Design and Development of a Website-Based Medical Record File Retention System at the Jelbuk Health Center

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ABSTRACT

Medical record retention is the process of separating active and inactive medical record documents in the storage room. Based on preliminary studies, the last retention at the Jelbuk Health Center was carried out in 2023. In the last three years, the number of patient visits has increased significantly with a total of 23,263 visits 6,001 in 2021, 7,947 in 2022, and 9,315 in 2023. In 2023, a total of 5,020 files have been retired, but there are still 448 files from 2018 to 2020 that have not been retired and are still on the active storage shelf. This condition causes accumulation of files, limited storage space, and physical damage to documents such as discoloration and tearing of the cover. In addition, searching for medical records becomes slower, which has an impact on patient waiting time. This study aims to design and develop a website-based medical record retention system using the Waterfall development method. The process starts from identifying needs, designing ERD diagrams, Context Diagrams, DFD, to the user interface. The system was developed using PHP (Laravel), Bootstrap, and MySQL. Testing is done using the blackbox method and shows all features run well. This system is expected to speed up the retention process automatically, accurately, and according to standards. It is recommended that the implementation be carried out in stages, starting from officer training, limited trials, to periodic evaluations to ensure the system remains relevant to the needs and applicable regulations.

Keywords: *Medical Records, Retention, Health Center*