

## **ABSTRACT**

*Sentiment Classification can provide value in a text is the text belong to the "negative", "positive" or "neutral". The Classification of Sentiment can provide a recommendation to the user in the form of a textual. Recommender System can be used as a way to give a new product recommendations to users. Most of the application/product descriptions, opinions from users and so on are presented in textual form on the website. There are many ways in assessing a product offered, for example, is to give users an assessment by giving it a "Like" or "Dislike" or the user gives the stars from a scale of 1 (not good) to 5 (very good).*

*In this final Task, Sentiment Classification will be done through Opinion Extraction, where in this phase will be done word processing product features and opinions, said the process of parsing using the Stanford Parser to get the grammatical relationship in every phrase, word pairs to determine product features and opinions, determines the strength and polarity of opinion through SentiWordNet words then accumulate final value to each review. If the value of the end of the positive Sentiment that user then recommend applications that talk about, if negative otherwise. Then by using the techniques of Item Based Collaborative Filtering Recommender System, we can provide a recommendation to the user based on the applications they've ever scored before.*

*Based on the results of testing method using Mean Opinion Score (MOS), the Recommender System based on Sentiment Classification through Opinion Extraction can guarantee the result of a total value of sentiment with the accuracy of 92% for accuracy and results of application recommended by 83%.*

**Keyword** : *Opinion Extraction, Sentiment Classification, Recommender System, Collaborative Filtering*