AN EFFECTIVE FRAMEWORK FOR TOTAL QUALITY MANAGEMENT IN INFORMATION SYSTEMS BUILDING.

Piet Madimetja Timothy Masela

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Declaration

I declare that this research project is my own unaided work. It is being submitted to the Faculty of Commerce at the University of the Witwatersrand, Johannesburg for a Master of Commerce degree specialising in Information Systems. It has not been submitted for any degree or examination at any other university.

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Piet Madimetja Timothy Masela

Signed this____day of _______________1998 in Johannesburg.
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Abstract

Business processes in all sectors of the business community require information to achieve the missions of their organisations. The quality of the information is directly related to the quality of the application system which process or produce such information.

During application systems development, the project manager should consciously gather the application owner’s quality requirements, and ensure that those requirements are built into the application which is delivered at the conclusion of the development project.

The specified quality requirements should be measurable to ensure that their presence can be verified in the end product. This report uses quality attributes obtained from the International Standard (ISO) 9126 Software Evaluation Framework, to specify these requirements and to verify their achievement.

This research found that there is a consensus among application system owners and project managers on the importance of quality attributes as an evaluation tool of the quality of an application system. In the quest for quality, the starting point should be gathering of quality requirements and their correct interpretation.