

ABSTRACT

In the development of technology at this time which is so rapid, of course also occurs in the telecommunications process which is a technique of sending and delivering information remotely from one place to another.

In this final project, designing a telegram bot system to control and view the progress of ODP disturbance reports, as for the features of the process, namely reporting ODP disturbances, updating ODP disturbance reports, checking ODP report updates, and information on ODP disturbances collection. This telegram bot is connected to the server using the webhook method, using google spreadsheet as a database, using google my maps as a collection of ODP interference info and connected to a dashboard designed using google data studio. Telegram bot is a bot or robot that is programmed with various commands to carry out a series of instructions given by the user. ODP itself has the function of protecting and dividing fiber optic cables to several customers. The main function of ODP is to divide one optical core from the provider's main line to several customers.

With this telegram bot, it is hoped that it can be applied to control ODP from technicians as execution, admin as monitoring. The results of functional testing of the telegram bot have a 100% success rate, all features can run according to the expected results. The results of performance testing by measuring the response time of the bot get the average overall response time of 1.93 seconds. The results of non-functional testing of telegram bots are compatible to be accessed on various operating systems, and the results of subjectivity testing are 86%-83%-88% of respondents rated this application very good.

Keywords: *Technology, Optical Distribution Point, Telegram Bot*