

ABSTRACT

Muh,Nafis Riskillah (22134620018)

Nur Afni Maulina (22134620020)

DIII Medical Record and Health Information Study Program

Noor Huda Mustofa University

Advisor

M.Afif Rijal Husni, S.ST., M.Kes

NIDN. 0721019601

DESIGN OF ELECTRONIC MEDICAL RECORD APPLICATION AT THE MANDATORY PRACTICE of drg. SONIYA MAYASARI

ABSTRACT

Independent Practice drg. Soniya Mayasari still use manual recording in medical record management, starting from the patient registration process to the payment stage. This condition causes the service process to be inefficient, has a high risk of data loss, and is not in accordance with Permenkes No. 24 of 2022 which requires the use of electronic medical records. Therefore, it is necessary to implement an electronic application-based information system that can improve the efficiency and quality of dental health services as a whole.

This research used the Research and Development (RnD) approach with the Waterfall model. Stages of system development included needs analysis through brainstorming, system design using flowchart, DFD, and ERD, as well as HTML, CSS, and Bootstrap-based interface design. Backend development is done using CodeIgniter 4 with MySQL database. All system functions were tested using the Blackbox Testing method to ensure their feasibility.

The results showed a web-based information system that had two access rights, namely doctors and administrative officers. This system supported recording patient data, examinations, diagnoses, actions, queues, print reports, and payments. All features designed can run well and according to user needs.

The implementation of this system was proven to improve work efficiency, security, and accuracy of medical record data. The implementation of the system is expected to reduce dependence on paper, speed up the service process, and is in line with the health digitization policy stipulated in Permenkes No. 24 of 2022.

The benefit of developing this application is to replace the manual recording that has been used with a more modern electronic system. This system helps minimize the risk of data loss, speed up services from registration to payment, and support the accuracy and security of patient data. In addition, this application also helps implement digitalization and efficiency in medical data management.

Keywords: Electronic Medical Record, Health Information System, Waterfall.