

ABSTRAK

Penelitian ini bertujuan untuk mengembangkan sistem administrasi apotek menggunakan metode *Agile Software Development*. Latar belakang penelitian ini didasari oleh kebutuhan apotek akan sistem yang dapat membantu pencatatan data secara digital, mulai dari pengelolaan data obat, supplier, member, tenaga teknis kefarmasian (TTK), hingga transaksi pembelian dan penjualan. Sistem ini dirancang untuk memudahkan admin dalam menjalankan operasional harian dan mengurangi kesalahan pencatatan yang sering terjadi pada proses manual. Pengembangan sistem dilakukan secara bertahap menggunakan pendekatan Agile, melalui beberapa siklus *sprint*. Tahapan pengembangan meliputi identifikasi kebutuhan, perancangan antarmuka, implementasi fitur, hingga pengujian. Pengujian dilakukan menggunakan metode *black-box* dan *white-box* untuk memastikan sistem berfungsi sesuai kebutuhan dan logika program berjalan dengan benar. Hasil penelitian menunjukkan bahwa sistem mampu menjalankan fungsi utama dengan baik dan membantu proses administrasi apotek menjadi lebih rapi, efisien, dan terdokumentasi secara digital.

Kata Kunci: Sistem administrasi apotek, *Agile Software Development*, *black-box testing*, *white-box testing*.

ABSTRACT

This study aims to develop a pharmacy administration system using the Agile Software Development method. The background of this research is based on the need for a system that can support digital data recording, including the management of medicine data, suppliers, members, pharmaceutical technical staff, as well as purchase and sales transactions. The system is designed to help the admin perform daily operations more easily and reduce errors that often occur in manual processes. The development process is carried out in stages using the Agile approach through several sprint cycles. The development stages include needs identification, user interface design, feature implementation, and testing. Testing is conducted using black-box and white-box methods to ensure the system works according to requirements and the program logic runs correctly. The results show that the system performs its main functions well and supports a more efficient, organized, and digitally documented pharmacy administration process.

Keywords: Pharmacy administration system, Agile Software Development, black-box testing, white-box testing.