

ABSTRACT

PT ABC is a company engaged in the health sector that wants to build a central health laboratory that can be integrated with simple laboratories in the DKI Jakarta area. The construction of this central laboratory is expected to help improve the quality of health in Indonesia, especially DKI Jakarta. PT ABC collaborates with PT XYZ in conducting market research for health services, surveys for service data needs, and characteristics of health services in hospitals and clinics. The project is targeted to start on June 2022, but will only start on September 2022 because the project schedule planning has not been carried out.

In this final project, the scope baseline design is carried out using the decomposition method which divides the scope and deliverables into the smallest parts (work packages) in order to assist the project team in carrying out work in a structured manner. The basic outline of the design schedule uses the Critical Path Method (CPM) to find out the activities that are included in the critical path and the total duration of project work to completion in order to prevent delays in the project, and help the project team to unify project performance.

Scope Baseline design produces three outputs, namely Project Scope Management, Work Breakdown Structure (WBS), and WBS Dictionary. The results of the project scope management design contain information regarding the project name, project scope description, deliverables, acceptance criteria, risks, project exceptions, and assumptions and constraints. The results of the WBS design consist of level 0 (project), level 1 (major deliverable), level 2 (work package), and level 3 (activity). All components of the WBS will be explained in detail in the WBS Dictionary which has information on WBS Level, WBS Code, WBS Name, and WBS Description. The schedule baseline design produces two outputs, namely the project schedule network diagram and the gantt chart. The results of the project schedule network diagram design are in the form of visualizing the sequence of project work, then calculations are carried out using CPM. Based on calculations using the CPM method, the critical path with the longest duration is 40 working days, the Gantt chart is visualized with a schedule for each project activity and several activities are carried out simultaneously.

Keywords— Project, Scope, Schedule, Baseline, Critical Path Method