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SISTEM INFORMASI MANAJEMEN POSYANDU CERIA DI KELURAHAN PANJANG WETAN, di bawah bimbingan M.Faizal Kurniawan, S.Kom, M.Kom dan Wachid Darmawan, M.Kom

242 + xv hal / 95 gambar / 22 tabel / 6 lampiran / 18 daftar pustaka (2010-2023)

ABSTRAK

Posyandu Ceria di Kelurahan Panjang Wetan memiliki peran penting dalam pelayanan kesehatan masyarakat, khususnya ibu dan anak. Namun, pengelolaan data yang masih dilakukan secara manual menimbulkan berbagai kendala, seperti pencatatan yang kurang efisien, kesulitan pencarian data, dan risiko kehilangan Data. Untuk mengatasi masalah tersebut, penelitian ini bertujuan untuk merancang dan mengembangkan Sistem Informasi Manajemen Posyandu berbasis web. Metode pengembangan sistem yang digunakan adalah Waterfall, yang meliputi tahap komunikasi, perencanaan, pemodelan, konstruksi, dan implementasi. Sistem dirancang menggunakan Unified Modeling Language (UML) dengan framework CodeIgniter 4 serta basis data MySQL. Pengujian dilakukan menggunakan metode White Box Testing, Black Box Testing, dan User Acceptance Testing (UAT). Hasil penelitian menunjukkan bahwa sistem informasi yang dikembangkan mampu meningkatkan efisiensi pencatatan dan pengelolaan data, mengurangi risiko kehilangan data, serta mempermudah akses informasi terkait riwayat kesehatan balita. Sistem ini juga menyediakan fitur untuk mencetak laporan dalam format Excel dan PDF. Dengan demikian, sistem diharapkan dapat mendukung kegiatan Posyandu secara optimal dan meningkatkan kualitas layanan kesehatan masyarakat

Kata Kunci : Sistem Informasi, Posyandu, *Waterfall*, *White Box Testing*, *Black Box Testing*, UAT

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POSYANDU CERIA MANAGEMENT INFORMATION SYSTEM IN PANJANG
WETAN VILLAGE under the guidance of M.Faizal Kurniawan, S.Kom, M.Kom, and
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ABSTRACT

Posyandu Ceria in Panjang Wetan Village plays an essential role in providing healthcare services to the community, especially for mothers and children. However, the data management process, which is still conducted manually, causes various issues such as inefficient record-keeping, difficulties in data retrieval, and the risk of data loss. To address these issues, this study aims to design and develop a web-based Posyandu Management Information System. The system development method used is the Waterfall model, which includes stages of communication, planning, modeling, construction, and implementation. The system is designed using Unified Modeling Language (UML) with the CodeIgniter 4 framework and MySQL database. Testing was conducted using White Box Testing, Black Box Testing, and User Acceptance Testing (UAT). The results indicate that the developed information system improves the efficiency of data recording and management, reduces the risk of data loss, and facilitates access to information on children's health history. The system also provides features for generating reports in Excel and PDF formats. Therefore, the system is expected to optimally support Posyandu activities and enhance the quality of community healthcare services.

Keywords: *Waterfall, White Box, Black Box, UAT, Waterfall, Posyandu*

