

PENERAPAN MULTI-TIER ARCHITECTURE PADA PEMBUATAN SISTEM SURAT MENYURAT BERBASIS WEB DI KANTOR DESA PAKNING ASAL

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ABSTRAK

Pemanfaatan teknologi informasi dalam pelayanan administrasi desa menjadi kebutuhan untuk meningkatkan efektivitas dan efisiensi kerja aparatur desa. Proses surat menyurat di Kantor Desa Pakning Asal yang masih dilakukan secara manual menyebabkan keterlambatan pelayanan, kesalahan pencatatan, serta kesulitan dalam pengelolaan arsip surat. Penelitian ini bertujuan untuk menerapkan arsitektur *multi-tier* pada pembuatan sistem surat menyurat berbasis web di Kantor Desa Pakning Asal guna menghasilkan sistem yang terstruktur dan mudah dipelihara. Penerapan arsitektur *multi-tier* dilakukan dengan memisahkan lapisan presentasi, lapisan logika aplikasi, dan lapisan akses data sehingga setiap lapisan memiliki tanggung jawab yang jelas. Hasil penelitian menunjukkan bahwa penerapan arsitektur *multi-tier* mampu meningkatkan keteraturan struktur aplikasi, mempermudah proses pengembangan dan pemeliharaan sistem, serta meningkatkan kualitas pelayanan administrasi surat menyurat di Kantor Desa Pakning Asal.

Kata kunci: *Multi-Tier Architecture*, Sistem Surat Menyurat.

**IMPLEMENTATION OF MULTI-TIER
ARCHITECTURE IN THE DEVELOPMENT OF A WEB-
BASED CORRESPONDENCE MANAGEMENT SYSTEM
AT PAKNING ASAL VILLAGE OFFICE**

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ABSTRACT

The utilization of information technology in village administrative services has become essential to improve the effectiveness and efficiency of village officials' work. The correspondence process at Pakning Asal Village Office, which is still carried out manually, causes service delays, recording errors, and difficulties in managing document archives. This study aims to implement a multi-tier architecture in the development of a web-based correspondence system at Pakning Asal Village Office in order to produce a well-structured and easily maintainable system. The implementation of the multi-tier architecture is carried out by separating the presentation layer, application logic layer, and data access layer so that each layer has clear responsibilities. The results of this study indicate that the implementation of multi-tier architecture improves the structural organization of the application, facilitates system development and maintenance processes, and enhances the quality of administrative correspondence services at Pakning Asal Village Office.

Keywords: Multi-Tier Architecture, Correspondence System.