ABSTRACT

The Sidang Online Fakultas Rekayasa Industri Application (SOFI) is a web-based solution implemented by academic members of the Faculty of Industrial Engineering, Telkom University, to facilitate the process of students' Final Project (TA) defense. Evaluative analysis indicates that the usability results of the SOFI application, measured using the System Usability Scale (SUS), fall below the average standard with a score of 65.4 points. This reflects a mismatch between the application's usage and user needs. To address this situation, the approach taken involves redesigning the application's user interface while considering user expectations and needs. In tackling this issue, this research employs the design thinking method combined with the incremental model approach, resulting in an innovative interface design and implementing it through source code. The final outcomes of this research encompass a prototype design that yields a SUS score of 75.5 points, along with the implementation of the prototype in source code form with the evaluation results of the implementation.

Keywords : ***User Interface, Usability, Design Thinking, System Usability Scale, Incremental Model***