

**Universiti Teknologi Mara**

**USER INTERFACE FOR SEMANTIC  
SEARCH ENGINE**

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## **ABSTRACT**

Search engine is used to retrieve information from the World Wide Web. However there is a deluge amount of documents retrieved by a given query from the user. Users have difficulty to select relevant documents. With semantic search engine, user can acquire relevant document that is sufficient enough that answer user query. Research has been shown that semantic search engine performs better than available search engine. However to build a semantic search engine requires representing deluge information in triples. In this project, Semantic Search Engine for Durian is built. User interface will act as a connector between the system and the user. User will see what the system should do. User interface can be a catalyst for the user to use the search engine over and over again. A good interface should have a simple design and user friendly environment. Firstly, documents from html documents related to Durian and query are collected. Triples from the documents are extracted and saved. Finally the semantic search engine King is constructed. The king has been successfully been tested and only relevant documents is presented.

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## CHAPTER 1

### INTRODUCTION

#### 1.0 Background

The rapid growth in the size of the web user is because people highly prefer to use web service as a source of information provider. This is because the available information in the web is faster and easier to be accessed which is just by type in the certain word or question you desired. In 2001, Liddy stated that web search engines are a well-known component used for an information retrieval (IR) system. Similar to many other IRs, web search engine provides a simple and efficient facility and management that allows us to get information based on particular term (Zhang, Long & Suel, 2008). Web search engine also provides an information or recommendation to user which might be searching for information or trying to make purchase (Feng, Bhargava & Pennock,n.d). As the time passed by, web search engine has become the most popular tools for locating information as the performance of the service for the user is well organized to make the search result to be more useful to the user (Zhang, Long & Suel, 2008). As enormous amount of information are contain in the web and yet they keep expanding, the queries are needed to specify the related information as access tool for user. The search responses after the query or question typed in the search box or text field.

Despite the increase of information, the number of search engine has also increases to the respect of time (Lawrance & Gilles, 1999). Therefore , in order to find the most suitable and precise information over billions of information that match with user query, search engine need to have an advance mechanism in order to generate high-quality matching, ranking, personalization and be able to give the most relevant throughput. These features provide the best service to the user (Zhang, Long & Suel, 2008). Even though there are many existing search engines, the current search engine techniques are