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SISTEM INFORMASI RT DI DESA PEKAJANGAN BERBASIS *MOBILE* DALAM UPAYA MENJADI DESA DIGITAL YANG CERDAS

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ABSTRAK

Perkembangan teknologi yang pesat telah membawa banyak manfaat dalam berbagai aspek kehidupan, termasuk dalam pengelolaan data di tingkat lokal seperti desa. Digitalisasi menjadi langkah penting bagi desa untuk meningkatkan efisiensi, transparansi, dan akurasi dalam tata kelola pemerintahan. Contohnya, Desa Pekajangan menghadapi berbagai kendala akibat pengelolaan data yang masih manual, seperti risiko kehilangan data, keterbatasan akses informasi, dan kesulitan dalam pelaporan. Oleh karena itu, inovasi berupa sistem informasi RT berbasis mobile dapat digunakan dalam mengatasi masalah tersebut. Metode pengumpulan data dilakukan dengan teknik observasi, wawancara, kuesioner dan jurnal ilmiah, penelitian di perpustakaan serta internet. Metode pengembangan sistem yang digunakan adalah model waterfall, dengan melalui 5 tahapan yaitu Requirement Analysis, Design, Development, Testing, dan Maintenance. Metode pengujian sistem menggunakan pengujian White Box, Black Box dan User Acceptance Test (UAT). Melalui tahap dan metode yang digunakan, maka telah dihasilkan Sistem Informasi RT di Desa Pekajangan Berbasis Mobile Dalam Upaya Menjadi Desa Digital yang Cerdas. Aplikasi ini terdapat 6 pengguna yaitu Ketua RT, sekretaris, bendahara, koordinator kebersihan, koordinator keamanan dan warga. Aplikasi ini berisi informasi data warga, pengaduan, kegiatan, fasilitas, KAS, pengurus, pemberitahuan, pendaftaran, dan RKB (Rencana Kegiatan Bulanan). Hasil pengujian menunjukkan bahwa aplikasi yang dibangun sudah berjalan secara fungsional sesuai rancangan dan harapan pengguna tanpa adanya kesalahan atau eror yang terdeteksi serta sudah dapat berjalan di smartphone android. Diharapkan untuk penelitian selanjutnya aplikasi ini dapat dikembangkan lebih baik lagi, terutama dalam hal pencatatan transaksi secara otomatis serta mengintegrasikan metode pembayaran digital seperti e-wallet.

Kata kunci: Sistem Informasi, *Mobile*, Desa Pekajangan RT 19

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THE RT INFORMATION SYSTEM IN PEKAJANGAN VILLAGE IS MOBILE
BASED IN AN EFFORT TO BECOME A SMART DIGITAL VILLAGE

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ABSTRACT

Rapid technological developments have brought many benefits to various aspects of life, including data management at the local level such as villages. Digitalization is an important step for villages to improve efficiency, transparency, and accuracy in governance. For example, Pekajangan Village faces various obstacles due to manual data management, such as the risk of data loss, limited access to information, and difficulties in reporting. Therefore, innovation in the form of a mobile-based RT information system can be used to overcome these problems. The data collection method is carried out using observation techniques, interviews, questionnaires and scientific journals, research in libraries and the internet. The system development method used is the waterfall model, through 5 stages, namely Requirement Analysis, Design, Development, Testing, and Maintenance. The system testing method uses White Box, Black Box and User Acceptance Test (UAT) testing. Through the stages and methods used, the RT Information System in Pekajangan Village Based on Mobile in an Effort to Become a Smart Digital Village has been produced. This application has 6 users, namely the RT Head, secretary, treasurer, cleanliness coordinator, security coordinator and residents. This application contains information on citizen data, complaints, activities, facilities, KAS, administrators, notifications, registration, and RKB (Monthly Activity Plan). The test results show that the application that was built has run functionally according to the design and user expectations without any errors or errors detected and can run on Android smartphones. It is hoped that for further research this application can be developed even better, especially in terms of automatic transaction recording and integrating digital payment methods such as e-wallets.

Keywords: Information System, Mobile, Pekajangan Village RT 19