

ABSTRACT

Cardiovascular diseases are known to have caused 29.5 percent of all deaths globally in 2010 and would account for 32% of all fatalities by 2020 (WHO, 2021). Heart failure is one of numerous heart-related conditions that come within the CVD umbrella that has been recognized as a growing pandemic since 1995. It is estimated that 64,3 million individuals worldwide have HF (Groenewegen et al, 2020).

Lira Medika Hospital, a hospital in Karawang, West Java, states that Heart failure is the most common CVD case. And with the current pandemic of Sars-CoV-2, many of their patients prefer to be on out-patient care, which means they have to manage themselves. Various issues could be found during self-management care, and to solve these issues, an application named “Kembali Sehat” was planned along with Lira Medika hospital. The main goal of the application is to help Heart failure patients with their self care at home with features that have been provided. And in this project, two of the four features were focused on, namely “Medication Reminder & Tracker” and “Educational Content”.

Methods of development are different for each feature. For Medication reminder & tracker, several steps include Analysis, Design, Coding, Beta testing, Launch, and Update. For Educational content, several steps include Brainstorming, Validation, Production, and Upload. Various software were used including XAMPP, Node.js, Visual Code, Lumen, MySQL, Vue.js, Nuxt.js, Axios, and MariaDB. After development, the results are both features to be fully operational along with other features and other modules as well. With these features, we hoped that we could help to increase the rate of recovery of Heart failure patients.

Keywords: Heart Failure, Mobile Application, Medication Reminder, Self-Management