

**UNIVERSITI TEKNOLOGI MARA**

**MOBILE COOKBOOK  
APPLICATION WITH SEARCHING  
BY INGREDIENTS**

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**Mobile Cookbook Application with  
Searching by Ingredients**

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**Thesis submitted in fulfillment of the requirements  
for Bachelor of Computer Science (Hons) Faculty of  
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## **SUPERVISOR'S APPROVAL**

### **MOBILE COOKBOOK APPLICATION WITH SEARCHING BY INGREDIENTS**

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This report was prepared under the supervision of the project supervisor, Encik Mohammad Bakri bin Che Haron. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons) Programme' Name.

Approved by

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Encik Mohammad Bakri bin Che Haron

Project Supervisor

JULY 30, 2015

## **STUDENT'S DECLARATION**

I certify that this report and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

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## ABSTRACT

Technology and time change has accelerates the transformation of traditional recipes which were stored in a recipe box tucked in the cupboard to a modern version which is digital cookbook. One example of digital cookbook is cookbook mobile application. Based on the observations of existing mobile applications, existing application support search by ingredient but it does not highlight the ingredients that is matched with the ingredients of the recipe in database. Existing mobile application are able to search only for one ingredient. Frustrating things when preparing a meal is forgetting the key ingredients. Through this project, a cookbook mobile application will be developed using agile framework. The searching techniques that will be used is sequential search algorithm for searching recipe by name and for searching by ingredients, the set algorithm will be used which is intersection algorithm to solved the problem. This cookbook application can help user to decide which meal to cook based on the ingredients that user have. User can view the ingredients that are missing more clearly since this cookbook application will highlight the ingredients that is matched with the ingredients of the recipe in database. User can view ingredients for any recipe wherever they go by using their phone as this application is an mobile application. They can access it anywhere and anytime they go especially when cooking in the kitchen or buying groceries at the store. User also are able to view the recipe details either by search by name, list of recipes, or search by ingredient. There are room for the improvement to be done in the future. One of those are the image of each ingredient can be display and more data should be added to improve more result when searching for recipe. Besides, the search by ingredient should able to search with the exact amount that user want. The other recommendation that also can be added is details of the recipe can be changed according to the number of serving which will change the amount of each ingredient according to the number of serving.