SOFTWARE PRODUCT REALIZATION QUALITY FRAMEWORK

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A thesis is partial fulfillment of requirements for degree of MS (Software Engineering)

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ABSTRACT:

Thesis aims to propose a new framework SPRQF **(Software Product Realization Quality Framework)** that is providing proper guidance towards implementation details, what to do? When to do? And at what step what type of documents should be prepared to develop matured software under the scope of the implementation for clause 7 of ISO 9001:2000. Although the European standard ISO 9001:2000 is applicable for each organization for achieving Quality Management System but SPRQF (Software Product Realization Quality Framework) is reserved specifically for software organizations. Guidance is being provided about documents needed to prepare during the implementation of each step to produce matured software and how the documents should be structured will also be described. SPRQF is designed because of people don't understand well enough that what clause 7 speaks about? It is really tough to go through the documentation requirements without consultation. So eliminating a huge cost of consultancy a framework is proposed i.e. Software Product Realization Quality Framework. The concept of SPRQF is taken from a clause of ISO 9001:2000. Clause 7 consists of documentation requirements for product realization. SPRQF (Software Product Realization Quality Framework) is designed for specifically software organizations for increasing the understandability and reducing the complexity of clause 7 documentation requirements that directly affects cost, time and resources. The proposed framework is covering identification of mandatory processes with their practices and checklists having new, easy and well understandable structure for them as structure of templates and items of checklists were also not in easy format in previous work done till today.

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