REQUIREMENTS MANAGEMENT TOOL

FOR SMALL-TO-MEDIUM SCALE

SOFTWARE PROJECTS
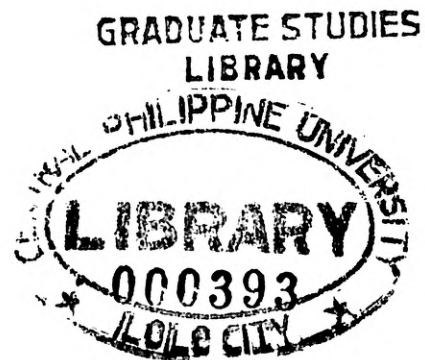
A Research Report

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By

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ABSTRACT

Software requirements consist of product and behavioral properties of the software system. It is an essential factor in building the right software product for clients and customers. Communication is very important during the development to ensure that the needs and expectations of the client for a software product are satisfied. In order to ensure that requirements are agreed by both developer and client, project deliverables are produced during this phase for approval.

The Requirements Management Tool (RMT) was developed to manage the production of various requirements artifacts like Statement of User Requirements (SUR), Software Requirements Specifications (SRS), and Acceptance Criteria for sign-off. Most of the problems in software development were to keep track of user requirements and through this software, it can create a checklist where the system analyst can determine the status of user requirements. The RMT software utilizes the IEEE Software Engineering standards for documenting software requirements as to formalize requirements artifacts. Being one of the CASE tools for software development, it can significantly increase the consistency of requirements documentation and tracking of software projects. The development of RMT follows the object-oriented analysis and design methodology where individual components are derived from the requirements and use cases.