

DEVELOPMENT OF A MOBILE-BASED PATIENT INFORMATION SYSTEM AT SUNAN KALIJAGA DEMAK HOSPITAL USING THE WATERFALL METHOD

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ABSTRACT

Data management and recording of medical records is still provided to patients using hard files or manually so that patients still have to prepare the data again to be used for treatment at Sunan Kalijaga Regional Hospital, Demak. Without a mobile-based patient information system, people still have difficulty accessing information, because the system is less responsive. Therefore, a mobile-based patient information system is needed to optimize the quality of health services that can inform patient history and subsequent treatment visits for outpatients. This research aims to create an online application for the registration process for outpatients and inpatients at this RSUD, which can be accessed via mobile devices, as well as to understand the patient visiting system at the hospital. The Waterfall method is used to develop applications for the patient information system at Sunan Kalijaga Hospital, Demak. Observation and interviews were used as data collection methods. System testing is carried out using a black box and Acceptance Testing involving prospective user respondents, to ensure that the application functions properly. The final result obtained from this research is that a mobile-based patient information system can manage patient data and medical records so that it can inform patients about their treatment history and subsequent treatment schedule for outpatients at Sunan Kalijaga Regional Hospital, Demak. In addition, the level of user acceptance reached an average of 84% from the results of the development of this patient information system. Keywords: research, patient information system, Sunan Kalijaga Hospital Demak, android, efficiency, service quality, mobile, patient visits, registration, queue number , medical records, registration history, outpatient, admin, messages.

Keywords: Mobile application, service efficiency, patient registration, information system, waterfall.

