

***DESIGN AND CONSTRUCTION OF A WEB-BASED PROJECT
MONITORING INFORMATION SYSTEM***
(Case Study: CV Prima Jaya Solution, Sleman, DIY)

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ABSTRACT

Information technology now plays a crucial role in supporting the operations of electrical construction companies, such as in project monitoring and field communication. CV Prima Jaya Solution, located in Sleman, Yogyakarta Special Region, faced various challenges in its project monitoring process due to its reliance on conventional methods. This often led to late reporting, inaccurate information, difficulties in direct field monitoring, and obstacles in coordination between the team and management. Consequently, the project was at risk of delays, budget overruns, and a decline in the quality of work. To address these challenges, a web-based project monitoring information system was developed that allows for real-time monitoring of work progress. The system was developed using the SDLC (System Development Life Cycle) method with a waterfall approach, encompassing problem identification, requirements analysis, system design, evaluation, and report preparation. The system was tested using black box methods to ensure all functions functioned as expected. The results showed that 30 out of 30 test scenarios were successfully executed, with a 100% success rate. This system successfully facilitated CV Prima Jaya Solution's increased efficiency and transparency in electrical construction project supervision.

Keywords: Project Information System, Real-Time Project Monitoring, SDLC Method, Website