

ABSTRACT

PT. XYZ, a telecommunications company in Indonesia, is currently working on an internet network installation project for corporate needs at Telkom University. The project experienced delays in the fifth week, with actual progress only reaching 38.61% out of the 60.88% target. To address this issue, a maturity level assessment of the project's risk management was conducted using the Project Management Maturity Model (PMMM) to evaluate and improve the current risk management maturity. The risk management maturity level was measured through a self-assessment distributed to respondents. The results showed that all processes in the project's risk management at PT. XYZ were at Level 1, the "Initial Process" level. This indicates that the company needs to make significant improvements in its risk management practices to enhance its maturity. Furthermore, an information system for risk management maturity measurement was designed using the waterfall method to simplify the evaluation process. The system design was illustrated using data flow diagrams, use cases, and sequence diagrams before being implemented with programming languages. The system was designed to display maturity level results immediately after respondents complete the self-assessment and to provide improvement recommendations for each process. With this measurement system, PT. XYZ can effectively assess and enhance the maturity level of its project risk management. The improvement recommendations generated by the system help the company create improvement plans for ongoing projects as well as future projects.

Key Word – Maturity, Project Risk Management, Project Management Maturity Model, Information System