Measuring and Analyzing the Effectiveness of Software Engineering Techniques Employed in a Subsystem with the Help of Software Metrics

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ABSTRACT

The project is entitled as 'Measuring and analyzing the effectiveness of software engineering techniques employed in a subsystem with the help of software metrics'. The main intended objective of the project is to create a tool to help the programmer to measure and analysis the subsystem. Currently, there are a few software available in the market. The author feels that they are too complex to use. The development of the project is for the user to use the software metrics easily to measure the quality. The tool will be developed.

In this project, the author will explain how the system could be developed based on the studies and his own ideas. This whole process follows the system development life cycle. It starts from the studies about the software quality, software measurement, software metrics, efficiency of algorithms and programming techniques. Based on the understanding of the literature reviews, the fact – finding was conducted to gather the requirements of the system. Next, the system is designed based on the requirements. From the design, algorithms was created and used in the implementation. After completing the system, the system has been measured by using certain types of software metrics. At last, the system testing was conducted to avoid the bugs.