

ABSTRAK

PT XYZ masih menggunakan pencatatan manual berbasis kertas dalam proses pelaporan hasil uji mikrobiologi lingkungan, yang menimbulkan permasalahan seperti kesulitan pelacakan laporan. Penelitian ini bertujuan merancang, membangun, dan mengevaluasi sistem informasi quality report uji mikrobiologi lingkungan berbasis website menggunakan *framework* Laravel dan metode pengembangan *scrum*, dengan analisis kebutuhan menggunakan metode PIECES. Hasil pengujian *user acceptance testing* (UAT) menunjukkan tingkat keberhasilan 100% dari seluruh *test case* yang diujikan, dan hasil *system usability scale* (SUS) menunjukkan bahwa sistem informasi quality report uji mikrobiologi lingkungan memiliki tingkat usabilitas yang baik dan dapat diterima dengan baik oleh pengguna.

Kata Kunci: Sistem Informasi, *Quality Report*, Uji Mikrobiologi Lingkungan, *Scrum*

ABSTRACT

PT XYZ still uses paper-based manual record-keeping in the process of reporting environmental microbiology test results, which causes problems such as difficulty in tracking reports. This study aims to design, develop, and evaluate a web-based environmental microbiology test quality report information system using the Laravel framework and the Scrum development method, with requirements analysis using the PIECES method. The results of the user acceptance testing (UAT) showed a 100% success rate for all test cases tested, and the results of the System Usability Scale (SUS) indicated that the environmental microbiological testing quality report information system has a good level of usability and is well-received by users.

Keywords: *Information System, Quality Report, Environmental Microbiology Testing, Scrum*