ABSTRACT

The skin is the outermost organ that lines the human body. The skin is also referred to as an essential and vital organ. Among the various types of skin, facial skin is the part that most often gets attention, one side of the influence of a person's appearance is found on the face. Appearances can increase self-confidence in everyone. At this time everyone is doing various kinds of care to support their appearance. One of them is the treatment of facial skin.

In this final project, a research will be conducted in seeking a system for classifying facial skin types using the Android-based Gabor Wavelet and Naive Bayes methods. The feature extinction process uses the Gabor Wavelet method and the classification process uses the Naive Bayes method which aims as a biomedical tool for classifying facial skin types making it easier for the public to be able to find out the type of facial skin before selecting and using a suitable facial skin care product series.

The output of this system is the type of facial skin that consists of 4 classification of facial skin types namely; Normal, Oily, Dry and Combined. Based on testing with 15 testing data on 15 training data it was found that the resulting system can determine the type of facial skin with an accuracy rate of 92% and it can be concluded that the system has very valid criteria.

Keywords: Facial Skin Classification, Facial Skin Type, Gabor Wavelet, Naive Bayes.