PROTOTYPE DESIGN OF A DIGITAL SISTEM FOR HOSPITAL ASSET INVENTORY AND LOGISTIC MANAGEMENT USING A RAPID APPLICATION DEVELOPMENT (RAD) APPROACH

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SUMMARY

***Background**: Asset and logistics inventory management plays a crucial role in supporting the quality of service and operational efficiency of hospitals. However, many hospitals still rely on manual or semi-digital systems, which carry the risk of recording errors, inventory data discrepancies, delays in the distribution of goods, and an increased risk of stockouts and expired items. Therefore, a digital system capable of managing inventory more effectively and in an integrated manner is needed. **Objective**: To produce a prototype design for an integrated digital hospital asset and logistics inventory management system called "Si PASTI." **Method**: The prototype was developed using the Rapid Application Development (RAD) approach. The system interface was designed using Figma and Draw.io. **Results**: The final output is a desktop-based prototype of Si PASTI (Integrated Asset and Logistics Inventory Management System). It has been tested on four hospital respondents, yielding promising results and demonstrating its practical applicability. **Conclusion**: The Si PASTI prototype can serve as a digital innovation tool to help hospitals improve the efficiency of asset and logistics inventory management, minimize the risks of stockouts and overstocking, and reduce waste caused by expired items.*

***Keywords**: FEFO, FIFO, Inventory, Prototype, RAD*