MULTIMEDIA HARDWARE INFORMATION SYSTEM

SAFWATI BTE SEMAAIL @ ISMAIL

BACHELOR OF SCIENCE (HONS.) IN INFORMATION TECHNOLOGY

FACULTY OF INFORMATION TECHNOLOGY AND QUANTITATIVE SCIENCES
MARA INSTITUTE OF TECHNOLOGY
SHAH ALAM
SELANGOR DARUL EHSAN

MAY 1999

ACKNOWLEDGEMENT

First and foremost, my special thanks and sincere appreciation goes to my Project Supervisor and also as a Project Coordinator, Dr. Mohd Isa bin Samat, for supervising me throughout this proposal. His guidance has contributed to the completion of this proposal. Also for his ideas and advises during the write up.

Lastly, a great appreciation deserved to my family and all my friends especially Mr. Amran bin Bachok @ Md. Yassin, Mr. Illiasaak bin Ahmad and Miss Amelia Alias that have been supporting and encourage me constantly in developing a system.

Shah Alam, May 1999

Safwati bte Semaail @ Ismail

ABSTRACT

The purpose of this project is to make a research on some of multimedia hardware specification and to distinguish whether the hardware is local product or foreign product. The information of multimedia hardware specification is retrieved through Internet, magazine, and newspapers. After all the data have been gathered, it is loaded into Multimedia Hardware Information System. This system will enable the user to retrieve the hardware specification. Based on all the information that has been gathered, it can be used as a source of reference to developed Malaysian own products by using local material such as rubber and Integrated Circuit. This system also has its own limitation. The limitation exist due to the scope of this project where it focused on some of multimedia hardware that are *digital camera, LCD projector, monitor, scanner and speaker.* So, for further improvement, it is recommended that the number of multimedia hardware should be added and provides more detail hardware specifications for each type of hardware. It is also recommended that the scope of this system should be widened where it will cover both multimedia hardware specifications and material information.

TABLE OF CONTENTS

	Page
LETTER OF TRANSMITTAL	i
ACKNOWLEDGEMENT	ii
ABSTRACT	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	vii
CHAPTER 1: PROBLEM DESCRIPTION	**1**
1.1 Background of the problem	1
1.2 Problem description	1
1.3 Problem scope	2
1.4 Problem significance	2
CHAPTER 2: LITERATURE REVIEW	**3**
2.1 National IT Agenda On Infostructure Development.	3
2.2 Definition of pertinent technical terminologies.	4
2.2.1 Multimedia	4
2.2.2 Database	5
2.3 Different methodologies/approaches to solve the same problem.	5
2.3.1Object Oriented Methodology	5
2.4 Brief description of all known similar and relevant on-going projects.	6
2.4.1 Computer Information Centre (Compinfo)	6
2.4.2 CNET (Computer Network)	7
2.4.3 ExactLink	9
CHAPTER 3: PROBLEM DEFINITION	**10**
3.1 Project objectives	10
3.2 Project scope	10
3.3 Project methodology/approach	11
3.4 Software and hardware required	13
3.4.1 Software	13
3.4.2 Hardware (minimal requirement)	13
3.5 Project's benefits	13
CHAPTER 4: SYSTEM DEVELOPMENT	**14**
4.1 Research Phase	14
4.2 System Design Phase: The development of Multimedia Hardware Information System	16
4.2.1 Drawing context diagram	16
4.2.2 Drawing data flow diagram	16

4.2.3 Menu hierarchy 17

CHAPTER 5: DATABASE DESIGN **18**
5.1 Table Descriptions 18
5.2 Table Structures 19
5.2.1 Digital camera 19
5.2.2 LCD Projector 20
5.2.3 Monitor 21
5.2.4 Scanner 21
5.2.5 Speaker 22

CHAPTER 6: SCREEN DESIGN **23**
6.1 Menus 23
6.1.1 Main Menu 23
6.1.2 File Menu 24
6.1.3 Registration Menu 25
6.1.4 List All Menu 26
6.1.5 Find Menu 27
6.1.6 Edit Menu 28
6.1.7 Window Menu 29
6.1.8 Gallery Menu 30

6.2 Screens 31
6.2.1 Digital Camera Registration Form 31
6.2.2 LCD Projector Registration Form 32
6.2.3 Monitor Registration Form 33
6.2.4 Scanner Registration Form 34
6.2.5 Speaker Registration Form 35
6.2.6 Display By Manufacturer 36
6.2.7 List All 37
6.2.8 Find by Filter 38
6.2.9 Find by Product status 39
6.2.10 Digital Camera Specification 40
6.2.11 LCD Projector Specification 41
6.2.12 Monitor Specification 42
6.2.13 Scanner Specification 43
6.2.14 Speaker Specification 44

CHAPTER 7: CONCLUSION AND RECOMMENDATION **45**
7.1 Conclusion 45
7.2 Recommendation 46

REFERENCES