The Development of a Web-Based Material Ordering System at the Culinary Laboratory

by Wika Rinawati1), Endang Mulyatiningsih2), Prihastuti Ekawatiningsih3), Sugiyono4), Afina Nurul Mizani5)

ABSTRACT

This study aims to 1) develop a material order system application for culinary students; 2) know the feasibility of the application of the material order system for culinary students based on expert judgment.

This research employed research and development (R&D) with the waterfall model, namely 1) communication to gather information; 2) planning which is the fabrication to be used to build the system; 3) modeling for software development; 4) construction, combining code disclosure and testing; and 5) development of application trials to users. The location of the research was the FT UNY Culinary Laboratory. The data analysis techniques used descriptive statistical analysis. The first research result gains the stages in the development of a web-based material in-out system: 1) communication in the form of FGD, observation, interviews, and questionnaires; 2) planning includes analyze resources, the existence of risks, the preparation of work schedules; 3) modeling of data design making, application interface design and data based design; 4) construction in creating the applications using Android Studio and Java programming language; and 5) development including testing the application to users. data collection methods by observation, questionnaires, FGD, interviews. The second result is the appropriateness of the application of the material order system, namely from the Functional Suitability aspect which gets a value of 100% and each sub-characteristic gets a value of $X = 1$, performance efficiency gets an average value of page loading time of 2.6 seconds, security gets a security level of level 2 or medium, reliability gets a value of 1 or 100%, maintainability gets a value of 67.3% with a sufficient category.

Kata Kunci: *Material ordering system, web-based*