

**Universiti Teknologi MARA**

**Development of Mobile Application for  
Malay Hadith Search Engine**

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## **ABSTRACT**

Nowadays, the usage of mobile application has increased among mobile phone users. There are a lot of existing web application has moved to mobile based application so that they can increase their audience coverage. Some limitations for web application are the design is to optimize its usage on desktop computer but not on mobile devices and it also need internet connection to use the web application. Next, there are some examples of mobile operating system which are Android and iOS. We need to develop a mobile application for Android and iOS mobile application using hybrid mobile application framework which is Flutter framework. Therefore, users that are using either Android or iOS mobile phone can both use this application. A hadith search engine mobile application can help people who are seeking knowledge to learn more about Islamic knowledge in hadith. This application has search and directory features for user to browse the hadith collection. Users can enter their query using search features to find the hadith. The query will be processed using some of the process in information retrieval which are tokenization, stemming and stop words removal. Lastly, this application should display the relevant result based on the user's query.

## TABLE OF CONTENTS

<b>CONTENT</b>	<b>PAGE</b>
<b>SUPERVISOR APPROVAL</b>	<b>ii</b>
<b>STUDENT DECLARATION</b>	<b>iii</b>
<b>ACKNOWLEDGEMENT</b>	<b>iv</b>
<b>ABSTRACT</b>	<b>v</b>
<b>TABLE OF CONTENTS</b>	<b>vi</b>
<b>LIST OF FIGURES</b>	<b>ix</b>
<b>LIST OF TABLES</b>	<b>xii</b>
<b>CHAPTER 1: INTRODUCTION</b>	<b>1</b>
1.1    Background of Study	1
1.2    Problem Statement	2
1.3    Objective	3
1.4    Scope	3
1.5    Significance of Project	3
<b>CHAPTER 2: LITERATURE REVIEW</b>	<b>4</b>
2.1    Mobile Application	4
2.1.1    Types of Mobile Application	5
2.1.2    Comparison between types of mobile applications.	9
2.2    Information Retrieval	10
2.2.1    Search Engine	11
2.2.2    Query Processing	11
2.2.3    Tokenization	12
2.2.4    Stop words	13
2.2.5    Stemming	13
2.2.6    Indexing	14
2.3    Malay language	15
2.4    Hadith	15
2.5    Interface design	16

# CHAPTER 1

## INTRODUCTION

This chapter provided an overview of the project. It also discussed about the background of study, problem statement, project objectives, project scope and project significance.

### 1.1 Background of Study

Current records showed approximately 3 billion people worldwide own a smartphone (Sinnott, 2018). Mobile app usage is growing 6% Year-on-year (Chaffey, 2018). There are a few mobile operating system. The top popular mobile operating systems are Android and iOS, but others include BlackBerry OS, webOS, and watchOS (Viswanathan, 2018).

Malay language has been a spoken language widely especially for countries in Southeast Asia. Malay became the *lingua franca* (adopted common language) among traders who travelled through Malacca in the 15th century (Fernandez, 2016). The language is still widely spoken in Malaysia, Indonesia, and Brunei, many Singaporean and Southern Thailand also speak the language (Muhamad, Kamis, & Mat Junoh, 2003). According to Internet World Stats, Malay language is on 6<sup>th</sup> place of most used language in the web by December 2017 (“Top Ten Languages Used in the Web,” 2017).

Sunnah refers to all that is narrated from the Prophet Muhammad his acts, his sayings and whatever he tacitly approved (Masud, 2013). Many of the companions of the Prophet Muhammad memorized and wrote down Prophet’s statements and actions to pass down the hadiths to their students. Several Muslim scholars collected these hadiths into compilations which have become widespread and are the main sources of hadiths until today (“What are