

ABSTRACT

Task management is the process of planning, monitoring and managing tasks in a project or job to ensure that all tasks are completed efficiently and on time. PT Des Teknologi Informasi is a company that provides services in information and communication technology, facing challenges in software project management due to the high demand from clients for software development. PT Des Teknologi Informasi already has a web-based task management system developed using the CodeIgniter 3 framework. However, this system will no longer be used by PT Des Teknologi Informasi because the company requires a new system that is more aligned with their current business needs, developed using the latest version of the CodeIgniter framework. The old system had four user levels include Head of Department, Admin, Supervisor, and Staff, and it did not have a feature for calculating employee performance, as performance was previously calculated using Microsoft Excel. This was not in line with their current business needs because PT Des Teknologi Informasi wanted to add a Director user level and develop a feature for employee performance calculation, allowing the Director to monitor project progress and employee performance without needing to manually coordinate with the Head of Department, as was the case before. This would make the monitoring of both projects and employee performance more efficient. This research produces a web-based Task Management Information System with five user levels include Director, Head of Department, Admin, Supervisor, and Staff. The system uses the CodeIgniter 4 framework and includes an employee performance calculation feature. The system was developed using the ICONIX Process method, which allows for review at each stage of development. The Task Management Information System has been tested using the black-box testing method with 156 test cases, structured based on predetermined use case scenarios, and all test cases were accepted.

Keywords : Task Management, PT Des Teknologi Informasi, CodeIgniter, ICONIX Process, Black-Box Testing