ABSTRACT

Health is a precious asset for everyone; however, health issues such as heart disease often pose life-threatening risks. According to the WHO, heart disease is one of the leading causes of death worldwide. Therefore, there is a need for technology capable of monitoring the heart condition of patients in real-time to provide prompt and accurate treatment. This study focuses on developing a website-based frontend interface for monitoring heart patients using Internet of Things (IoT) technology. The system is designed to facilitate monitoring of heart patients by medical personnel, displaying real-time and historical heart rate data, as well as relevant patient information. The development process involves several stages from needs analysis, interface design, implementation, to testing. Methods utilized include Design Thinking to ensure a user-friendly solution that meets user needs. Test results demonstrate that the system can present data accurately and in real-time, receiving positive feedback from users regarding ease of use and monitoring efficiency. Implementation of this system is expected to enhance healthcare service quality and provide significant benefits to hospitals and heart patients.

***Keywords:** Prototyping process model, Website Development, Internet of Things (IoT), Design Thinking, heart disease.*