IMPLEMENTING A SMART CAMPUS ASSET MAINTENANCE AND REPORTING SYSTEM WITH AUTO-SCHEDULING TECHNOLOGY

(Case Study: Multimedia College Yogyakarta)

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ABSTRACT

The asset maintenance system at Yogyakarta Multimedia College (STMM Yogyakarta) is currently managed manually using paper forms, resulting in disorganized record-keeping, delayed damage reporting, and inefficient maintenance scheduling. This research aims to design and develop a web-based Smart Asset Maintenance System featuring Auto-Scheduling and Smart Recommendations to enhance the efficiency and transparency of campus asset management. The development process includes needs analysis, system design using Unified Modeling Language (UML), and web-based system implementation. The results demonstrate that the developed system can automate damage reporting, maintenance scheduling, and the selection of responsible personnel based on system recommendations. Additionally, the system provides rescheduling suggestions if an asset experiences repeated damage within a short period and offers a structured summary of maintenance costs. Implementing this system improves record-keeping, accelerates damage management, and supports data-driven decision-making in campus asset management.

Keywords: Asset Maintenance Information System, Auto-Scheduling, Smart Recommendations, Campus Asset Management.