

ABSTRACT

Field project progress management in civil contractors requires an application that can support progress recording, *Monitoring*, and reporting in a more structured manner. In practice, progress documents and field work information are often shared through separate communication media, which may cause several issues such as decentralized document storage, unsynchronized information updates, delayed validation, and difficulty in tracking project progress status. This study aims to design and develop a web-based field project progress *Monitoring* and reporting application for civil contractors using the ICONIX *Process* method, so that the application development process can be carried out more systematically through the stages of requirements, analysis/preliminary design, detailed design, and implementation. The application has implemented using the Laravel framework and supports centralized project progress *Monitoring* and reporting processes, including project data management, progress documents, progress reports, validation, revision, and notifications. The application evaluation was conducted through functional testing using the black-box testing method based on the prepared test scenarios. The test results show that all test scenarios produced outputs that matched the expected results. Therefore, the application is considered to have met the functional requirements and can be used to support field project progress *Monitoring* and reporting in civil contractors in a more structured and integrated manner.

Keywords : Project *Monitoring*, Field Project, Project Reporting, Civil Contractor, ICONIX *Process*, Black-Box Testing.