WEB-BASED SWIMMING POOL TICKET RESERVATION INFORMATION SYSTEM

(Case Study: Pandan Wangi Swimming Pool, Tanah Bumbu)

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ABSTRACT

The current manual process of ordering tickets for the Pandan Wangi Swimming Pool leads to several issues, including long queues, recording errors, limited capacity monitoring, and delays in transaction reporting. This research aims to design and implement a web-based Swimming Pool Ticket Reservation Information System to enhance operational efficiency and service quality. The development approach involves creating a prototype system through stages of needs analysis, design, implementation, and testing. The system was developed using Laravel 12, Inertia.js, React, and MySQL, and integrated with Cloudinary for storage and Midtrans as the payment gateway. Key features of the system include ticket ordering, digital payments, QR code-based e-ticket issuance, ticket validation, and a management dashboard for both admin and superadmin users. Black-box testing results indicate that all system functions operate correctly and meet the specified requirements. This system has been demonstrated to accelerate the ordering process, reduce queues, prevent data duplication, and provide real-time transaction reports and visitor data.

Keywords: Information System, Ticket Reservation, Swimming Pool, Web Application, QR Code.