

Quality Models: Role and Value in Software Engineering

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Abstract

Software quality is the totality of features and characteristics of a product or a service that bears on its ability to satisfy the given needs. Poor quality of the software product in sensitive systems may lead to loss of human life, permanent injury, mission failure, or financial loss. So the quality of the project should be maintained at appropriate level. To maintain the quality, there are different quality models. "A high quality product is one which has associated with it a number of quality factors. These could be described in the requirements specification; they could be cultured, in that they are normally associated with the artifact through familiarity of use and through the shared experience of users. In this paper, we will discuss all the quality models: McCall's quality model, Boehm's quality model, Dromey's quality model, and FURPS quality model and focus on a comparison between these models, and find the key differences between them.

Keyword : Quality Model, Software Quality, Implementing, Quality factors, Software Engineering