

ABSTRACT

Electrical energy is one of the primary needs in modern times like today, almost every device used for daily life uses electric energy. But currently the use of electrical energy in daily life is still not efficient due to the lack of awareness of users in using electrical energy, especially in office areas, this causes a lot of electrical energy that could have been used for other needs to be wasted. Therefore, to increase the efficiency of daily use of electrical energy in offices, a web-based management and control system can be made to control the use of electric energy that can determine the monthly electricity bill target cost, by reviewing the priorities of existing electronic devices using a priority algorithm and keep the data in the database. From the results of the execution time test, which shows the number under one second, and the test rules, which have an accuracy rate of 100%, this shows that the system is running in accordance with the designed rules.

Keywords: *Web, Database, Priority Queue Algorithm*