

ABSTRAK

Latar Belakang: Analisis kuantitatif dokumen rekam medis rawat inap di Instalasi Rekam Medis RSUD dr. Soedono Madiun menggunakan sistem informasi yang tidak memenuhi kebutuhan terutama item penilaian analisis kuantitatif sesuai STARKES tahun 2022 yang berlaku di rumah sakit, sehingga perlu adanya perancangan ulang sistem informasi analisis kuantitatif dokumen rekam medis rawat inap yang memenuhi kebutuhan pelaporan SPM, akreditasi, dan internal lainnya.

Tujuan: Merancang ulang sistem informasi analisis kuantitatif dokumen rekam medis rawat inap berbasis web berdasarkan STARKES tahun 2022 di RSUD dr. Soedono Madiun Provinsi Jawa Timur.

Metode: Metode kualitatif dengan pendekatan *R&D*. Tahap perancangan menggunakan metode *prototype*. Pengambilan data melalui wawancara, observasi, dan studi dokumentasi dengan subjek penelitian petugas rekam medis yang menggunakan sistem informasi analisis kuantitatif.

Hasil: Hasil perancangan memuat analisis kebutuhan (identifikasi pengguna, alur penggunaan sistem, kebutuhan data, dan kebutuhan *output*), perancangan ulang sistem informasi analisis kuantitatif (desain use case diagram, 15 *activity diagram*, *class diagram* relasi tabel 6 tabel, *ERD*, 18 tampilan *wireframe* dan 12 tampilan antarmuka), pengembangan *prototype* (28 desain tampilan antarmuka sistem informasi analisis kuantitatif), Hasil uji coba (metode *blackbox* untuk 39 pengujian dinyatakan berhasil), dan evaluasi perancangan ulang sistem informasi sudah memenuhi kebutuhan pengguna.

Kesimpulan: Rancangan ulang sistem informasi analisis kuantitatif dokumen rekam medis rawat inap berbasis web memuat analisis kebutuhan hingga evaluasi sistem informasi sudah memenuhi kebutuhan pengguna.

Kata Kunci: Sistem Informasi, Metode *Prototype*, Analisis Kuantitatif

ABSTRACT

Background: *Quantitative analysis of inpatient medical record documents at the Medical Records Installation at RSUD dr. Soedono Madiun uses an information system that does not meet needs, especially quantitative analysis assessment items according to STARKES 2022 which apply in hospitals, so there is a need to redesign the information system for quantitative analysis of inpatient medical record documents that meets SPM, accreditation and other internal reporting needs.*

Objective: *Redesigning a web-based information system for quantitative analysis of inpatient medical record documents based on STARKES in 2022 at RSUD dr. Soedono Madiun, East Java Province.*

Method: *Qualitative method with approach R&D. The design stage used prototype methods. Data was collected through interviews, observations and documentation studied with research subjects medical records officers used a quantitative analysis information system.*

Results: *The design results include needs analysis (user identification, flow of system use, data requirements, and requirements output), planning rework quantitative analysis information systems (use case diagram design, 15 activity diagram, class diagram table relationship 6 tables, ERD, 18 views wireframe and 12 interface displays), development prototype (28 quantitative analysis information system interface designs), test results (the Blackbox method for 39 tests was declared successful), and evaluation of information system redesign that meets user needs.*

Conclusion: *The redesign of the information system for quantitative analysis of web-based inpatient medical record documents includes needs analysis to evaluate whether the information system meets user needs.*

Keywords: *Information Systems, Methods Prototype, Quantitative Analysis*