

ABSTRAK

IMPLEMENTASI *SOFTWARE PRODUCT QUALITY* BERDASARKAN MODEL ISO/IEC 25010 DALAM PENGUJIAN *WEBSITE* PT.INDONESIA TEKNOLOGI PRENEUR (STUDI KASUS: DISNAKER KABUPATEN XYZ)

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Website Disnaker Kabupaten XYZ merupakan situs ketenagakerjaan milik salah satu kabupaten di provinsi Sumatera Selatan. Penelitian ini bertujuan mengimplementasikan model kualitas perangkat lunak ISO/IEC 25010 untuk menguji kualitas website Disnaker. Evaluasi dilakukan pada karakteristik *Functional Suitability*, *Performance Efficiency*, *Usability*, dan *Portability* dengan metode *Software Testing Life Cycle* (STLC). Pengujian dilakukan menggunakan berbagai alat seperti Selenium IDE, Katalon Recorder, JMeter, Maze, Useberry, dan BrowserStack. Hasil pengujian menunjukkan bahwa website Disnaker memiliki kualitas baik pada karakteristik *portability*, *performance efficiency*, dan *functional suitability*, namun karakteristik *usability* terindikasi membutuhkan peningkatan. Pada *Portability*, website menunjukkan kompatibilitas 99,01%, meski tidak mendukung Safari versi 13.1 pada MacOS Catalina. Karakteristik *fungsiional suitability* dengan sub-karakteristik *correctness* memperoleh persentase keberhasilan 87,23%, sub-karakteristik *appropriateness* 92,5% dengan indeks kepuasan "Sangat Memuaskan". Sedangkan sub-karakteristik *completeness* memperoleh nilai 0,95, mendekati 1, menandakan cakupan fungsional yang baik. *Usability* memperoleh skor 89% pada Maze dan 87% pada Useberry. Sementara itu, sistem menunjukkan performa waktu respons di bawah 10 detik tanpa *error*, mencerminkan efisiensi kinerja yang sangat baik. Hasil tersebut dapat digunakan sebagai perbaikan untuk peningkatan kualitas guna memenuhi kebutuhan pengguna serta standar perangkat lunak yang lebih tinggi.

Kata Kunci : Disnaker Kabupaten XYZ ; ISO/IEC 25010; Pengujian Perangkat Lunak; Kualitas Website.

ABSTRACT

IMPLEMENTATION OF SOFTWARE PRODUCT QUALITY BASED ON ISO/IEC 25010 MODEL IN WEBSITE TESTING PT.INDONESIA TEKNOLOGI PRENEUR (CASE STUDY: DISNAKER XYZ DISTRICT)

By

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The website Disnaker Kabupaten XYZ is a portal belonging to one of the districts in South Sumatra province. This study aims to apply the ISO/IEC 25010 software quality model to evaluate the quality of the Disnaker website. The evaluation focuses on the characteristics of Functional Suitability, Performance Efficiency, Usability, and Portability, using the Software Testing Life Cycle (STLC) method. Testing is conducted using various tools, such as Selenium IDE, Katalon Recorder, JMeter, Maze, Useberry, and BrowserStack. The test results show that the Disnaker website performs well in terms of portability, performance efficiency, and functional suitability, but the usability characteristic indicates that improvement is needed. Regarding portability, the website shows 99.01% compatibility, although it does not support Safari version 13.1 on macOS Catalina. The functional suitability characteristic, with the correctness sub-characteristic, achieved a success rate of 87.23%. The appropriateness sub-characteristic scored 92.5%, with a satisfaction index of 'Very Satisfactory.' Additionally, the completeness sub-characteristic scored 0.95, close to 1, indicating good functional coverage. Usability scored 89% on Maze and 87% on Useberry. Meanwhile, the system demonstrated a response time of under 10 seconds without errors, reflecting excellent performance efficiency. These results can be used to guide improvements for enhancing quality to meet user needs and higher software standards

Keywords: The Website Disnaker Kabupaten XYZ; ISO/IEC 25010; Software Testing; Website Quality.