PENERAPAN SISTEM INFORMASI
SMART ENVIRONMENT BERBASIS WEB
(Studi Kasus: Balai Desa Tanjungsari)

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Abstrak

Desa Tanjungsari adalah salah satu desa wisata yang terletak di Kecamatan Borobudur, Kabupaten Magelang, Jawa Tengah. Desa ini memiliki beberapa destinasi wisata yang sering dikunjungi oleh wisatawan saat berkunjung ke Candi Borobudur. Saat ini, Desa Tanjungsari mengalami beberapa masalah lingkungan yang dapat mengganggu wisatawan. Hal tersebut berpotensi menurunkan jumlah kunjungan ke Desa Tanjungsari. Dengan demikian, dilakukan penelitian dengan judul Penerapan Sistem Informasi Smart Environment Berbasis Web untuk membangun sistem yang dapat membantu pemerintah dan masyarakat Desa Tanjungsari dalam mengelola lingkungan. Adapun tahapan penelitian yang dilakukan dalam penelitian ini adalah analisis masalah, pengumpulan data, analisis data, perancangan sistem, implementasi sistem, dan pengujian sistem. Pembuatan sistem ini menggunakan framework Laravel, bahasa pemrograman PHP, web server XAMPP, text editor Visual Studio Code, dan web browser Google Chrome. Hasil dari penelitian adalah sistem informasi smart environment berbasis web dapat mempermudah pemerintah dan masyarakat Desa Tanjungsari dalam menjaga dan mengelola lingkungan sekitar. Apabila sistem ini tidak dibuat, maka penanganan lingkungan akan berjalan lambat.

Kata kunci: Sistem, Smart Environment, Berbasis Web

IMPLEMENTATION OF WEB-BASED SMART ENVIRONMENT INFORMATION SYSTEMS
(Case Study: Tanjungsari Village Hall)

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Abstract

Tanjungsari Village is a tourist village located in Borobudur District, Magelang Regency, Central Java. This village has several tourist destinations which are often visited by tourists when visiting Borobudur Temple. Currently, Tanjungsari Village is experiencing several environmental problems that can disturb tourists. This has the potential to reduce the number of visits to Tanjungsari Village. Thus, research was conducted with the title Implementation of a Web-Based Smart Environment Information System to build a system that can help the government and the people of Tanjungsari Village in managing the environment. The research stages carried out in this research are problem analysis, data collection, data analysis, system design, system implementation, and system testing. This system was created using the Laravel framework, the PHP programming language, the XAMPP web server, the Visual Studio Code text editor, and the Google Chrome web browser. The results of the research are that a web-based smart environment information system can make it easier for the government and the people of Tanjungsari Village to maintain and manage the surrounding environment. If this system is not created, environmental management will be slow.

Keywords: System, Smart Environment, Web Based