

ABSTRACT

Operation Supervisory Monitoring (OSM) is a website that monitors work on network development at PT. Telkom Access (PTTA) West Java Region. This website makes it easy for workers in the construction division to monitor their work. However, on this website there is still work that has not been monitored, namely Link Budget Automation and Existing Fiber Optic (FO) Inventory. The existing FO inventory system still uses Google Spreadsheets and the monitoring system is less effective because the West Java Regional PTTA construction division already has an OSM website. The existing system of calculating link budget is still done manually using excel, so it takes a long time to calculate the link budget. Therefore, it is necessary to develop a website to add Link Budget Automation and Existing FO inventory on the OSM website.

In this Final Project, OSM website development will be carried out by adding Link Budget Automation and Inventory FO Existing modules. One of the methods used in website development is the Software Development Life Cycle (SDLC). The type of SDLC method used for website development is the waterfall method which uses a systematic and sequential approach.

The results of the development of the OSM website link budget automation module are expected to calculate and display the volume and total attenuation (link budget) based on the Bill Of Quantity (BoQ) file and can compare the value of the link budget plan and real. Then the results of the development of the OSM website for the Existing FO Inventory module are expected to create a monitoring system that can add, edit and view details of the Existing FO. The functional test results of the Link budget Automation module and the Existing FO Inventory have a 100% success rate, all features can run according to the expected results and the beta test results using the Likert scale obtained an average result of 85.3% OSM website development is feasible to use.

Keywords: *Waterfall, CodeIgniter, website, development*