

ABSTRACT

The ABC Project implemented by PT XYZ experienced a progress deviation of - 8.30% as of April 2025, with the cause of the deviation originating from three tasks that are behind schedule, namely the system design task, the service procurement task, and the operational function testing task, with the highest deviation value found in the system design task. Currently, the system design task has become the main priority to be completed in the ABC Project. Based on the results of interviews and observations, the main cause of the issue in the progress of the system design task originates from three aspects, namely the limitation of information (absence of adequate visualization and revision documentation), process irregularity (lack of performance indicators and unstructured coordination), and human resource constraints (limited number of drafters with double workloads).

The objective of this research is to design a dashboard system to assist the monitoring and controlling process for minimizing the deviation value of system design task in the ABC Project. The system is developed using the integration of Google Forms, Google Sheets, and Looker Studio. The development method used is the Waterfall method due to the system requirements being clearly defined, the development scope being limited, and the technology used having been understood by the stakeholders from the beginning.

The test results show that all dashboard features function properly based on blackbox testing. System validation through the User Acceptance Testing (UAT) method obtained a score of 92.78% in the "very good" category. Therefore, the designed dashboard is expected to fulfill the design objective to assist stakeholders in the completion process of the system design task through an improved monitoring and controlling approach.

Keywords: *Project Dashboard, System Design, Monitoring, Controlling, Waterfall, Looker Studio*