MEASUREMENT AND IMPROVEMENT THE SOFTWARE REQUIREMENT QUALITY OF SSN USING REFACTORIZATION AND SQUARE METRICS

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ABSTRACT

Software requirements is one factor determining the success of a software where software quality is strongly influenced by the quality of software requirements. Researchers have done some research related to the needs of the software and assume that the quality of a software is highly dependent on the quality of the information needs of the software.

On an IT project changes and problems in the software needs can occur anytime. For example, the needs for software that is incompatible with the expectations of the user, the changes that occur in software requirements, mismatch between the needs of the design, which causes misunderstanding in interpreting the needs of software. Problems in software requirements will produce low quality software. This is due to the information needs of software that has poor quality.

To minimize this, it is necessary to improve the quality of software needs one using refactoring. Refactoring is helpful in improving the understanding of the needs of the software without changing the business processes of the software. After the refactoring process is done, the next necessary to measure the quality of the software needs to know the extent to which the quality of the software that created the need. Quality measurements carried out using a square metrics is done by determining the characteristics of a quality that will be measured and calculated quality.
The end result of this final project is a requirement that has been in software refactoring as well as a measurement of the quality of the software requirements following case study in refactoring the SSN application. The resulting output from the final project in the form of a percentage of the software quality requirements which will be compared with the previous software quality requirements and is expected to be used as a further improvement SSN application development.

Keyword: requirement quality, software requirement, School Social Network, SSN, Metics, Quality Characteristic, Requirements Structural Model, Refactoring