

Universiti Teknologi MARA

Book Searching using Truncation

Muhammad Alif Bin Abdul Malek

Proposal submitted in fulfillment requirement for

Bachelor of Computer Science (Hons)

Faculty of Computer and Mathematical Sciences

24^m May 2010

ACKNOWLEDGEMENT

In the name of Allah, The Most Gracious, The Most Merciful, and Him alone are worthy of all praise

Thanks to Allah S.W.T with his will gave me strength to do this final year project without any problem and can finish it with schedule. This project also will not be complete without any help from people around me.

I would like to take this opportunity to thank my supervisor, Pn Norasiah Mohammad for her attention, helpful insights in the development of my project and also thoughtful comments and assistance.

I would like to address my deepest appreciation and thanks to Pn. Zaidah Ibrahim for his guidance throughout the Research Project course.

Special thanks to all my course mates, friends and lecturers for their help, support and guidance, and their valuable comments throughout the length of this study. I cannot end this acknowledgement without saying how grateful I am to my family and my friend who also guides me with their knowledge to make me completed this project. I also wish to thank my dad and my mother who have always supported and encouraged me from the very beginning to do my best in all matters of life. Thank you for the support, understanding, and loving that gave me the inspiration to complete this project.

Thank you, may GOD bless all of you.

ABSTRACT

Nowadays, book searching system or Online Public Access Catalog (OPAC) are commonly used among the students who want to search for the books. However due to the lack of understanding of the current system, it is hard for the students to search and find the books that they are looking for. Besides that, the current system actually tends to be designed with assumption that the user should have knowledge about the books such as subjects, author and title. Thus the students who not clear what they are looking for might give difficulties to them to search for it. That is explain why most of the student are most likely to do simple search (keywords) compared to advance search (search by title, author, etc.) to find their books. Based on the weaknesses, truncation is the suitable technique to be use and implemented for the current book searching system as to fulfill the requirements for the students to search the books efficiently.

TABLE OF CONTENT

INTRODUCTION.....	3
2.1 Research Background.....	3
2.2 Problem Statement.....	4
2.3 Objectives of the project.....	5
2.4 Scope of the projects.....	5
2.5 Significance of the projects.....	6
LITERATURE REVIEW.....	7
2.1 Introduction.....	7
2.2 Book Searching System/ OPAC (Online Public Access Catalog).....	7
2.2.1 Difficulties of System Usage.....	8
2.2.2 Effectiveness of Searching System.....	9
2.3 Process of Book Searching.....	9
2.4 Database Searching Technique.....	12
2.4.1 Keyword Search.....	12
2.4.2 Boolean Search.....	13
2.4.3 Truncation.....	14
2.5 Application of the Truncation Search Technique.....	17
METHODOLOGY.....	18
3.1 Introduction.....	18
3.2 System Development Model.....	18
3.3 Problem Identification and Analysis.....	19
3.4 Design.....	20
3.4.1 Project Formulation Framework.....	20
3.4.2 Detailed of the Framework.....	21
3.4.3 Project Framework Procedures.....	22
3.4.4 Project Layout Design.....	23
3.5 Development.....	24
3.6 Testing and Evaluation.....	25

PROJET DESIGN AND IMPLEMENTATION.....	27
4.1 Introduction.....	27
4.2 Page Navigation.....	29
4.2.1 Page Home.....	29
4.2.2 Page Advanced Search.....	30
4.2.3 Page Book Info.....	31
4.2.4 Page View In List.....	32
4.3 Example of Screenshot using the truncation searching.....	33
4.4 Other Features.....	38
4.5 Project Implementation.....	43
RESULT AND ANALYSIS.....	45
5.1 Introduction.....	45
5.2 Testing.....	45
5.3 Results and Evaluation Question.....	45
CONCLUTION AND RECOMMENDATION.....	51
6.1 Introduction.....	51
6.2 Conclusion.....	51
6.3 Recommendations.....	52
REFERENCES.....	53
APPENDICES.....	55