

ABSTRACT

Web-Based Design and Development of the Development Jaya University Canteen Operational Application Using the Rapid Application Development Method

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Technological advancements have significantly impacted various aspects of life, including operational services in educational institutions' canteens. At Universitas Pembangunan Jaya, vending machines provide convenience for students and staff to quickly and practically access products. However, manually managing transactions and monitoring stock levels remains a challenge, reducing operational efficiency. This research aims to design and develop a web-based canteen operational application that effectively manages vending machine transactions and monitors tenant rental payments. The system is developed using the Rapid Application Development (RAD) method and employs Unified Modeling Language (UML) diagrams to map business processes. The resulting application features key functionalities such as stock monitoring, automated transaction recording, and tenant payment tracking. The implementation results indicate that the new system improves vending machine management efficiency and supports structured canteen business processes.

Keywords : *System Design, Canteen Operational Application, Vending Machine, Web-Based System, Rapid Application Development.*