DESIGN AND IMPLEMENTATION ISO/IEC 9126 QUALITY MODEL USABILITY CHARACTERISTIC EVALUATION CASE TOOL

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Abstract

Software quality assurance is important to keep software quality. Usability characteristic is one aspect of quality assurance in a software. Usability characteristic guarantee a level of understandability, operability, learnability, attractiveness, and regulation. One of standard quality model for software is ISO/IEC 9126. The objective of ISO/IEC 9126 is improve the software quality and produce the quality assessment for the software. Usability characteristic is also contained in the ISO/IEC 9126.

Evaluation tool that developed in this Bachelor thesis is used to facilitate quality assurance and give the quality assessment in maintenance. Evaluation tool is used based on ISO/IEC 9126 usability characteristic. Evaluation is applied on Sistem Informasi Akademik (SIAKAD) ITS student academic module.

The result indicate that evaluation tool give the good value for evaluation. User can choose important metric for evaluation. The result of SIAKAD ITS shows that four from five sub characteristics yield values with one zero value. While one sub characteristic does not give value because SIAKAD does not have attribute that needed for evaluation.

Keywords: evaluation tool, quality model, usability characteristic
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