ABSTRACT

PT Neural Technologies Indonesia provides solutions for various industries through company practices in telecommunications, healthcare, and mining, offering IT solutions, digital transformation, ERP, business intelligence, and power supply. Efficient server management is crucial to ensure service availability. This project aims to develop an integrated server monitoring dashboard system to enhance operational efficiency. The system is designed to collect data from multiple servers, store it in InfluxDB, and process it for visualization on the monitoring dashboard.

The project methodology includes several stages, starting with a literature review to gather information related to planning and designing the resource server monitoring website, particularly focusing on data processing systems. Data is then collected by integrating Proxmox hypervisor with InfluxDB, enabling data storage in a dedicated database. The next stage involves implementation and development, encompassing server data processing and integration of multiple servers into one. Testing and evaluation are conducted to test data metrics, functionality, performance, and system compatibility, and to gather feedback from end-users for further improvements.

The testing phase verifies the performance of the designed system and gathers data for overall functional analysis. This project successfully processes server data, connects it to databases and agents, and implements detailed performance features such as time-range filters, update intervals, CPU utilization summaries, and Top 5 High Host summaries on the dashboard. The data processing system is implemented as planned, effectively collecting, processing, and visualizing server data. All system functions operate as needed, including data collection, storage in InfluxDB, and visualization using Django Bootstrap. This system enhances server monitoring and management efficiency, while improving IT infrastructure security and stability.

Keywords*: server monitoring, integration, data processing*