

ABSTRACT

The development of information technology is very rapid, it has a significant impact especially in the field of business and enterprise. Toko Zaitun is an MSME engaged in the sale of fruits in Dumai City, Riau, still facing challenges in inventory management because it still uses a manual recording system. This study aims to design a web-based stock information system using the Rapid Application Development (RAD) method so that it can improve employee work quickly and accurately at Toko Zaitun in inventory management. The problems faced by Toko Zaitun include difficulties in monitoring stock in real-time, and the risk of errors in recording stock manually, which can result in losses. This requires the development of an information system that can carry out the process of recording and monitoring stock. The research method uses the RAD approach which consists of four main stages: requirement planning, user design, construction, and cutover. Data collection was carried out through semi-structured interviews with shop owners and employees, as well as direct observation of the business processes in the shop. The system design uses the Unified Modeling Language (UML) to visualize the system design, including use case diagrams, activity diagrams, and sequence diagrams. The designed system will be tested using the blackbox testing method and User Acceptance Test (UAT) to ensure its suitability with user needs. The results of the study indicate that the designed web-based stock information system successfully meets user needs functionally. This is evidenced by the results of the UAT test which are categorized as "very good". This system is able to present stock information in real-time, reduce recording errors, and accelerate the process of monitoring and reporting stock. With the implementation of this system, Toko Zaitun can now make managerial decisions more quickly and accurately.

Keywords: *Information System, Stock, Rapid Application Development (RAD), UMKM, Inventory Management, Web.*