

Software Quality Promotion and Improvement through Usage of a PSP Oriented Information System

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Abstract : This research aims to investigate the usage of a personal software process oriented information system in order to facilitate the promotion of software quality and its improvement in organizations. In this light, at the term of a literature review on software quality and related concepts, the personal software process is discussed, more particularly in terms of software quality. Semi-structured interviews will be conducted with a team of software engineers on the first hand to establish a baseline on their understanding of what quality entails for them. The PSP methodology will then be presented to the engineers in its most basic aspects. The research will then proceed to practical case study where a PSP oriented information system is submitted to engineers for usage throughout their development process. Reports from the PSP information system as well as feedback from the engineers will be used in conjunction with the theoretical foundation to establish a PSP inspired framework for software quality promotion and improvement.

Keywords : information communication technology, personal software process, software quality, process quality, software engineering

Conference Title : ICEIT 2014 : International Conference on Education and Information Technology

Conference Location : Cape Town, South Africa

Conference Dates : November 06-07, 2014