ANDROID BASED REAL-TIME MONITORING DESIGN FOR QUEUE LIST AND NEAREST AMBULANCE SEARCH AT RANGKASBITUNG REGIONAL HOSPITAL

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ABSTRACT

Information technology has now changed almost all institutions, both private and state-owned. At Rangkasbitung Regional Hospital, there are several problems that require solutions. One of the problems faced is the long queues due to the use of a manual system, which takes a long time and makes it difficult for patients to find information about ambulances. Utilizing technology to improve this system is the best solution that can be done by implementing the ADDIE method. ADDIE is an acronym for five stages of the development process, namely Analysis, Design, Development, Implementation, and Evaluation. To simplify patient bureaucracy, an Android-based health application with an ambulance feature can be developed. Through this application, patients can use their smartphones to find information about ambulance locations. In addition, patients can also determine the location point using Google Maps, which can help them find the desired address or location. For the queue system, Firebase will be used as a place to store data. Based on the results of testing carried out using the black box testing method, the designed system is feasible to use. It is hoped that with this system, the queue process and searching for ambulances can be more effective and efficient, providing convenience for service providers and contributing to increasing user satisfaction.

Keywords: Monitoring, Queue, ADDIE, Android, Location-Based Service, Ambulance