Maintenance Testing of a Software Product

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Abstract
Maintainability, along with conformity, reliability and security, is the characteristic of quality that measures effortlessness and promptness to maintain a system or a software product. Maintainability testing is part of non-functional testing in a software product life cycle. Software maintenance testing is triggered by modifications of components or systems already used in production and it is split in four categories: corrective maintenance, perfective maintenance, adaptive maintenance, preventive maintenance. The main reasons of performing maintenance tests are: modification, migration and retirement. An analytical overview of this testing technique and methods are presented. In addition, the last chapter is dedicated to a comparative analysis of tools that can be use for manual, semi-automated, or automated maintenance testing.

Keywords: Maintainability, Maintenance, Software, Maintenance testing, Software life cycle, Testing tools

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