

## **ABSTRACT**

*As the elderly population in Indonesia increases, the government has made efforts to improve their welfare through various policies and programs, including Law Number 36 of 2009 which regulates the rights of the elderly in the health sector. However, the elderly often face health problems related to the aging process, such as impaired vision, hearing and decreased cognitive function, which can make it difficult to take medication regularly. The result of the study showed that many elderly people are not compliant in taking medication because they forget or have difficulty remembering the correct type and dosage. This can have a negative impact on their health, especially for those with chronic conditions such as hypertension. To overcome this problem, technology can be utilized to help the elderly take medication regularly. One solution is to develop a Smart Medicine Box, a device equipped with a microcontroller, Wi-Fi, camera and the Blynk application. This tool allows the elderly to set a medication schedule, reminders and monitor medication consumption. With the Smart Medicine Box, it is hoped that the elderly can more easily and regularly take medication according to doctor's recommendations, so that they can improve their health and quality of life. In addition, this tool can also help families or caregivers in monitoring the consumption of elderly medicine, so that they can provide better support.*

*Keywords : Elderly, Health, Medicine, Technology, Smart Medicine Box, Blynk, Microcontroller*