

**EMPLOYING LONGEST COMMON SUBSEQUENCE METHOD TO  
RETRIEVE TRANSLATED AL-QURAN DOCUMENTS**

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**Thesis Submitted in Fulfillment for the Degree of Bachelor Of Science  
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**April 2001**

## **ACKNOWLEDGEMENTS**

The first and foremost, I would like to thank to Allah A.W.T, for His Mercy and Compassion that enable me to complete this thesis.

The first attempt at any endeavor is always the most difficult and I have many individuals to thank for easing my task in coming up with this thesis.

Thanks to my lecturer cum supervisor, Assoc. Prof. Dr. Zainab Abu Bakar for her guidance and supervision to ensure this thesis was completed successfully. Special thanks to Dean of Information Technology and Quantitative Science UiTM, Assoc. Prof. Azizi Ngah Tasir, who permitted the usage of the computer facilities in the faculty. Also thanks to all my friends that support me to done this thesis from the start until the end of this thesis. Also to my family for the supported and the pray for me to finish this thesis easily.

The kindness, corporation and supports from all of the above mention people will always be remembered. May Allah Bless all of you, Thank you.

## **ABSTRACT**

Dynamic programming is introduced to serve as underlying principle for solving problems in different areas such as operations research, computer science, speech processing and string processing. Longest Common Subsequence algorithm (LCS) has been developed to solve string matching problems. This method is employed to retrieve documents from the translated Al-Quran. This approach will be introduced in the Web page as a search engine. Search engine will collate and return a list of clickable URLs containing presentations that match with word related. The list is ordered, with the best match appearing at the top of the Web page.

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# **CHAPTER I**

## **INTRODUCTION**

### **1.1 Background**

Longest Common Subsequence algorithm has been developed to solve string matching problems. The problem is, to find the existence of a sequence of a short string in a long string. The method are employed to retrieve documents from the translated Al-Quran. This approach will be implemented on the Web page as a search engine. This new search engine will be very easy to use, as the users only need to type in the topic that they want. Search engine will collates and return a list of clickable URLs containing presentations that match with the topic. The list is ordered, with better matches appearing at the top of the Web page. In this project, this search engine will retrieve the Translated Al-Quran Documents file in the database.

### **1.2 Problem Description**

The Internet is the important feature that helps people to search information. The purpose of the search engine is to minimize the time and stepping stone to get the information from Internet. As we know, nowadays there are only several search engines in the Malay Translated Al-Quran, published by the organization or personal Web. Therefore, a Malay Translated Al-Quran needed to compete with other search engine and also help people (Malay or who know Malay language) to make ease search in verses of Al-Quran.