INTISARI

Kebutuhan akan sistem untuk mengidentifikasi perbedaan gaya belajar siswa di SMK Bakti Purwokerto sangat dibutuhkan untuk membantu proses pembelajaran. Penelitian ini bertujuan merancang dan membangun antarmuka website deteksi gaya belajar siswa menggunakan pendekatan Single Page Application (SPA) berbasis framework Next.js, dengan model Felder-Silverman Learning Style Model (FSLSM) dan instrumen Index of Learning Styles (ILS) yang memetakan empat dimensi: aktif–reflektif, sensing–intuitif, visual–verbal, dan sequential–global. Metode pengembangan yang digunakan adalah Waterfall, melalui tahapan analisis kebutuhan, perancangan, implementasi, dan pengujian. Data diperoleh melalui studi literatur, wawancara, dan pengujian langsung oleh pengguna. Hasil menunjukkan bahwa antarmuka yang dibangun mampu menyajikan kuisioner dan hasil deteksi secara interaktif dan cepat. User Acceptance Test (UAT) menghasilkan tingkat kepuasan 93%, yang menandakan sistem dapat diterima dengan baik dan bermanfaat untuk mendukung strategi pembelajaran yang lebih personal. Penelitian selanjutnya disarankan untuk mengintegrasikan sistem dengan basis data akademik sekolah dan menambahkan fitur rekomendasi strategi pembelajaran otomatis agar manfaatnya lebih optimal.

Kata Kunci: Antarmuka Web, Next.js, Single Page Application, FSLSM, ILS.

ABSTRACT

The need for a system to identify differences in student learning styles at SMK Bakti Purwokerto is urgently needed to help the learning process. This study aims to design and build a website interface for detecting student learning styles using a Single Page Application (SPA) approach based on the Next.js framework, with the Felder-Silverman Learning Style Model (FSLSM) model and the Index of Learning Styles (ILS) instrument that maps four dimensions: active–reflective, sensing–intuitive, visual–verbal, and sequential–global. The development method used is Waterfall, through the stages of needs analysis, design, implementation, and testing. Data was obtained through literature studies, interviews, and hands-on testing by users. The results show that the built interface is able to present questionnaires and detection results interactively and quickly. The User Acceptance Test (UAT) results in a 93% satisfaction rate, which indicates that the system is well accepted and useful to support more personalized learning strategies. Further research is suggested to integrate the system with the school's academic database and add an automated learning strategy recommendation feature to optimize its benefits.

Keywords: Web Interface, Next.js, Single Page Application, FSLSM.