

RANCANG BANGUN APLIKASI PENGELOLAAN DATA PEMBANGUNAN INFRASTRUKTUR DAN BANTUAN SOSIAL DESA MENTAYAN BERBASIS *WEBSITE*

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ABSTRAK

Pengelolaan data pembangunan infrastruktur dan bantuan sosial memiliki peran penting dalam transparansi pemerintahan desa. Namun, di Desa Mentayan, Kecamatan Bantan, Kabupaten Bengkalis, pengelolaan data masih dilakukan secara manual dan sederhana sehingga menyebabkan keterbatasan akses informasi, potensi kesalahan pencatatan, serta kesulitan dalam pencarian dan pembaruan data. Penelitian ini bertujuan untuk merancang dan membangun aplikasi pengelolaan data berbasis *website* guna meningkatkan transparansi informasi. Pengembangan sistem menggunakan metode *Waterfall*, *framework Laravel*, serta basis data *MySQL/MariaDB*. Hasil penelitian menunjukkan bahwa aplikasi yang dibangun menyediakan fitur penyajian informasi pembangunan infrastruktur dan data penerima bantuan sosial yang dapat diakses secara langsung oleh masyarakat tanpa harus datang ke kantor desa. Aplikasi ini juga dilengkapi dengan fitur pengajuan bantuan sosial secara mandiri oleh masyarakat dengan unggahan berkas Kartu Keluarga (KK) sebagai validasi data, sehingga proses pengajuan tidak lagi dilakukan secara manual melalui RT/RW atau datang langsung ke kantor desa. Selain itu, sistem menyediakan fitur pengelolaan dan perekapan data yang memungkinkan perangkat desa melakukan pencarian, pengolahan, serta pembuatan laporan secara lebih cepat dalam format PDF untuk mendukung kebutuhan administrasi dan pelaksanaan Musyawarah Desa (MUSDES).

Kata Kunci : Pembangunan Infrastruktur, Bantuan Sosial, *Website*, Transparansi, sistem informasi desa.

DESIGN AND DEVELOPMENT OF A WEB-BASED APPLICATION FOR MANAGING DATA ON INFRASTRUCTURE DEVELOPMENT AND SOCIAL ASSISTANCE IN MENTAYAN VILLAGE

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ABSTRACT

The management of data on infrastructure development and social assistance plays a crucial role in the transparency of village governance. However, in Mentayan Village, Banten Subdistrict, Bengkalis Regency, data management is still carried out manually and using rudimentary methods, resulting in limited access to information, potential recording errors, and difficulties in searching for and updating data. This study aims to design and develop a web-based data management application to enhance information transparency. The system was developed using the Waterfall method, the Laravel framework, and a MySQL/MariaDB database. The results show that the developed application provides features for presenting information on infrastructure development and data on social assistance recipients, which the public can access directly without having to visit the village office. The application also includes a feature allowing residents to independently apply for social assistance by uploading their Family Card (KK) as data validation, thereby eliminating the need for manual applications through neighborhood units (RT/RW) or in-person visits to the village office. In addition, the system provides data management and summarization features that allow village officials to search, process, and generate reports more quickly in PDF format to support administrative needs and the implementation of Village Deliberations (MUSDES).

Keywords: *Infrastructure Development, Social Assistance, Websites, Transparency, Village Information Systems.*