

EVALUASI DAN PENGEMBANGAN DESAIN ANTARMUKA PADA WEBSITE MENGGUNAKAN USER RESEARCH DAN SECURITY ANALYSIS

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ABSTRAK

Website Pemerintah Desa merupakan sarana pemanfaatan teknologi informasi untuk meningkatkan pelayanan publik dan komunikasi antara pemerintah desa dan masyarakat. Kesulitan dalam memberikan desain antarmuka yang intuitif serta sistem keamanan yang kuat masih menjadi permasalahan yang perlu diperhatikan. Penelitian ini bertujuan mengevaluasi dan mengembangkan desain antarmuka website pemerintah desa dengan fokus pada aspek kegunaan dan keamanan. Kuesioner QUIS digunakan untuk mengukur *usability* (kepuasan, efektivitas, efisiensi), sedangkan *Vulnerability Assessment* dengan tools acunetix digunakan untuk analisis keamanan. Hasil awal menunjukkan beberapa indikator dalam kategori “Cukup”, seperti *Overall Reaction to the Software* (2,79), *Screen* (2,71), dan *Learning* (2,65), sedangkan *Terminology and System Information* (3,96) dan *System Capabilities* (3,95), berada di kategori “Tinggi”. Pemindaian dengan Acunetix menunjukkan kerentanan ditingkat “*Low Severity*”. Pengembangan desain berbasis evaluasi menghasilkan peningkatan signifikan pada tampilan dan kemudahan, dengan nilai akhir *Overall Reaction to the Software* (4,19), *Screen* (4,13), *Terminology and System Information* (4,23), *Learning* (4,21), dan *System Capabilities* (4,2) dalam kategori “Tinggi”. Penelitian ini membuktikan bahwa pendekatan *User Research* dan *Security Analysis* efektif dalam meningkatkan kegunaan dan kepercayaan pengguna terhadap website pemerintah desa.

Kata Kunci: Evaluasi, Desain Antarmuka, *User Research*, *Security Analysis*, QUIS.

EVALUATION AND DEVELOPMENT OF INTERFACE DESIGN ON THE WEBSITE USING *USER RESEARCH* AND *SECURITY* ANALYSIS

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ABSTRACT

The Village Government Website is a means of utilizing information technology to improve public services and communication between the village government and the community. Difficulties in providing an intuitive interface design and a strong security system are still problems that need attention. This study aims to evaluate and develop the village government website design interface with a focus on usability and security aspects. The QUIS questionnaire was used to measure usability (satisfaction, effectiveness, efficiency), while the Vulnerability Assessment with the Acunetix tool was used for security analysis. Initial results showed several indicators in the "Enough" category, such as Overall Reaction to the Software (2.79), Screen (2.71), and Learning (2.65), while Terminology and System Information (3.96) and System Capabilities (3.95), were in the "High" category. Scanning with Acunetix showed vulnerabilities at the "Low Severity" level. The development of evaluation-based design resulted in significant improvements in appearance and usability, with final scores for Overall Reaction to the Software (4.19), Screen (4.13), Terminology and System Information (4.23), Learning (4.21), and System Capabilities (4.2) in the "High" category. This study proves that the User Research and Security Analysis approach is effective in increasing the usability and user trust in the village government website.

Keywords: *Evaluation, Interface Design, User Research, Security Analysis, QUIS.*