

ABSTRAK

UNIVERSITAS AISYIYAH PALEMBANG

FAKULTAS KESEHATAN DAN TEKNOLOGI PROGRAM STUDI SARJANA

TERAPAN MANAJEMEN INFORMASI KESEHATAN

Skripsi

Juni 2026 (Innayah Nurhasanah)

Pengembangan Medijaga: Aplikasi Manajemen Rekam Medis Dan Pengingat Pengobatan Berbasis Kecerdasan Buatan Untuk Pemantauan Kesehatan Pasien.

XX, 88 Halaman, 20 Tabel, 12 Gambar, 1 Daftar Singkatan, 11 Lampiran

Pendahuluan: Pasien dengan penyakit kronis memerlukan kontinuitas informasi, pencatatan kondisi harian, dan dukungan kepatuhan pengobatan. **Tujuan:** Mendeskripsikan pengembangan prototipe MediJaga yang memadukan ringkasan rekam medis pribadi, catatan kesehatan, pengingat obat, panduan alur pelayanan, asisten percakapan berbasis kecerdasan buatan, dan mesin aturan lokal. **Metode:** Penelitian ditempatkan sebagai penelitian pengembangan berbasis dokumentasi artefak. Data yang dianalisis berupa manuskrip sumber, tangkapan layar, arsitektur teknologi, dan data simulasi. Tahapan mencakup identifikasi kebutuhan, perancangan, implementasi, integrasi layanan AI, serta telaah bukti fungsi pada tingkat *prototipe*. **Hasil:** Dokumentasi menunjukkan sembilan modul utama yang terintegrasi menggunakan *React*, *TypeScript*, *Vite*, *Tailwind CSS*, *Express*, *Google Gemini API*, *LocalStorage*, dan *rules engine* lokal. Sistem memperlihatkan alur pencatatan, ringkasan, pengingat, rekomendasi, dan navigasi pelayanan. Namun, skor kesehatan dan kepatuhan merupakan data simulasi; pengujian *black-box* formal, *usability*, validasi klinis, keamanan, dan integrasi *WhatsApp* resmi belum dibuktikan. **Kesimpulan:** MediJaga memiliki nilai sebagai *proof of concept* pendamping manajemen mandiri, tetapi belum dapat dinyatakan efektif atau siap digunakan pada pelayanan nyata sebelum melalui pengujian terstruktur dan tata kelola data yang memadai.

Kata kunci: kecerdasan buatan, manajemen informasi kesehatan, mHealth, pengingat obat, rekam medis

Daftar Pustaka : 25 (2021-2025)

ABSTRACT
UNIVERSITAS AISYIYAH PALEMBANG
FACULTY OF HEALTH AND TECHNOLOGY
APPLIED BACHELOR STUDY PROGRAM IN HEALTH INFORMATION
MANAGEMENT
Final Project Report

June 2026 (Innayah Nurhasanah)

Development of Medijaga: An AI-Powered Medical Record Management and Medication Reminder Application for Patient Health Monitoring
XX , 88 Page, 12 Tables, 12 Picture, 1 Lists of Abbreviations, 11 Appendices

Introduction: Patients with chronic conditions require continuity of information, daily health recording, and support for medication adherence. **Objective:** To describe the development of the MediJaga prototype, which combines a personal medical-record summary, daily health notes, medication reminders, a care-pathway guide, an artificial intelligence conversational assistant, and a local rules engine. **Methods:** The work was positioned as artifact-based development research. The analyzed material comprised the source manuscript, interface screenshots, documented technology architecture, and simulated data. The stages included requirements identification, design, implementation, AI-service integration, and documentary verification of prototype functions. **Results:** The documentation demonstrated nine integrated modules implemented with React, TypeScript, Vite, Tailwind CSS, Express, Google Gemini API, LocalStorage, and a local rules engine. The prototype showed workflows for recording, summarization, reminders, recommendations, and care navigation. However, health and adherence scores were simulated; formal black-box testing, usability assessment, clinical validation, security testing, and official WhatsApp integration were not evidenced. **Conclusion:** MediJaga has value as a self-management proof of concept, but it cannot yet be considered effective or ready for real-world health-service use before structured testing and adequate data governance are completed.

Keywords: artificial intelligence, health information management, medical record, medication reminder, mhealth

References: 25(2021-2025)