ABSTRACT

Subjective differences in design style are one of the obstacles experienced by UI Designers at PuTI in developing the SIRAMA application, making the user interface development process tend to be inconsistent which will affect the user experience. This is the background of the author to design a Design System using the Atomic Design approach. This study aims to determine whether the Design System can support the consistency of the development of the interface (User Interface). Testing was carried out twice, namely Pre-Research and Post-Research. Pre-test testing was carried out on end users to find out user opinions on the current SIRAMA application using the SUS evaluation to get a score of 60 in the "OK" category. Post Research Testing is carried out for PuTI professionals and end users. For PuTI professionals in the form of Design System testing that has been built using Heuristic evaluation with a value of 0.14 which is in the no problem category and the product is ready for use. In addition, for end users, post-research testing was carried out with SUS usability in the form of testing a new prototype with a score of 82 in the "GOOD" category. Based on research the SIRAMA Design System Development with an Atomic Design Approach can add consistency to the development of the user interface because it utilizes components from the standardization that has been made and also adds harmony, uniformity and design consistency.

Keywords: Design System, Atomic Design, Heuristic Evaluation, Usability Metrics