# ABSTRACT

*With the advancements in technology today, the implementation of Enterprise Resource Planning (ERP) systems has become highly crucial. This is because ERP systems help companies or institutions integrate various business processes, including purchasing, sales, production, finance, and human resources, thereby enhancing business efficiency, effectiveness, and visibility. In implementing an ERP system, selecting the appropriate server infrastructure is one of the most critical aspects. One available option is a desktop-based server, which is located physically within the company or institution. This study aims to determine the suitable perangkat keras specifications to accommodate diverse data and ensure optimal server performance for running the ERP system. Specifically, the study focuses on Odoo17, providing estimated costs and power requirements for establishing an optimal server configuration tailored to the needs of the Faculty of Industrial Engineering at Universitas Telkom. The methodology employed in this research is the Software Development Life Cycle (SDLC). Analysis results, obtained through testing using Postman on various specifications listed on the Odoo website, conclude that the recommended specifications offer the most suitable performance, price, and power consumption for running Odoo17 according to the requirements of the Faculty of Industrial Engineering at Universitas Telkom. Therefore, these analysis findings serve as a reference for determining the optimal specifications for deploying Odoo17.*