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# SRS Document Proposal Analysis on the Design of Management Information Systems According to IEEE STD 830-1998

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**Abstract**

A software development process generally consists of several stages ranging from analysis to implementation, which will result in need (requirement) of software. Results of analysis for different applications in a similar problem domain will usually produce similar definition needs. In the field of software engineering, especially in object-oriented software development, requirements for different problem domain have been developed. This research is to obtain a similarity (commonality) of the software requirements specifications, here in after in short-SRS. Management Information System (MIS) has been chosen due to several years has developed into concepts that are essential both in the scope of major agencies as well as small and medium scale. SRS is the identification of commonality for the MIS application which is focused on the function of customer service standards, particularly for the Management Information System. From this research it also can be concluded that the SRS commonality can be generated by capturing best practices from existing business processes.

*Keywords*: Software Requirements Specification (SRS) commonality; Management Information System (MIS); the Users Requirements.

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## 1. Introduction

The Software Requirements Specifications Document (SRS's Document) is a written statement of something that can be done and that cannot be done by software. The document is only acting as a foundation or basis for an agreement between the parties-party software developers with software users. The Management Information Systems (MIS) is a complete management of these processes provides information for managers to support operations and decision making within an organization. Practice and research of information systems has been developed under a combination of scientific and economic reasoning that forms the foundation of modern community of western countries (Avgerou, 2000), whereas in developing countries is usually still a problem especially in the application of information technology uniformly (Avgerou, 2000). Unlike other types of systems, information systems should consistently closely related to the database, handle incoming data and conduct transactions, and provides an interface with external users (Nixon, 2000). Terms of SIM in this case related to functional requirements (FRs) and nonfunctional requirements (NFRs). Establish a basis for agreement between customers and product developers SIM about what can and cannot be done by the product. Complete description of the functions to be performed by the MIS in the SRS document will help potential users to determine whether the product license that will be designed will have to meet their needs or how the SIM to be modified to suit their needs (Avgerou, 2000). Preparation of SRS document forcing the various concerned groups within the organization to consider all the stringent requirements before the design process begins and then reducing the redesign, recoding, and re-test. That requires the use of inspection or review throughout the cycle (life cycle) MIS is an important factor in improving the overall quality of the resulting MIS (Anderson et al., 1998)

Preparation of SRS document before the design of MIS has several advantages, among others:
- Requirements in SRS documents can reveal omissions, misunderstandings, and inconsistencies early in MIS development cycle.
- Provide a basis for estimating costs and schedules and can be used to obtain the approval of bids or price estimates.
- Provide a basis for validation and verification.
- As part of the development contract MIS, SRS provides a basic document compliance with requirements that can be measured.

Several recent investigations revealed that some major problems today, especially in developing MIS is not technical but managerial. to avoid excess costs and delays that often affected many MIS projects, the improvement of MIS project should be managed the same with the increasing importance of technology in software development [5]. Rigorous specification early in the MIS development process can greatly reduce the cost of later development and maintenance, as well as provide an explicit means to manage risk and identify and meet safety requirements [6]. In this paper, first, presents some basic concepts in identifying software requirements, in this case its application in the design of MIS. Second, present a research proposal in the field about the importance of SRS document before starting the design process of MIS based on IEEE Std 830-1998.

## 2. Literature Review

### 2.1 Identify the basic concepts of software requirements

Identify some of the requirements is a step from the initial understanding of the scope of the context analysis of software functions obtained from potential users or that is based on system requirements.

(a) The software requires the input to understand the requirements.