ABSTRACT

This final project report discusses designing a monitoring website for building FTTH (Fiber to the Home) networks using the Laravel framework. FTTH is a technology that is important in providing high-speed internet access via optical fiber directly to the user's home. Monitoring the construction of the FTTH network is very important to ensure that the project runs according to the set schedule and specifications. Before the monitoring website for the construction of this new network was made, OPTIMA had difficulties because it had to ask partners for evidence of construction by asking for it individually and that was an ineffective way, with this monitoring website OPTIMA and partners also easily worked together.

The solution for this website is designed so that the FTTH network development team can better monitor each construction or network construction carried out by partners. From this website the OPTIMA team can better manage all request lists and projects because each request list can be downloaded so that it can be viewed in detail. On this website partners can report any evidence to the OPTIMA team so that there are no mistakes in building the new network. SDI's assignments on this website can also be carried out properly because the survey that was carried out and the RAB that was inputted can be seen directly by the OPTIMA team.

The result of designing a monitoring website for the construction of this new network is a Real-Time construction progress monitoring website by the OPTIMA team, the OPTIMA team can also fully control this website because OPTIMA is the super user on this monitoring website. And also financial transparency, etc. in the management of FTTH network development..

Keywords: *FTTH, Laravel, Website Monitoring, Web Development, Fiber Optic Networks.*