

INTISARI

Pengelolaan inventaris sarana prasarana merupakan aspek penting dalam menunjang kegiatan lembaga pendidikan, namun MIN 3 Klaten masih menggunakan pencatatan manual yang rawan kehilangan, lambat, dan berisiko salah sehingga menyulitkan pelacakan data serta penyusunan laporan. Untuk mengatasi hal tersebut, penelitian ini merancang dan membangun sistem inventaris berbasis web menggunakan metode *Rapid Application Development* (RAD) dengan *framework* Laravel dan perancangan UML (*use case, activity, class diagram*). Sistem yang dikembangkan memiliki fitur utama berupa pengkodean barang otomatis, pencatatan peminjaman dan pengembalian, monitoring data inventaris, serta pembuatan laporan digital. Pengujian dilakukan dengan *Black Box Testing* dan *User Acceptance Testing* (UAT) bersama petugas administrasi, dan hasilnya menunjukkan seluruh fungsi berjalan baik, mudah digunakan, menampilkan data *real-time*, serta menghasilkan laporan otomatis. Dengan demikian, sistem dinyatakan layak dan dapat membantu digitalisasi inventaris di MIN 3 Klaten secara lebih cepat, akurat, dan efisien.

Kata kunci: Sistem Inventaris, Sarana Prasarana, *Website*, *Rapid Application Development*, Laravel.

ABSTRACT

Inventory management of facilities and infrastructure is an essential aspect in supporting the activities of educational institutions. However, MIN 3 Klaten still relies on manual recording methods that are prone to loss, delays, and errors, which complicates data tracking and report generation. To address this issue, this research designs and develops a web-based inventory sistem using the Rapid Application Development (RAD) method with the Laravel framework and UML modeling (use case, activity, class diagrams, and database structure). The sistem provides key features such as automatic item coding, recording of borrowing and returning, inventory monitoring, and digital report generation. Testing was conducted using Black Box Testing and User Acceptance Testing (UAT) with administrative staff, and the results show that all main functions work properly, are easy to use, display real-time data, and generate automatic reports. Therefore, the sistem is declared feasible and can support the digitalization of inventory management at MIN 3 Klaten in a faster, more accurate, and efficient manner.

Keywords: Inventory Sistem, Facilities and Infrastructure, Website, Rapid Application Development, Laravel.