

PERANCANGAN APLIKASI MANAJEMEN INVENTORY BAHAN BAKU (STUDI KASUS : TAKA-YAKI) BERBASIS WEBSITE

ABSTRAK

Pengelolaan inventori bahan baku yang efektif merupakan faktor kunci dalam bisnis kuliner, termasuk pada usaha Taka-Yaki. Namun, usaha ini masih menghadapi kendala dalam pencatatan stok bahan baku yang dilakukan secara manual, sering terjadi kesalahan input data, serta kesulitan dalam memantau stok secara real-time. Penelitian ini bertujuan mengembangkan aplikasi manajemen inventori bahan baku berbasis *website* untuk meningkatkan akurasi dan efisiensi pengelolaan stok. Pengembangan sistem menggunakan metode RAD (Rapid Application Development) dengan framework Laravel, mencakup tahapan requirement planning, user design, construction, dan cutover. Hasil pengujian blackbox testing menunjukkan aplikasi berfungsi sesuai kebutuhan. Implementasi sistem ini berhasil mengurangi kesalahan manual dan meningkatkan efisiensi pengelolaan inventori.

Kata Kunci: Aplikasi Inventori, Bahan Baku, RAD, Laravel, Blackbox Testing

DEVELOPMENT OF A WEB-BASED INVENTORY MANAGEMENT APPLICATION FOR RAW MATERIALS (CASE STUDY: TAKA-YAKI)

ABSTRACT

Efficient inventory control of raw materials is a vital component for the success of culinary enterprises, including Taka-Yaki. Despite its importance, the business continues to face obstacles such as manual tracking of stock levels, frequent inaccuracies in data entry, and the lack of real-time inventory visibility. This study proposes the development of a web-based inventory management application aimed at improving the precision and effectiveness of stock oversight. The system was built using the Rapid Application Development (RAD) approach and implemented with the Laravel framework, covering the phases of requirement analysis, user interface design, development, and deployment. Results from blackbox testing confirmed the system's ability to meet functional requirements. The application's deployment significantly reduced manual errors and led to notable gains in the overall efficiency of inventory operations.

Keywords: *Inventory Application Management, Raw Materials, RAD, Laravel, Blackbox Testing*