

**Requirements Model for Universiti Utara Malaysia Library Data
Warehouse**

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Requirements Model for Universiti Utara Malaysia Library Data

Warehouse

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BY:

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ABSTRACT

Requirements play a very important role in system development project. It is because requirement forms the backbone of any successful project and provide the measure of success or failure of a certain project. Misinterpretation of the requirements would increase cost and hinder the system development to meet user's expectation. Therefore, it is necessary to present the requirement in an understandable and meaningful way. This is achieved through requirement model. The model gives a complete view of certain system and represents idea without having to develop an actual system. This research aimed to create a requirement model for Universiti Utara Malaysia Library Data Warehouse. Snowflake model is used to model the requirement. A set of requirement list is produced in this research. Various reports were produced and validated by the users. Several recommendations for future research were discussed.

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CHAPTER ONE

INTRODUCTION

1.1 Introduction

Requirements are a careful assessment of a system to be fulfilled (Gam & Salinesi, 2006).

An efficient approach to manage requirements changes is, therefore, necessary for successful system development in practice (Kobayashi & Maekawa, 2001). It must say what system features will serve and satisfy this context. And it must say how the system is to be constructed.

Kobayashi & Maekawa (2001) also add most system requirements analysis methods try to capture system requirements in only 2W (Who, What) features, but it must be quite complex to do, because most stakeholders rarely show concrete and correct system requirements. Most requirements shown by stakeholders are often ambiguous, confused and inaccurate, and therefore it is needed to analyze them in multilateral viewpoint to consisted of 4W matters of requirements, i.e., “where is the requirement generated?”, “who generates it?”, “why is it generated?”, and “what is system requirements?”.

In developing software for safety-critical systems, it is essential to hold both requirements analysis and safety analysis. In requirements analysis, the behavioral and functional requirements of the system's software components are defined, documented, and reviewed. In addition, the requirements analyst is responsible for identifying and documenting the system safety requirements that relate to the system's software. Safety analysis techniques are used to decide whether or not the safety requirements are fulfilled (Joanne & John, 1995).

The contents of
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