

Perancangan dan Evaluasi Desain Sistem Informasi Pengelolaan Riset dengan Pendekatan User-Centered Design = Design and Evaluation of Research Management Information System Design Using User-Centered Design Approach

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Abstrak

Workflow dalam penelitian merupakan serangkaian langkah yang terstruktur untuk memandu peneliti melalui proses penelitian dari awal hingga akhir. Workflow membantu mengelola eksperimen pemecahan masalah yang kompleks dan dapat digunakan untuk memproses data berulang kali. Akan tetapi, peneliti sering kali tidak memanfaatkan data yang tersedia karena ketidakmatangan infrastruktur untuk pertukaran data serta minimnya jumlah layanan repositori data. Penelitian ini bertujuan untuk mengembangkan desain antarmuka sistem informasi pengolahan riset berbasis workflow, Easy Research, dengan pendekatan user-centered design. Dalam merancang solusi desain antarmuka, tim penulis mengacu pada prinsip Shneiderman's Eight Golden Rules of Interface Design. Berdasarkan hasil survei, terdapat sebanyak 15 fitur yang berhasil diimplementasikan. Tahapan setelah merancang desain berupa high-fidelity design dan prototype adalah evaluasi desain dilaksanakan dengan menggunakan empat instrumen, yaitu Usability Testing (UT), Single Ease Question (SEQ), wawancara kontekstual, dan System Usability Scale (SUS). Hasil usability testing memberikan hasil di atas rata-rata, yaitu sebesar 90%. Selanjutnya, nilai SEQ yang diperoleh adalah 6,66 dari 7. Desain sistem Easy Research mendapatkan skor rata-rata SUS sebesar 81,1 dan mendapatkan grade A. Maka dari itu, dapat disimpulkan bahwa aspek usability dan visibilitas desain dari sistem Easy Research tergolong baik.

.....Workflow in research is a series of structured steps to guide researchers through the research process from start to finish. Workflow helps manage complex problem-solving experiments and can be used to process data repeatedly. However, researchers often do not utilize the available data due to immature infrastructure for data exchange and the limited number of data repository services. This study aims to develop the interface design of a workflow-based research processing information system, Easy Research, using a user-centered design approach. In designing the interface solution, the team refers to Shneiderman's Eight Golden Rules of Interface Design. Based on survey results, 15 features were successfully implemented. The stages following the design, including highfidelity design and prototype, involve design evaluation using four instruments: Usability Testing (UT), Single Ease Question (SEQ), contextual interviews, and the System Usability Scale (SUS). The usability testing results yielded above-average results, at 90%. Furthermore, the SEQ score obtained was 6,66 out of 7. The Easy Research system design received an average SUS score of 81,1 and a grade of A. Therefore, it can be concluded that the usability and visibility aspects of the Easy Research system design are considered good.