ABSTRACT

INFORMATION SYSTEM OF PREDICTION AND PC MAINTENANCE IN PT PLN (Persero) DISTRIBUSI JAWA BARAT DAN BANTEN APJ CIMAHI

By

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PT. PLN (Persero) Distribusi Jawa Barat Dan Banten APJ Cimahi is a company which is engaged in electric power provider. The problem faced was not there to document the information systems reporting damage or pc repair and monitoring of the application, reporting damage, improved reporting and change requests. Based on the description, then the solution to the problems mentioned is the construction of an information system maintenance and forecasting pc that can assist in documenting, monitoring and forecasting value calculation using exponential smoothing method that is expected to predict a lot of damage.

The research method used is descriptive method and for the development of software using the waterfall model. The depiction of the system using data flow diagrams and database design using entinitas relationship diagram. The information system has been built to be tested using the blackbox which consists of alpha testing is to test the functional view of the system and beta testing to see the terms of use of the system.

Maintenance of information systems and forecasting PC will work if all fields are filled, if any field is not filled in the information system maintenance and PC forecasting error. The results of the beta test for the maintenance of information systems and forecasting pc is, that the system information is very helpful in documenting, reporting damage, to request changes, but it is also very helpful in monitoring applications, reporting damage, to request changes. Maintenance of information systems and forecasting pc can calculate the value of the damage forecasting using exponential smoothing methods.

***Keywords**: documentation, monitoring, forecasting, methods of exponential smoothing*