

**REQUIREMENT MODEL OF SCHOOL MANAGEMENT SYSTEM FOR ADULT
COMMERCIAL SECONDARY SCHOOL IN SOMALIA (ACSSMS)**

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UNIVERSITI UTARA MALAYSIA

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**REQUIREMENT MODEL OF SCHOOL MANAGEMENT SYSTEM FOR ADULT
COMMERCIAL SECONDARY SCHOOL IN SOMALIA (ACSSMS)**

**A project submitted to the Dean of Research (Awang Had Salleh Graduate School) in
partial fulfillment of the requirements for the degree**

Master of Science (Information Technology)

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By

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ABSTRACT

To develop a system, it is necessary for the system's analyst to provide a model. In order to produce this model, the analyst must identify the user's requirement first. Requirement model is one of the techniques used to model out the user's requirement for a specific system before the development of that system. In other words, requirement model gives a view of the user's requirement for a particular system. The purpose of this study is to create a requirement model as a basis to develop school management system for Adult Commercial Secondary School in Somalia. So, during this study, the UML graphical notation was used to model out the requirement model of the proposed school management system, and the requirement model was designed and presented using different UML tools (e.g., use case diagram, use case specifications, activity diagram, sequence diagram, collaboration diagram and class diagram), and supporting textual information. Also, a small prototype was then developed and presented in this study, which covers some of the main functional requirements, so as to assist the school in managing their daily operations effectively and more efficiently. Thus, this study is believed to be a step forward and very crucial guidance for Adult School in Somalia to be able to give this model to system developers to build the proposed school management system.

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LIST OF ABBREVIATIONS

ACSSMS	Adult Commercial Secondary School Management System
SIMS	Student Information Management System
SIS	Student Information System
SMS	Student Management System
ACSS	Adult Commercial Secondary School
SRS	Student Records System
CMS	Campus Management System
ERP	Enterprise Resource Planning
MIS	Management Information System
UML	Unified Modeling Language
ERMS	Electronic Record Management System

CHAPTER ONE: INTRODUCTION

1.0 BACKGROUND OF THE STUDY:

For the last two decades the themes of governance and management have continuously been on the top of education policy agendas in most countries in the world, and a great number of educational problems were attributed to bad management or inappropriate mechanisms of governance (Gábor, 2003; Duhaney, 2005; Jessica et al., 2009). Furthermore, information has become a critical resource to organizations and individuals and should be managed in a suitable way to ensure its cost effective use, and every aspect of management relies on information to succeed. So, to improve the performance of the organization, the management must be economical, efficient and effective (Baskerville, 2002; Johnson & Higgins, 2010).

Moreover, information systems is essential part of modern education, notably because of numerous possibilities and advantages which information technology brought forward like effectiveness and efficiency for education sectors, as well as for better achievement of setup education goals (Michael et al., 2006; Vuksanovic et al., 2007; Kate, 2010). Thus, nowadays the deployment of information systems in organizations has been highly interconnected with each other and the development and the use of an information management system (MIS) leads to better planning, better decision-making and better results (Nambisan, 2003; Arnott & Pervan, 2005).

In addition, managing diversity of tasks and complexity will certainly be one of the most difficult tasks in Schools. The administrative traditions of education, one of the oldest public services, often make the elaboration of adequate new answers particularly difficult (Tabata & Johnsrud,

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