

ABSTRACT

Elderly (elderly) are people who are over 60 years old [1]. Some of the problems faced by the elderly include physical, mental, social, and psychological. Which can lead to disruption of the day-to-day activities of the elderly. Physical condition of the elderly who decreased to make elderly should pay attention to health periodically. One of the problems that can be faced in the elderly is heart disease or heart failure.

In this final project, a system aimed at monitoring heart signals using online electrocardiogram (ECG) on elderly by applying Internet of Things technology. Online is the system must be connected to the internet to be able to send and read the result of monitoring and users can read the results of monitoring by accessing certain pages using the internet. Data that has been taken and processed microcontroller sent to the platform server using wireless network. Inside the platform server displays graphic heart signals and heart status.

Keywords: *Eldery, ECG, NodeMCU, platform, wireless network, Internet of Things*