

## **ABSTRACT**

This research aims to develop a responsive data input system for dynamic visualization in project management at PT Len Industri (Persero). The main problem identified is the need for project managers to efficiently manage project information, including what is being done, what will be done, and the obstacles faced. The proposed solution is a web-based system that utilizes Gantt Chart to facilitate data input and improve visualization of project progress. A User Centered Design (UCD) approach will be applied to ensure an easy-to-use user interface, reduce user resistance, and maximize system adoption. This development method combines the use of ReactJS for the user interface, NodeJS for the backend, MySQL for the database, and DHTMLX Gantt for data visualization. The initial hypothesis shows that with a well-designed system, project managers can improve accuracy and efficiency in project management and decision-making. This research is expected to provide insight into how an optimized data input system can affect project management in the technology industry.

**Keywords:** Project Management, Data Visualization, User Centered Design, Gantt, Data Input System, MERN, Time Management