

ABSTRAK

Astuti, Teresa. 2025. Multi-Roles Based Pada Rancang Bangun Surat Dengan Metode Rapid Application Development (RAD) (Studi Kasus : Perjalanan Dinas Dilingkup Dinas Tphp Kabupaten Magetan) .Skripsi. Program Studi Teknik Informatika, FT, Universitas PGRI Madiun. Pembimbing (I) Latjuba Sofyana, S.T., S.Kom., M.MT., MMSI.(II) Alim Citra Aria Bima, S.Pd., M.Kom.

Perjalanan dinas adalah kegiatan krusial bagi pegawai instansi pemerintah, termasuk Dinas Tanaman Pangan, Hortikultura, dan Perkebunan (TPHP) Kabupaten Magetan, dalam pelaksanaan tugas yang telah ditetapkan. Dinas TPHP bertanggung jawab untuk meningkatkan kinerja melalui kolaborasi antar unit, namun pengelolaan perjalanan dinas masih dilakukan secara konvensional dengan menggunakan *Microsoft Word* untuk dokumen seperti Surat Perintah Tugas (SPT) dan laporan perjalanan. Pendekatan ini sering mengakibatkan kesalahan format dan penulisan, serta memperlambat proses administrasi. Pengelolaan perjalanan dinas yang manual berisiko menimbulkan *human error*, termasuk penulisan nomor ganda dan kesalahan anggaran. Oleh karena itu, diperlukan aplikasi berbasis *web* untuk meningkatkan kontrol dan manajemen perjalanan dinas, termasuk pengelolaan SPD dan biaya akomodasi. Penelitian ini bertujuan merancang dan mengimplementasikan aplikasi Pengelolaan Surat Perjalanan Dinas berbasis *website* di Dinas TPHP Kabupaten Magetan. Metode *Rapid Application Development* (RAD) digunakan untuk pengembangan aplikasi dengan pengujian sistem melalui *functional testing* dan *user acceptance testing*. Hasil dari *functional testing* dengan persentase pengujian sesuai yaitu 99,01% dan untuk pengujian tidak sesuai adalah 0,99%. Hasil dari *user acceptance testing* meliputi 4 kategori yaitu tampilan dengan persentase 83,08% (baik), kemudahan dengan persentase 86,41% (sangat baik), alur dengan persentase 86,41%(sangat baik) dan fungsi dengan persentase 89,81% (sangat baik). Diharapkan, aplikasi ini dapat meningkatkan efisiensi dan efektivitas pengelolaan perjalanan dinas.

Kata Kunci: Surat Perjalanan Dinas, Rancang Bangun, *Website*, *framework Laravel*, RAD.

ABSTRACT

Astuti, Teresa. 2025. *Multi-Roles Based on the Design and Development of Letters Using the Rapid Application Development Method (RAD) (Case Study: Official Travel within the TPHP Office of Magetan Regency)*. Thesis. Study Program of Informatics Engineering, Faculty of Engineering, PGRI University of Madiun. Advisor (I) Latjuba Sofyana, S.T., S.Kom., M.MT., MMSI.(II) Alim Citra Aria Bima, S.Pd., M.Kom.

Business travel is a crucial activity for government agency employees, including the Food Crops, Horticulture, and Plantation Service (TPHP) of Magetan Regency, in carrying out their assigned tasks. The TPHP Service is responsible for improving performance through collaboration between units, but business travel management is still carried out conventionally using Microsoft Word for documents such as Task Orders (SPT) and travel reports. This approach often results in formatting and writing errors, and slows down the administrative process. Manual business travel management is at risk of causing human error, including double-entry numbers and budget errors. Therefore, a web-based application is needed to improve control and management of business travel, including management of SPD and accommodation costs. This study aims to design and implement a website-based Business Travel Letter Management application at the TPHP Service of Magetan Regency. The Rapid Application Development (RAD) method is used for application development with system testing through functional testing and user acceptance testing. The results of functional testing with a percentage of appropriate testing are 99.01% and for inappropriate testing is 0.99%. The results of user acceptance testing include 4 categories, namely appearance with a percentage of 83.08% (good), ease with a percentage of 86.41% (very good), flow with a percentage of 86.41% (very good) and function with a percentage of 89.81% (very good). It is expected that this application can improve the efficiency and effectiveness of business travel management.

Keywords: Official Travel Orders, Design and Development, Website, Laravel Framework, RAD.