

ABSTRACT

Syna Teknika is a company engaged in the production of technology, technical consultants, and services that are currently working with one of the state company agency named PT PLN Persero. Given Syna Teknika in cooperation with PT PLN Persero to create a tool called GFD (Ground Fault Detector) installed on the substation PLN. In recording the results of examination GFD arises some problems that the recording is done more than once because the officer recorded the results of checks manually and not yet integrated with the database. Then built an application that has a feature to record the test results tool, the results of checking GFD, pointer with the coordinates, and printing. This systems is built using waterfall method with Java programming language, HTML and using MySQL database. All the functionality contained on the system will be tested, ranging from master data management, check logging, use of Google Maps API, to printing checking reports. The results of this application is be used as a solution to the problems faced by the employees of the company itself so that in the company's operational activities to be smooth.

Keywords: Syna Teknika, Ground Fault Detector, Application, Waterfall Model