

ABSTRACT

PT. XYZ is an innovation center that focuses on development in the field of information technology. PT. XYZ already has a lot of information technology projects that produce software such as applications. PT.XYZ is involved in the process of developing the X University Information System Application. The project has 37 applications that will be created by dividing 10 teams with each developing a different application. This project has a work duration of 3 years starting from September 2021 to October 2023.

In its implementation, the learning management system project has been amended and does not yet have a clear baseline for each sub-project due to the amendments, resulting in delays in the project. in September 2021 and only implemented in November 2021. This delay is very detrimental to both parties where the loss results in wasted time and costs or is not in accordance with the initial plan of the project.

The design of the scope baseline and schedule baseline as a reference document for the project team produces outputs in the form of WBS, WBS Dictionary, schedule network diagram, and gantt chart. Performance measurement of the project uses the earned value management in order to find out whether the actual project form is in accordance with the plan or not. The project has an SPI value of 0.94 where the value is below 1 which means the project is delayed. In the calculation of the time to estimate, it is predicted to be completed in September 2023 in 24.5 months which is 1.5 months slower than the previous initial plan.

Keywords — *Scope Baseline, Schedule Baseline, performance measurement, earned value management*