them have fake accounts. They use their fake accounts to abuse others with hate comments and bullying. This comment has indication of a hate speech and there are a lot of hate speech coming from fake accounts towards someone they don't like.

Because things become common thing and being generally used, most of social media nowadays giving a report feature to report some comments or posts that considered a hate speech. But if the comments that being reported is handled manually one by one, it will be difficult and takes a lot of time to process and filter it one by one. With today's technology, it is not impossible to create a system that able to help in this certain problem to filter hate speech that being reported.

Nowadays there are a lot of research about sentiment analysis to differentiate which one is a negative and which one is positive. Some of it using various of algorithm like Naive Bayes or even Support Vector Machine. This research will use K-Means Clustering Algorithm to cluster between hate speech and not.

1.2   Problem Formulation

1. Will K-Means able to differentiate between a hate speech and not a hate speech?

2. Is K-Means effective to be used to predict and cluster hate speech?

1.3   Scope

This research will use dataset which can be downloaded from www.kaggle.com. This research will only cover set of sentence that contains hate speech and not. The language that being used in this dataset is Indonesian Language. This research is not paying attention to word order in the dataset.

1.4   Objective

This research objective is to detect and classify hate speech in a comment or post from twitter by using K-Means algorithm.