

DIAN KARTIKA ARIFIANI, 21.240.0063

RANCANG BANGUN SISTEM PELAYANAN PUSKESWAN DI DINAS
KELAUTAN PERIKANAN DAN PETERNAKAN KABUPATEN BATANG
BERBASIS DESKTOP dibawah Bimbingan Mosses Aidjili, M.Kom dan
Victorianus Aries Siswanto, M.Si

166 + xiv halaman / 86 gambar / 29 tabel/ pustaka 2015–2022

ABSTRAK

Puskesmas di Dinas Kelautan Perikanan dan Peternakan Kabupaten Batang menghadapi kendala dalam pengelolaan rekam medis hewan akibat pencatatan manual, yang menyebabkan duplikasi data dan kehilangan riwayat medis. Sekitar 10% kasus kehilangan kartu terjadi dalam satu bulan terakhir, menghambat efisiensi layanan. Penelitian ini merancang sistem pelayanan berbasis desktop untuk meningkatkan efisiensi dan akurasi operasional. Sistem dikembangkan dengan metode waterfall menggunakan bahasa pemrograman Java, framework JavaFX, dan database MySQL. Pengujian menggunakan metode white box, black box, dan user acceptance testing (UAT). Hasil pengujian menunjukkan bahwa sistem telah berjalan sesuai kebutuhan fungsional dan disetujui petugas Puskesmas. Hasil kuesioner mencatat tingkat kepuasan pengguna sebesar 83,57%, dengan mayoritas responden menilai sistem mudah digunakan dan meningkatkan efisiensi pelayanan. Secara keseluruhan, sistem ini mampu mengatasi permasalahan sebelumnya dan meningkatkan kualitas pelayanan di Puskesmas.

Kata Kunci: Puskesmas, rekam medis hewan, sistem berbasis desktop, JavaFX, MySQL, metode waterfall

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ABSTRACT

The Puskesmas at the Department of Marine Affairs, Fisheries, and Animal Husbandry of Batang Regency faces challenges in managing animal medical records due to manual recording, leading to data duplication and loss of medical history. Approximately 10% of cases involving lost medical cards occurred in the past month, hindering service efficiency. This study designs a desktop-based service system to improve operational efficiency and accuracy. The system was developed using the waterfall method with the Java programming language, the JavaFX framework, and a MySQL database. Testing was conducted using white box, black box, and user acceptance testing (UAT) methods. The test results indicate that the system operates according to functional requirements and has been approved by Puskesmas staff. The questionnaire results recorded a user satisfaction level of 83.57%, with the majority of respondents finding the system easy to use and improving service efficiency. Overall, this system successfully addresses previous issues and enhances service quality at Puskesmas.

Keywords: Veterinary Health Center, animal medical records, desktop-based system, JavaFX, MySQL, waterfall method