

ABSTRACT

PT XYZ is a construction company based in Surabaya, East Java, handling commercial building, infrastructure, and housing projects. The company has encountered challenges in project management, including delays caused by frequent information lags due to the semi-manual monitoring and controlling processes, which result in delayed decision-making.

This research aims to develop a project monitoring and controlling dashboard to improve these processes. The dashboard is designed as a visualization tool that can monitor project progress in real-time, providing relevant information to support quick and accurate decision-making. The development process of this project monitoring and controlling dashboard utilizes the waterfall method and Earned Value Management (EVM). It involves a thorough analysis of user requirements and close collaboration with the project management team to ensure that the features provided meet the company's operational needs.

The results of this study indicate that the designed dashboard has successfully met customer needs. Additionally, this dashboard can provide real-time information, reduce communication errors, and improve project data accuracy.

PT. XYZ, a company operating in the construction sector, frequently faces challenges of delays in handling its projects due to frequent delays in information caused by semi-manual monitoring and controlling processes. This research aims to develop a project monitoring and controlling dashboard using the Waterfall method and Earned Value Management. The dashboard is designed to monitor and control project progress information in real-time, thereby reducing the risk of delays and data errors caused by semi-manual processes. The results of this research show that the designed dashboard has successfully met customer needs. Additionally, the dashboard can provide real-time information, reduce the occurrence of miscommunication, and improve the accuracy of project data.

Keywords: Dashboard, Monitoring, Controlling, Waterfall, Earned Value Management.