ABSTRACT

Coronary Heart Disease has become the leading cause of death in Indonesia. Detection of the blood flow system by automatic systems using sensors has presented many promising avenues in the field of technology. Heart rate / pulse is an important indication in the health field that is useful as an effective and fast evaluation material and serves to determine the health condition of a person's body. The method of measuring the amount of the pulse has been used by doctors to determine stress, relaxation, physical fitness, and medical conditions.

Many advanced features are produced from smartphones. Smartphones have become a necessity for some people, because their features really help to make things easier. On smartphones there is an application that is very helpful for their activities. Especially to find a disease in this case is coronary heart disease. The author uses a pulse sensor in this study to detect the blood flow of someone who has coronary heart disease. Data from the sensor will be sent to a smartphone that will be able to be accessed in the Android user mobile application to see the output signal from the bloodstream.

This application will be useful for users to see the blood flow (heart) in the form of a signal released from the pulse sensor and will classify coronary heart disease or not.

Keywords: Coronary heart, pulse sensor, mobile application