ABSTRAK

Layanan konseling gizi di rumah sakit rujukan seperti RSUP Dr. Mohammad Hoesin Palembang memiliki peran penting dalam membantu pasien dengan kebutuhan gizi khusus seperti diabetes, hipertensi, dan obesitas. Namun, sistem yang masih bersifat manual menimbulkan sejumlah tantangan, seperti waktu tunggu yang lama, kesulitan akses layanan bagi pasien dengan keterbatasan mobilitas, dan ketidakteraturan pencatatan riwayat konsultasi. Penelitian ini bertujuan untuk mengembangkan Aplikasi Layanan Konseling Gizi Berbasis *Website* menggunakan *Framework Laravel* guna meningkatkan efisiensi dan aksesibilitas layanan konseling gizi. Pengembangan aplikasi ini dilakukan dengan metode *waterfall*, menggunakan pendekatan *Unified Modeling Language* (UML) dalam perancangan sistem dan *laravel* sebagai kerangka kerja utama implementasi. Aplikasi ini dilengkapi fitur *login* untuk tiga peran pengguna (pasien, ahli gizi, dan admin), kalkulator gizi berbasis "Isi Piringku Cerdas", artikel gizi, riwayat konsultasi, serta integrasi konsultasi via *whatsapp*. Hasil pengujian menunjukkan bahwa seluruh fitur berjalan sesuai dengan fungsionalitas yang dirancang, sebagaimana dibuktikan melalui pengujian *black-box* dan evaluasi terhadap performa sistem. Pengujian *black-box* dilakukan dengan menguji setiap fungsi aplikasi berdasarkan *input* dan *output* tanpa melihat kode program, seperti fitur login, kalkulator gizi, serta penyimpanan dan penampilan riwayat konsultasi. Aplikasi ini dinilai mampu meningkatkan layanan konseling gizi secara digital, serta memberikan kontribusi nyata dalam mendukung transformasi digital layanan kesehatan di RSUP Dr. Mohammad Hoesin Palembang.

Kata kunci: Layanan konseling gizi, *Laravel*, Efisiensi Layanan Kesehatan, *Website*, *Waterfall*, *Unified Modeling Language* (UML)

ABSTRACT

Nutrition counseling services at referral hospitals such as RSUP Dr. Mohammad Hoesin Palembang play a vital role in assisting patients with special dietary needs such as diabetes, hypertension, and obesity. However, the existing manual system presents several challenges, including long waiting times, limited access for patients with mobility constraints, and inconsistent documentation of consultation records. This study aims to develop a Web-Based Nutrition Counseling Service Application using the Laravel framework to improve the efficiency and accessibility of nutritional counseling services. The application was developed using the Waterfall method, with system design based on Unified Modeling Language (UML), and implementation using laravel as the primary framework. The application includes login features for three user roles (patients, nutritionists, and administrators), a 'Smart Plate' nutrition calculator, educational articles, consultation history, and whatsapp-based consultation integration. Testing results showed that all features functioned as designed, as evidenced by black-box testing and system performance evaluations. Black-box testing was conducted by evaluating each application function based on its input and output without reviewing the program's source code covering features such as login, the nutrition calculator, and consultation history storage and display. The application is considered effective in enhancing of digital nutrition counseling services and contributes positively to the digital transformation of healthcare services at RSUP Dr. Mohammad Hoesin Palembang.

Keywords: *Nutrition Counseling Services, Laravel, Healthcare Efficiency, Website Waterfall*, *Unified Modeling Language (UML)*