

## ABSTRACT

*Teeth is an important part of the body. There are many dental diseases, one of dental disease is granuloma. To determine the diseases of the teeth is done by taking pictures of the teeth, then the diagnosis diseases of the teeth is done by a specialist dental through reading of the film result radiograph.*

*The result of this final assignment is a system based on Android that can detect the disease of the teeth, especially granuloma, by using Multiwavelet Transformation as feature extraction, for classification using k-NN (k-Nearest Neighbour) and by using 16 training data and 20 testing data. The system doing classification and detection on dental granuloma and determine the type of disease that occurs in the teeth.*

*The result of this final assignment is a system based on android which has 90% of accuracy rate and computing time is 0.01337995 second. in classification is divided into two type, namely the image of normal and granuloma. A system based on android is expected to help doctor, especially dentist for diagnosing diseases of the granuloma.*

**Keyword :** *Granuloma, Multiwavelet Transformation, k-Nearest Neighbour.*