ABSTRACT

In order to guarantee transparency, performance monitoring, and stakeholder accountability, project management must be integrated with digital technologies due to the growing complexity of large-scale infrastructure projects. This final project focuses on the "Independent Solar Power Generation System Project: Maintenance Phase in 65 Locations in Indonesia" managed by PT XYZ, where significant challenges in reporting consistency, coordination, and real-time tracking were identified. In PT XYZ, current project monitoring relies on fragmented, manual methods, resulting in data inaccuracies, delayed decision-making, and weak oversight during the maintenance phase.

This final project aims to design a tailored Project Management Information System (PMIS) features framework using the Quality Function Deployment (QFD) method. It begins with identifying critical user needs through stakeholder interviews and questionnaires, which are then translated into technical responses via the House of Quality (HoQ), and this process produces a prioritized list of system features, leading to the conceptualization of a low-fidelity prototype that emphasizes centralized monitoring, standardized reporting, data authenticity, and stakeholder communication.

This final project results are the PMIS framework that serves not only as a problem-driven solution but also as a digital transformation blueprint for project environments lacking existing digital infrastructure. By aligning system design with real field conditions and validated stakeholder input, the proposed PMIS is expected to significantly improve project performance monitoring, accountability, and data integration across all project sites during the maintenance phase.

Keywords: *Project Management, Project Management Information System (PMIS), Quality Function Deployment (QFD), Project Performance, Project Maintenance*