COMPARISON OF THE SIMPLE ADDITIVE WEIGHT METHOD AND THE PRODUCT WEIGHT METHOD IN EMPLOYEE SELECTION SYSTEMS
(Case Study of the Boyolali "Tegar Mandiri" Steam Iron)

ADIE GUNAWAN ALWANI

Informatics Study Program, Faculty of Science & Technology
University of Technology Yogyakarta
Jl. Ringroad Utara Jombor Sleman Yogyakarta
E-mail : nouvalalwani@gmail.com

ABSTRACT

Steam Iron "Tegar Mandiri" is a business operating in the steam iron service industry. Tegar Mandiri Steam Iron is located in the Boyolali area, precisely in Dlingo Village, District. Mojosongo, Boyolali Regency, Central Java. The "Tegar Mandiri" Steam Iron has not utilized technological advances for the employee selection and recruitment process. The implementation of employee recruitment in this business is still carried out conventionally. Even though the implementation of conventional employee recruitment is fairly smooth, there are several problems, including that prospective applicants have to come in person to find the required vacancy information. Then the process of registering prospective employees is still carried out manually, namely by coming directly to the location and then the admin has to register the prospective applicants one by one, this results in the data collection process being less effective and the data written in the book is susceptible to damage or corruption. The analysis in this research was carried out by describing the functional requirements and non-functional requirements of the system. The implementation stage is carried out by writing program code using the PHP programming language and adopting the Weight Product (WP) method and also the Simple Additive Weight (SAW) method. This method is used to calculate test assessments which include tests for packing clothes, attaching buttons, folding clothes, removing threads, and also steam ironing. Both methods are used and the average is calculated to determine employee recruitment priorities. The test results show that the level of accuracy of the two methods is different, with a SAW accuracy level of 90% and WP of 80%. So the method that is suitable for the case of Mandiri Rigid Steam Iron employee selection is the SAW method with an accuracy of 90%.