

# **SISTEM INFORMASI POSYANDU (TUNAS) UNTUK PENDATAAN KESEHATAN BALITA PADA POSYANDU RW. 006 PONDOK BAMBU BERBASIS *WEBSITE***

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## **ABSTRAK**

Pelayanan posyandu di RW 006 Pondok Bambu hingga kini masih dilakukan secara manual melalui pencatatan kertas dan formulir fisik, sehingga rawan terjadi keterlambatan, ketidakakuratan data, serta kesulitan dalam pelaporan perkembangan kesehatan balita. Kurangnya sistem informasi yang terintegrasi menyebabkan kader dan orang tua tidak memiliki akses yang cepat dan terstruktur terhadap data kesehatan anak. Untuk menjawab permasalahan tersebut, penelitian ini merancang dan mengembangkan Aplikasi Posyandu TUNAS berbasis website yang mampu mengelola proses pencatatan pemeriksaan balita, imunisasi, riwayat kesehatan, serta pelaporan kegiatan secara digital. Penelitian ini menggunakan pendekatan Waterfall, dimulai dari analisis kebutuhan menggunakan metode PIECES, perancangan sistem dengan UML, implementasi menggunakan teknologi web dan basis data MySQL, serta pengujian menggunakan Black Box Testing. Fitur utama sistem meliputi pengelolaan data anak, pencatatan hasil pemeriksaan, manajemen jadwal kegiatan, akses riwayat kesehatan oleh orang tua, serta dashboard pelaporan untuk kader dan kelurahan. Hasil pengujian menunjukkan bahwa seluruh fitur berjalan sesuai kebutuhan pengguna dan mampu meningkatkan efisiensi kerja kader, akurasi pencatatan, serta keteraturan data posyandu. Dengan demikian, aplikasi TUNAS diharapkan menjadi solusi digital yang mendorong peningkatan mutu layanan posyandu secara lebih modern, efektif dan terintegrasi.

**Kata Kunci:** Posyandu, Sistem Informasi, Balita, Website, Waterfall.

# THE POSYANDU INFORMATION SYSTEM (TUNAS) FOR RECORDING THE HEALTH OF TODDLERS AT THE RW. 006 PONDOK BAMBU POSYANDU—A WEB-BASED SYSTEM

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## ABSTRACT

*Posyandu services in RW 006 Pondok Bambu are still carried out manually through paper records and physical forms, which are prone to delays, data inaccuracies, and difficulties in reporting on toddler health development. The lack of an integrated information system means that cadres and parents do not have quick and structured access to children's health data. To address this problem, this study designed and developed the TUNAS Posyandu Application, a website-based application capable of digitally managing the recording of toddler check-ups, immunizations, health histories, and activity reports. This study uses the Waterfall approach, starting from needs analysis using the PIECES method, system design with UML, implementation using web technology and MySQL database, and testing using Black Box Testing. The main features of the system include child data management, examination result recording, activity schedule management, access to health history by parents, and a reporting dashboard for cadres and sub-districts. Testing results show that all features function according to user needs and can improve the efficiency of cadres' work, the accuracy of recording, and the regularity of posyandu data. Thus, the TUNAS application is expected to be a digital solution that encourages the improvement of posyandu service quality in a more modern, effective, and integrated manner.*

**Keywords:** *Integrated Health Service Post, Information System, Toddlers, Website, Waterfall.*