

ABSTRAK

Kebutuhan akan sertifikasi profesi di perguruan tinggi mendorong perlunya sistem yang efisien dan terintegrasi dalam pelaksanaan uji kompetensi. Saat ini, proses yang dilakukan oleh Lembaga Sertifikasi Profesi (LSP) di Fakultas Ilmu Komputer Universitas Pembangunan Nasional “Veteran” Jakarta masih bersifat manual, seperti penggunaan formulir APL 01 dan APL 02 berbasis kertas. Penelitian ini bertujuan untuk mengembangkan Sistem Informasi Uji Kompetensi Sertifikasi Komputer (SIJIKOMKOM) berbasis web menggunakan metode *Dynamic Systems Development Method* (DSDM). Data dikumpulkan melalui studi literatur dan penyebaran kuesioner berbasis *WebQual* 4.0 yang mencakup aspek *Usability*, *Information Quality*, dan *Service Interaction Quality*. Kuesioner disebarakan kepada 378 mahasiswa Fakultas Ilmu Komputer angkatan 2021 dari tiga program studi yang memenuhi syarat mengikuti sertifikasi. Untuk membantu penilaian, disertakan tangkapan layar antarmuka *website* dalam kuesioner. *Website* dibangun menggunakan MySQL dan dikembangkan dengan HTML, CSS, *JavaScript*, serta PHP berbasis *Laravel*. Hasil pengolahan data menunjukkan bahwa seluruh indikator pada ketiga variabel dinilai valid dan reliabel, dengan nilai indeks individual berada pada rentang 56% hingga 69%. Pengujian sistem menggunakan metode *black-box* membuktikan bahwa seluruh fitur berjalan sesuai fungsi. Fitur-fitur tersebut mencakup pendaftaran, pengelolaan skema dan jadwal, verifikasi, serta pelaporan hasil uji secara *real-time*. Sistem SIJIKOMKOM diharapkan menjadi solusi digital yang meningkatkan efisiensi dan transparansi dalam pelaksanaan uji kompetensi di lingkungan fakultas.

Kata kunci: SIJIKOMKOM, uji kompetensi, LSP, sistem informasi, DSDM, *WebQual*

ABSTRACT

The demand for professional certification in higher education emphasizes the need for an efficient and integrated system in conducting competency assessments. Currently, the processes carried out by the Professional Certification Institute (LSP) at the Faculty of Computer Science, Universitas Pembangunan Nasional “Veteran” Jakarta, are still manual, such as the use of paper-based APL 01 and APL 02 forms. This study aims to develop a web-based Computer Competency Certification Information System (SIJIKOMKOM) using the Dynamic Systems Development Method (DSDM). Data were collected through literature review and distribution of questionnaires based on the WebQual 4.0 framework, which covers aspects of Usability, Information Quality, and Service Interaction Quality. The questionnaire was distributed to 378 students from the 2021 cohort across three study programs in the Faculty of Computer Science who met the eligibility criteria for certification. Interface screenshots were included in the questionnaire to assist respondents in the evaluation process. The website was developed using MySQL as the database and implemented with HTML, CSS, JavaScript, and PHP with the Laravel framework. Data analysis showed that all indicators across the three variables were considered valid and reliable, with individual index scores ranging from 56% to 69%. System testing using the black-box method demonstrated that all features functioned as expected. These features include participant registration, scheme and schedule management, verification, and real-time reporting of assessment results. SIJIKOMKOM is expected to serve as a digital solution that enhances efficiency and transparency in the implementation of competency assessments within the faculty.

Keywords: *SIJIKOMKOM, competency test, LSP, information system, DSDM, WebQual*