

Design and develop a web-based daily inpatient census information system at Kalisat Jember Hospital, Bramanti Isman Patty, ID G41221595, 2024, Health Information Management, Health, Jember State Polytechnic, supervised by Bakhtiyar Hadi Prakoso S.Kom.,M.Kom.

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ABSTRACT

The improper completion of the daily inpatient census forms, which does not adhere to the Standard Operating Procedures (SOP), significantly impacts the data recapitulation process. This recapitulation process is carried out using forms in Microsoft Excel, which are not automatically integrated. Consequently, extra effort is required to transfer data from Google Spreadsheets to Microsoft Excel, posing a risk of errors. As a result, the census recapitulation cannot be performed quickly and takes a considerable amount of time. This delay affects the timely creation of internal hospital reports such as hospital performance indicator reports (BOR, AvLOS, TOI, BTO, NDR, GDR). These reports are then submitted to hospital management. This study aims to design and develop a web-based daily inpatient census information system at Kalisat Regional Hospital in Jember. The research method used is the waterfall method, a sequential approach model starting from analysis, design, coding, testing, to the support stage. Data collection procedures were carried out through interviews, observations, and documentation studies. The results of the black-box testing indicated that all menus and features function properly and can be accessed by users. Usability testing results showed that 74% of respondents found the application's features easy to use, 80% found the application easy to operate, 74% found the application's interface easy to recognize, 84% found the application beneficial to users, 76% stated that the application met their needs, 78% stated that the print feature worked well, 78% stated that the data display in the application functioned well, and 86% stated that the application provided easily understandable information. The user satisfaction rating scale for the daily inpatient census information system application was very high. The outcome of this research is a web-based daily inpatient census information system application that facilitates the processing of data into the necessary daily census reports and addresses issues arising from the manual system.

Keywords: Daily inpatient census application, Information system, Waterfall.