

UNIVERSITI TEKNOLOGI MARA

**INVENTORY MANAGEMENT SYSTEM FOR RICO
CAFE & WESTERN INTEGRATING JUST-IN-TIME
(JIT) REPLENISHMENT ALERTS**

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ABSTRACT

This project presents the development of an Inventory Management System (IMS) for RICO Cafe & Western, aimed at overcoming the inefficiencies of manual stock tracking such as delays, stockouts, and human error. The objective is to design a digital system that automates inventory management and integrates Just-In-Time (JIT) replenishment alerts to ensure timely stock control. The system was developed using the Adapted Waterfall model and implemented as a web-based platform with dedicated access for three user roles: Manager, Staff, and Supplier. Key features include real-time stock updates, automated -stock alerts, report generation, and supplier invoice uploads. A user evaluation involving 30 respondents was conducted, showing high satisfaction in terms of usefulness, interface design, reliability, and functionality—where over 93% of users confirmed system accuracy and effectiveness. In conclusion, the IMS has proven to enhance operational efficiency, reduce manual errors, and provide structured inventory control. It also holds potential for future expansion through predictive analytics, mobile app integration, and multi-branch support.

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