ABSTRACT - THORIQULHAQ

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ABSTRACT

Electricity has a big role in human life, this can be seen from the developments experienced by humans before and after the use of electrical energy. In fact, we can see that electricity cannot be separated from industrial activities, commercial activities and in everyday household life. Therefore, a facility that can convert mechanical energy into electrical energy such as a power plant is very important as an effort to provide electrical resources. PT PLN (Persero) plays an important role in the distribution of electricity throughout Indonesia. Therefore, PT PLN (Persero) needs to provide good services in the distribution and management of electricity resources. One of the efforts is by conducting periodic monitoring and maintenance of the power plant so that the performance of the power plants can be optimal and maintained in generating electricity. But over time, the number of power plants continues to grow especially in the area of Madura Island and its surroundings which is under the control of PT PLN (Persero) UP3 Pamekasan . So that creates a new problem with the power plants performance monitoring system which causes maintenance not to be optimal. On the other hand, the efficiency of the system is also reduced because it still uses manual methods and data management that is not centralized. To overcome these problems, one of the objectives of this system development project is to design and develop a proposed web-based application named Power Plants Performance Monitoring System In PT PLN (Persero) UP3 Pamekasan to replace the current existing system which is still using manual methods. The project only focuses on power plants in PT PLN (Persero) UP3 Pamekasan, which are located in Pamekasan Regency, East Java, Indonesia. In this project, the system development methodology used is Agile with six sequential phases. Besides, this proposed system will be developed with Laravel as the framework. Meanwhile, MySQL will be used for the database management system, and some network security technology such as authentication will be applied to enhance and secure the proposed system. At the end of this project, the proposed system is able to replace the manual operation of existing systems and thus provide an optimal, efficient and systematic way to monitor the performance of power plants in Madura Island and its surroundings.

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