ABSTRACT

Sidang Online Fakultas Rekayasa Industri (SOFI) is a web-based application used by the academic entity of the Fakultas Rekayasa Industri, Telkom University, to assist in the conduct of student's Final Project (TA) defense sessions. Currently, based on the evaluation conducted, it was found that the usability score measured using the System Usability Scale (SUS) for the SOFI application is below average, specifically at 65.4 points. This indicates the existence of issues in meeting the needs of its users. To address this, improvements and a redesign of the application's user interface is necessary to align with user expectations. To approach this issue, this research utilizes the design thinking method combined with incremental model approach to generate an innovative interface design and implement it in the form of programming source code. The final outcome of this research is a prototype design with an SUS evaluation score of 77.7 points and its implementation in the form of source code, along with the evaluation results of the implementation.

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