ABSTRACT

Heart disease is still the number one killer in the world even in Indonesia. Arrhythmia is a condition where the heart's beat rhythms are unstable which could causes dead. Arrhythmia itself has some kind of classification, such as Sinus Bradycardia, Normal, and Sinus Tachycardia. Patients with heart disease may experience unstable heart's rhythms at any time, it is necessary to do periodic monitoring.

The problem is, to do the monitoring, patient has to come to the hospital. It takes a lot of time and money. For certain cases, such as athletes, direct monitoring when athletes perform activities is necessary to minimize the risk of heart attacks that occur suddenly.

This final assignment implements Fuzzy Classifier methods to classify the Arrythmia heart disosder using data from sensors worn by the user. Sensors produce heartrate data. This data will be processed by the system to determine the user's heart condition. The system is built utilizing mobile technology and web technology. The analysis includes the accuracy of the classification results at testing process.

Keywords: Heart Disease*, *Arrhythmia, Heartrate, Fuzzy Classifier.