PERANCANGAN DASHBOARD VIDEO DIGITAL SIGNAGE BERBASIS WEBSITE UNTUK MENINGKATKAN EFISIENSI DENGAN METODE WATERFALL PADA BIRO SDM KEMENDAGRI

ABSTRAK

Pengelolaan konten *digital signage* di Biro SDM Kementerian Dalam Negeri masih dilakukan secara manual menggunakan *flashdisk*, sehingga pembaruan konten membutuhkan waktu 24 menit dan konten kedaluwarsa dapat tetap ditampilkan. Penelitian ini bertujuan merancang *dashboard* berbasis *website* untuk meningkatkan efisiensi pengelolaan konten. Sistem dikembangkan menggunakan metode *Waterfall* dan analisis PIECES, dengan tiga peran pengguna, yaitu Admin Konten, Supervisor, dan Super Admin. Sistem menyediakan fitur penjadwalan video, *approval* berjenjang, integrasi API WEBROPEG, dan pencatatan aktivitas. Hasil *Black Box Testing* menunjukkan seluruh fungsi utama berjalan sesuai spesifikasi. Waktu pengelolaan konten berkurang dari 24 menit menjadi 1 menit 56 detik atau meningkat efisien sebesar 91,94%. UAT terhadap 12 responden memperoleh skor rata-rata 4,32 dari 5 dengan kategori "Sangat Setuju". Sistem terbukti meningkatkan efisiensi dan keteraturan pengelolaan konten.

Kata kunci: Dashboard, Digital *Signage*, *Website*, *Waterfall*, Efisiensi, Manajemen Konten, Video Management

DESIGN OF A WEB-BASED DIGITAL SIGNAGE VIDEO DASHBOARD TO IMPROVE EFFICIENCY USING THE WATERFALL METHOD AT THE HUMAN RESOURCES BUREAU OF THE MINISTRY OF HOME AFFAIRS

ABSTRACT

Digital signage content management at the Human Resources Bureau of the Ministry of Home Affairs is still performed manually using USB flash drives, causing content updates to take 24 minutes and allowing expired content to remain displayed. This study aims to develop a web-based dashboard to improve content management efficiency. The system was developed using the Waterfall method and PIECES analysis, with three user roles: Content Administrator, Supervisor, and Super Administrator. It provides video scheduling, hierarchical approval, WEBROPEG API integration, and activity logging. Black Box Testing showed that all main functions operated according to specifications. Content management time decreased from 24 minutes to 1 minute 56 seconds, representing a 91.94% efficiency improvement. UAT involving 12 respondents produced an average score of 4.32 out of 5, categorized as "Strongly Agree." The system successfully improved the efficiency and organization of digital signage content management.

Keywords: Dashboard, Digital Signage, Website, Waterfall, Efficiency, Content Management, Video Management