

ABSTRAK

Amrullah, Ahmad Hafidh. 2026. *Rancang Bangun Sistem Informasi Manajemen Reservasi Fasilitas Olahraga Berbasis Web Dengan Integrasi WhatsApp Gateway dan Payment Gateway (Studi Kasus: GOR Ma'arif Mojopurno, Magetan)*. Skripsi. Program Studi Teknik Informatika, FT, Universitas PGRI Madiun. Pembimbing (I) Pratiwi Susanti, S.Kom., M.MT. (II) Alim Citra Aria Bima, S.Pd., M.Kom.

Rancang bangun sistem informasi manajemen reservasi fasilitas olahraga berbasis web pada GOR Ma'arif dirancang untuk mengatasi permasalahan sistem reservasi konvensional. Pengelolaan operasional yang manual oleh pengelola tunggal memicu ketidakpraktisan bagi pelanggan, ketidakpastian ketersediaan jadwal, serta tingginya risiko jadwal bentrok (*double-booking*). Tujuan penelitian ini adalah untuk merancang, mengimplementasikan, dan menguji sistem informasi manajemen reservasi fasilitas olahraga berbasis web yang terintegrasi dengan *WhatsApp Gateway* (Fonnte) dan *Payment Gateway* (Midtrans) secara *real-time*. Metode pengembangan sistem yang digunakan dalam mengembangkan perangkat lunak yaitu menggunakan metode ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Hasil penelitian menunjukkan bahwa sistem informasi manajemen reservasi GOR Ma'arif berbasis web ini berhasil diimplementasikan dan diuji. Sistem dibuat menggunakan bahasa pemrograman PHP dengan *framework* Laravel dan basis data MySQL. Sistem ini terintegrasi dengan API Midtrans untuk otomatisasi verifikasi transaksi pembayaran dan API Fonnte sebagai media komunikasi pengiriman bukti kuitansi otomatis langsung ke nomor WhatsApp pelanggan. Berdasarkan hasil pengujian *Black-Box Testing* dan validasi ahli oleh pengelola GOR Ma'arif, seluruh fungsi sistem dinyatakan 100% valid, berfungsi dengan baik sesuai kebutuhan operasional, serta siap dioperasikan. Tools yang digunakan dalam pembuatan sistem ini menggunakan Visual Studio Code untuk proses pengkodeannya.

Kata Kunci: Rancang Bangun, Reservasi, Web, *WhatsApp Gateway*, *Payment Gateway*

ABSTRACT

Amrullah, Ahmad Hafidh. 2026. Design and Development of Web-Based Sports Facility Reservation Management Information System Integrated with WhatsApp Gateway and Payment Gateway (Case Study: GOR Ma'arif Mojopurno, Magetan). Undergraduate Thesis. Informatics Engineering Study Program, FT, Universitas PGRI Madiun. Advisors (I) Pratiwi Susanti, S.Kom., M.MT. (II) Alim Citra Aria Bima, S.Pd., M.Kom.

The web-based sports facility reservation management information system at GOR Ma'arif is designed to overcome conventional reservation issues. The manual operational management by a single manager causes impracticality for customers, uncertainty of schedule availability, and a high risk of double-booking. The purpose of this research is to design, implement, and test a web-based sports facility reservation management information system integrated with WhatsApp Gateway (Fonnte) and Payment Gateway (Midtrans) in real-time. The system development method used in developing the software is the ADDIE (Analysis, Design, Development, Implementation, Evaluation) model. The results of this study show that the web-based reservation management information system for GOR Ma'arif has been successfully implemented and tested. The system was built using the PHP programming language with the Laravel framework and MySQL database. The system is integrated with the Midtrans API for automated payment verification and the Fonnte API to send automatic e-receipt notifications directly to the customer's WhatsApp number. Based on the results of Black-Box Testing and expert validation by GOR Ma'arif management, all system features are declared 100% valid, function properly according to operational needs, and are ready to be operated. The tool used in creating this system is Visual Studio Code for the coding process.

Keywords: Design and Development, Reservation, Web, WhatsApp Gateway, Payment Gateway