Development of Application Measurement of Software Quality Requirements based on Structural Model Metrics, Case Study : School Social Network Application (SSN)

Name : Nabil
NRP : 5208 100 074
Department : Sistem Informasi FTIF-ITS

ABSTRACTION

Software requirements is one of the critical success factors in building a software. Based on some existing research, good or bad a software relies heavily on the quality of its software needs.

On an IT project as School Social Network (SSN), some of the problems on software quality needs may occur at any-time. Such as the changing needs of the software, or the loss of one of the possible needs of the software, or even software that is difficult to understand.

Problems often occur in the software requirements, can create output that resulted from the different development processes of defining the functional requirements early in the project. This is because the software produced in the early process of development had poorer quality.

To determine the extent to which the quality of software requirements, one way to do is to take measurements. This measurement is based on a matrix of Structural Requirements
Model which contains 6 characteristics that are used as a benchmark measurement.

The final result of this thesis is a quality measurement application needs CodeIgniter PHP based software is also designed to enable measurements based on the characteristics of software quality pernagkat needs. In addition, a measurement of the quality of software use a matrix kebuuhan Requirements on Structural Model School application case studies Social Network (SSN) was also performed. Measurements were measured using a benchmark of quality characteristics so that the output of this matrix can be used as a comparison with the results of measurements using the application.

**Keywords:** Kualitas kebutuhan perangkat lunak, Kebutuhan perangkat lunak, School Social Network, SSN, Matriks kualitas kebutuhan perangkat lunak, Quality Characteristic, Requirements Structural Model, Aplikasi pengukuran kualitas kebutuhan perangkat lunak