

**Universiti Teknologi MARA**

**Development of  
Inventory System with Stock Tracking Notification  
for Bookstore (NotiTrack)**

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**Thesis submitted in fulfillment of the requirements for  
Bachelor of Information Technology (Hons.)  
Faculty of Computer and Mathematical Sciences**

**JANUARY 2017**

## ACKNOWLEDGEMENT

*In the name of Allah, the Most Gracious and the Most Merciful.*

*Peace and blessings of Allah be upon Prophet Muhammad S.A.W*

First and foremost, praise to Allah S.W.T for all His blessing and giving me strength, idea and opportunity to complete my project. Without His blessing and permission, who I am to complete this project.

I want to express my sincere and deepest appreciation to my supervisor, Madam Mudiana Binti Mokhsin @ Misron, for her supervision and endless support. Her precious help of constructive criticism and suggestion had helped in completing this report. Same goes to my appreciation to Madam Jamaliah Tasnim as my lecturer for CSP600 (Project Formulation) and Madam Rogayah Binti Abdul Majid as my lecturer for CSP650 (Final year Project), who has guided me a lot during the whole semester. Also, I would like to express my gratitude to ABA Bookstore which located in Seksyen 7, Shah Alam, for their friendly cooperative during the interview session in gathering the requirement.

Most importantly, I would like to express my thankful toward my parents and family for their support and motivation during this project and always pray for my success. Last but not least, I also like to thanks to all my friends for their help and support in this project Thanks for inspiring me in such a means that could be written in words.

Only Allah S.W.T can repay your kindness.

Thank you, may Allah bless all of you.

## ABSTRACT

In this modern technology world, there a lot of technology that has been used in the world of business especially in inventory management since it is become crucial for the business and it can determine the growth of business and it success. There a lot of approach that can be used to manage inventory. In this project, an inventory system with stock tracking notification which is called NotiTrack, is introduced to help ABA Bookstore in managing their inventory. NotiTrack is a system of managing and monitoring inventory on academic book as well as for tracking down the stock of book. Currently, ABA Bookstore faced problem where sometimes they have the difficulty in tracking stock because they lost track of how many stock left after it has been sold and sometimes they did not aware of out-of-stock items because of not having a proper inventory system management. Therefore, by developing NotiTrack system which can help them in track their stock and with this NotiTrack mobile application that using barcode scanner technology that embedded within the apps as well as received notification on near out of stock book. The use of this barcode scanner is to scan the barcode on the book and capture it ID to send to the database and deduct the quantity of the book ID. When the times come, which is the quantity of the book is near out of stock that has been set on the NotiTrack web application, the user will receive the notification about the near out of stock book so that user will aware of it. Mobile Application Development Life Cycle (MADLC) methodology was used to develop NotiTrack system. The phases involve in the methodology are Identification, Design, Develop and Prototyping. As the result, this system is able to keep track of book stock in the ABA Bookstore. For the future work, NotiTrack system can be expanded use on other item as well such as stationery and also this system could be available for all version of mobile platform.

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# CHAPTER 1

## INTRODUCTION

### 1.0 Introduction

This chapter, it will explain about the project background, the problem statement, objective, scopes and the significance of the research study. This chapter is divided into eight sections which are research background, aim, problem statement, research question, research objective, scope of research, research significance and summary.

### 1.1 Project Background

Inventory Management system are concern about how companies track and control their inventories. Being able to measure inventory in a convenient and exact way is basic for having continuous business operations since inventory is frequently one of the biggest current assets on a company's balance sheet (Way, 2007). Having an inventory control system is important since it determine whenever stock is going in or out and it is also important to know the availability of a particular stocks all the time so that can provide better customer services.

Inventory management system can be difficult if it didn't track the stocks in proper way since tracking stock is one of the ways in order to have a good inventory management system. Tracking stock is a great factor that can affect the inventory management system since it will improve the accuracy of inventory orders and also it can lead in increasing of efficiency and productivity. In this project, NotiTrack is introduced which the system is called. NotiTrack system are categorized into two part which are the web application and mobile application. In the web application part, it is used to manage and monitor the product stock and staff that are registered inside the system while on the mobile