

INTISARI

Untuk mengatasi kendala pencatatan stok dan penentuan *Restock* yang masih manual di tengah tingginya transaksi harian, Apotek Ridha Farma memerlukan sistem digital. Oleh karena itu, dikembangkanlah sistem *Point of Sale* (POS) yang mengadopsi algoritma *Simple Additive Weighting* (SAW). Sistem ini merangking prioritas belanja obat secara objektif berdasarkan lima indikator: tingkat penjualan, sisa persediaan, harga, batas kedaluwarsa, dan kebijakan pemilik, sekaligus dilengkapi alarm masa berlaku obat. Berdasarkan evaluasi menggunakan analisis PIECES, Black Box Testing mengonfirmasi bahwa seluruh fungsionalitas berjalan lancar tanpa kendala. Lebih lanjut, *User acceptance testing* (UAT) menunjukkan tingkat penerimaan pengguna yang tinggi, yakni sebesar 89,63%. Dapat disimpulkan, integrasi sistem POS berbasis SAW ini sukses mengotomatisasi operasional apotek, mempercepat pencatatan transaksi, dan membantu pemilik mengambil keputusan terkait ketersediaan obat secara jauh lebih terstruktur.

Kata kunci: Sistem pendukung keputusan, *Simple Additive Weighting*, *Point of Sale*, *Restock* Obat, Persediaan Obat, *User acceptance testing*.

ABSTRACT

To overcome the inefficiencies of manual inventory tracking and Restock planning amidst high daily transactions, Ridha Farma Pharmacy required a digital solution. Consequently, a Point of Sale (POS) system integrated with the Simple Additive Weighting (SAW) algorithm was developed to address this issue. This system objectively ranks medication Restocking priorities based on five criteria—sales volume, remaining stock, price, expiration date, and the owner's priority—while also featuring a monitoring system for expiring drugs. Evaluated using the PIECES framework, Black Box Testing confirmed that all core functionalities operated flawlessly. Furthermore, User acceptance testing (UAT) demonstrated a highly positive user response, achieving an acceptance rate of 89.63%. In conclusion, the implementation of this SAW-based POS system successfully automates the pharmacy's operations, streamlines transaction recording, and empowers the owner to make structured and efficient inventory decisions.

Keyword: Point of Sale, Simple Additive Weighting, Decision Support System, Drug Restock, Drug Inventory, User acceptance testing.