

PENGEMBANGAN MODUL *PROJECT MANAGEMENT* BERBASIS *ENTERPRISE RESOURCE PLANNING (ERP)* PT XYZ

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ABSTRAK

PT XYZ, sebuah perusahaan di sektor energi, menghadapi kendala fragmentasi data pada sistem manajemen proyek internalnya yang menyebabkan inefisiensi akibat pekerjaan berulang (*double handling*) dan kurangnya integrasi antar divisi. Penelitian ini bertujuan untuk merancang dan membangun *Minimum Viable Product* (MVP) modul *Project Management* menggunakan platform Odoo ERP untuk mengatasi permasalahan tersebut. Metodologi yang digunakan adalah pendekatan hibrida *Water-Scrum-Fall*, yang menggabungkan struktur perencanaan *Enterprise System* dengan fleksibilitas pengembangan *Agile*. Tahapan penelitian meliputi studi lapangan, analisis sistem berjalan, konfigurasi, kustomisasi modul Odoo, serta pengujian fungsional. Hasil penelitian menunjukkan bahwa sistem yang dikembangkan berhasil mengintegrasikan fase inisiasi, perencanaan, eksekusi, hingga penutupan proyek dalam satu ekosistem digital. Berdasarkan hasil *User Acceptance Testing* (UAT), sistem mencapai tingkat keberhasilan fungsional sebesar 96,4% dan memperoleh indeks penerimaan pengguna sebesar 86,67% (Sangat Baik). Implementasi ini terbukti mampu meningkatkan efisiensi operasional melalui sinkronisasi data otomatis antara aktivitas operasional proyek dan pencatatan akuntansi.

Kata Kunci: ERP, Odoo, Manajemen Proyek, *Water-Scrum-Fall*, Efisiensi Operasion

ABSTRACT

PT XYZ, an energy sector company, faced data fragmentation issues within its internal project management systems, leading to inefficiencies caused by double data entry and a lack of cross-departmental integration. This research aims to design and develop a Minimum Viable Product (MVP) for a Project Management module using the Odoo ERP platform to address these issues. The methodology employed is a hybrid Water-Scrum-Fall approach, combining the structured planning of Enterprise Systems with the flexibility of Agile development. The research stages include field studies, current system analysis, configuration, customization of Odoo modules, and functional testing. The results indicate that the developed system successfully integrates the initiation, planning, execution, and closing phases of a project into a single digital ecosystem. Based on User Acceptance Testing (UAT) results, the system achieved a 96.4% functional pass rate and a user acceptance index of 86.67% (Very Good). The implementation is proven to increase operational efficiency through automatic data synchronization between project activities and accounting records.

Keywords: ERP, Odoo, Project Management, *Water-Scrum-Fall*, Operational Efficiency