

ABSTRACT

The growth of information technology requires companies to integrate their business processes into a system. The way the company manages its information system is the key to the success or failure of a business in the modern era. The company's information system that is currently the mainstay is Enterprise Resource Planning (ERP). PT. Otka Tekno Aditama is a start-up company that has used an integrated system called Odoo. PT. Otka Tekno Aditama needs to conduct an evaluation so that the absence of gaps between business processes runs as expected. At present there are no studies that analyze and evaluate ERP Odoo at PT. Otka Tekno Aditama. This study uses Fit / Gap Analysis which is used to determine system gaps followed by Failure Mode Effect Analysis (FMEA) to obtain recommendations for solutions to the implementation of system integration. The evaluation results are in the form of a system recommendation in the form of an Unified Modeling Language (UML) and described as a mock up User Interface in the inventory module. Research data uses primary data and secondary data collection related to information systems. The data validity technique in this study uses the triangulation method. Based on the research results of PT. Otka Tekno Aditama is considered not yet maximally implemented by the company in order to support business processes. After the risk analysis is carried out, there are two (2) processes with the highest RPN value, each of them is 448. They are updating the stock of automatic entry items and updating stock items automatically. In the UML design recommendations, the addition of the OTKA Manufacturer actor and the Quality Control process to the new Inventory business process based on the results of the user requirement and risk analysis. The recommendation is represented by a mock up user interface.

Keywords: Enterprise Resource Planning; Fit/Gap Analysis; FMEA Analysis; Unified Modeling Language; Business Process Evaluation