

ABSTRAK

Moch. Ali Murtadlo. 2026. Rancang Bangun Sistem Informasi Pemantauan Kesehatan Lansia Ibu Hamil dan Anak Berbasis *Website* (Studi Kasus: Posyandu Anyelir Kanigoro Madiun). Skripsi. Program Teknik Informatika, FT, UNIVERSITAS PGRI MADIUN. Pembimbing (I) Saifulloh, S.Kom., M.Kom. (II) Muh.Nur Luthfi Azis, S.Kom., M.Kom.

Posyandu Anyelir Kanigoro Madiun masih melakukan pencatatan data kesehatan lansia, ibu hamil, dan anak secara manual menggunakan buku pencatatan. Kondisi tersebut menyebabkan proses pencarian data, penyimpanan riwayat pemeriksaan, dan penyusunan laporan membutuhkan waktu yang lebih lama serta berisiko terjadinya kehilangan maupun kerusakan data. Oleh karena itu, diperlukan suatu sistem informasi berbasis *website* yang mampu mengelola data kesehatan secara terintegrasi sehingga dapat meningkatkan efektivitas dan efisiensi pelayanan Posyandu. Penelitian ini bertujuan untuk merancang dan membangun Sistem Informasi Pemantauan Kesehatan Lansia, Ibu Hamil, dan Anak berbasis *website* di Posyandu Anyelir Kanigoro Madiun, mengimplementasikan sistem menggunakan *framework Laravel* dan *database MySQL*, serta mengetahui hasil pengujian fungsional sistem menggunakan metode *Black Box Testing*. Metode pengembangan sistem yang digunakan dalam penelitian ini adalah *Prototype*, yang terdiri atas tahapan *Communication*, *Quick Plan*, *Modeling Quick Design*, *Construction of Prototype*, dan *Deployment and Delivery*. Pengumpulan data dilakukan melalui observasi, wawancara, studi pustaka, dan dokumentasi. Sistem dirancang menggunakan *Unified Modeling Language* (UML), kemudian diimplementasikan menggunakan *framework Laravel*, bahasa pemrograman PHP, serta *database MySQL*. Selanjutnya, sistem diuji menggunakan metode *Black Box Testing* untuk memastikan seluruh fungsi berjalan sesuai dengan kebutuhan pengguna. Hasil penelitian menunjukkan bahwa Sistem Informasi Pemantauan Kesehatan Lansia, Ibu Hamil, dan Anak berbasis *website* berhasil dikembangkan sesuai kebutuhan Posyandu Anyelir Kanigoro Madiun. Sistem mampu mengelola data lansia, ibu hamil, dan anak, mencatat hasil pemeriksaan kesehatan, menyimpan riwayat pemeriksaan, mengelola jadwal kegiatan, serta menghasilkan laporan secara lebih efektif dan efisien dibandingkan dengan proses manual. Berdasarkan hasil pengujian menggunakan *Black Box Testing*, seluruh fungsi sistem berjalan sesuai dengan kebutuhan fungsional yang telah dirancang sehingga sistem dinyatakan layak digunakan sebagai media pengelolaan dan pemantauan data kesehatan di Posyandu Anyelir Kanigoro Madiun.

Kata kunci: Sistem Informasi, Posyandu, Pemantauan Kesehatan, *Prototype*, *Laravel*, *Black Box Testing*.

ABSTRACT

Moch. Ali Murtadlo. 2026. *Design of website-based Elderly Health Monitoring Information System for pregnant women and children (Case Study: Posyandu Anyelir Kanigoro Madiun)*. Thesis. Informatics Study Program, FT, UNIVERSITAS PGRI MADIUN. Advisor (I) Saifulloh, S.Kom., M.Kom. (II) Muh.Nur Luthfi Azis, S.Kom., M.Kom.

Posyandu Anyelir Kanigoro Madiun still records the health data of the elderly, pregnant women, and children manually using a recording book. This condition causes the process of searching data, storing inspection history, and preparing reports to take longer and the risk of data loss or damage. Therefore, a website-based information system is needed that is able to manage health data in an integrated manner so that it can improve the effectiveness and efficiency of Posyandu services. This study aims to design and build a website-based Health Monitoring Information System for the elderly, pregnant women, and children at Posyandu Anyelir Kanigoro Madiun, implement the system using the Laravel framework and MySQL database, and determine the results of functional testing of the system using Black Box Testing Methods. The system development method used in this study is Prototype, which consists of stages of Communication, Quick Plan, Modeling Quick Design, Construction of Prototype, and Deployment and Delivery. Data collection was conducted through observation, interviews, literature studies, and documentation. The system is designed using the Unified Modeling Language (UML), then implemented using the Laravel framework, PHP programming language, and MySQL database. Furthermore, the system is tested using the Black Box Testing Method to ensure that all functions run according to user needs. The results showed that the website-based Health Monitoring Information System for the elderly, pregnant women, and children was successfully developed according to the needs of Posyandu Anyelir Kanigoro Madiun. The system is able to manage the data of the elderly, pregnant women, and Children, record the results of medical examinations, store examination history, manage Activity schedules, and generate reports more effectively and efficiently compared to manual processes. Based on the results of testing using Black Box Testing, all system functions run in accordance with the functional needs that have been designed so that the system is declared feasible to be used as a medium for managing and monitoring health data at Posyandu Anyelir Kanigoro Madiun.

Keywords: *Information System, Posyandu, Health Monitoring, Prototype, Laravel, Black Box Testing.*