

Universiti Teknologi MARA

**Strategic Insights into Development of
Information System using Zachman
Framework**

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for
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SUPERVISOR'S APPROVAL

STRATEGIC INSIGHTS INTO DEVELOPMENT OF INFORMATION SYSTEM USING ZACHMAN FRAMEWORK

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STUDENT'S DECLARATION

I certify that this report and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.



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ABSTRACT

This paper illustrates the possibility of using Enterprise Architecture as an indicator that provide guidance in development and documenting an Information System. To address the problem regarding development information system, this research examine from course based project of students in Bachelor of Information Technology (Hons.) Information Systems Engineering (ISE) where there is no integrated perspective of their project artifacts especially in the three consecutive core courses that represent (ITS470, ITS570 & ITS670) the development phases of the project. The courses are taken in three consecutives semesters. Because there is no tool to assist the low holistic understanding for the three courses, failures among students for the related courses are high. Hence, the intention in this research is to establish an Enterprise Architecture for an integrated view to understand the holistic artifacts relationship of the Information System developed. The research is divided into three different phases of Knowledge Acquisition, Data Gathering & Analysis and Data Interpretation. Zachman Framework was chosen to relate and map the system development phases and their artifacts. A complete student project is selected and output documents SRS, SDD and STD are the source for analyzing to provide as a case study in this research. The blueprints of selected information system is constructed and implemented using guidelines from Pereira and Sousa (2004).

TABLE OF CONTENT

CONTENTS	PAGE
SUPERVISOR’S APPROVAL	ii
STUDENT’S DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENT	vi
LIST OF FIGURES	x
LIST OF TABLES	xii
LIST OF ABBREVIATIONS	xiii
CHAPTER ONE: INTRODUCTION	1
1.1 Background of Study	1
1.2 Problem Statement	5
1.3 Research Aim	6
1.4 Research Objectives	6
1.5 Research Limitations	6
1.6 Research Significance	7
1.7 Research Scope	8
1.8 Research Outline of the Thesis	8
1.9 Summary	9
CHAPTER TWO: LITERATURE REVIEW	10
2.1 Concept of Architecture	10
2.2 Enterprise Architecture (EA)	12
2.2.1 Benefits of Business Insights in Enterprise Architecture (EA)	15
2.3 Enterprise Architecture Layers	17
2.4 Enterprise Architecture Frameworks	18
2.4.1 The Open Group Architectural Framework	19
2.4.2 Department of Defense Architecture Framework	22
2.4.3 Model Driven Architecture	23
A. Unified Modeling Language	24
2.4.4 Zachman Framework	25
A. Zachman Framework Structure	26