ABSTRACT

The (food and beverage/F&B) industry has experienced significant growth, but its operational efficiency is often hampered by challenges in raw material management. Fundamental problems faced by businesses include inaccurate stock data, difficulties in estimating requirements, and dependence on manual processes that are prone to error. This research focuses on the gap in raw material utilization for production, which directly leads to waste, increased costs, and reduced service quality.

To address these challenges, a web-based inventory management system named Sop Burtok has been developed. This system is designed to facilitate businesses in recording raw materials, monitoring stock in real-time, predicting production needs, and generating digital reports. The system development adopts frontend technologies such as HTML, CSS, and JavaScript, which are integrated with REST API and cloud databases to ensure ease of access and data security.

The results of implementation and testing show that the system has successfully improved operational efficiency. Black Box functional testing confirmed that all core features, including login, inventory, production, and reporting, operate according to specifications. Additionally, a usability survey involving 30 respondents yielded an average satisfaction rate of 84%, which falls into the "good" category. It is concluded that the website system effectively supports raw material management optimization and strengthens data-driven decision-making processes for the F&B business.

Keywords: Inventory Management, Online System, Food Business, Sop Burtok