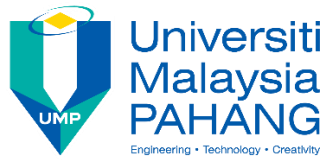


**GPS-BASED  
MOBILE APPLICATION  
FOR WHEELCHAIR PATIENTS**

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## **SUPERVISOR'S DECLARATION**

I hereby declare that I have checked this project and, in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor in Computer Science (Computer Systems & Networking) with Honors.

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## **STUDENT'S DECLARATION**

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

---

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Date : DECEMBER 2018

GPS-BASED  
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Thesis submitted in fulfillment of the requirements  
for the award of the degree of  
Bachelor of Computer Science (Computer Systems & Networking)

Faculty of Computer System & Software Engineering  
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## **ABSTRAK**

Pada abad ini, aplikasi mudah alih yang dibuat menjadi sebahagian daripada aplikasi dalam kehidupan manusia. Ia membantu mereka membuat atau mendapatkan sesuatu dengan mudah tanpa keluar dari rumah. Begitu juga, “GPS-Based Mobile Application for Wheelchair Patients” dibangunkan untuk pesakit kerusi roda untuk membeli ubat di kedai ubat tanpa pergi ke kedai khusus. Aplikasi ini juga membantu untuk mengesan ketibaan lokasi dan ia boleh dilihat oleh pesakit kerusi roda selepas pesanan disahkan. Aplikasi ini membantu pesakit kerusi roda yang mempunyai banyak masalah untuk pergi ke kedai ubat seperti ketika mereka sukar untuk mendapatkan pengangkutan dan mereka memerlukan bergantung pada bantuan orang lain. Selain itu, pesakit kerusi roda akan menerima ubat sebagai penyerahan rumah dan penjual mudah untuk menyimpan atau melihat pangkalan data jualan. Oleh itu, objektif projek ini adalah untuk mengurangkan masalah pesakit kerusi roda yang dihadapi semasa membeli ubat di kedai ubat dan memudahkan untuk mengesan penghantaran item dengan menggunakan GPS. Di samping itu, penjual boleh mengiklankan butiran perubatan di antara muka pengguna akan membuat pengguna dapat mengetahui lebih lanjut mengenai pelbagai maklumat tentang perubatan. Ini akan membantu pengguna membeli ubat yang sesuai untuk mereka. Lebih-lebih lagi, menambah perkhidmatan penghantaran juga memainkan peranan penting dalam aplikasi ini untuk memudahkan pengguna membeli ubat tersebut.

## **ABSTRACT**

In this century, the mobile application that created become a part of the application in people life. It helps them make or get things easily without going out of the home. Likewise, the GPS-based Mobile Application for Wheelchair Patients is developed for wheelchair patient to purchase medicine at medicine shop without going the shop. The application also helps to track the arrival of location and it can view by the wheelchair patient after the order placed. The application helps the wheelchair patient who has many problems with going the medicine shop such as sometimes they hard to get transportation and they need depend on other help. Besides that, the wheelchair patient will receive the medicine as a home delivery and seller easy to the save or view the database of sales. So, the objectives of this project are to reduce the problem of wheelchair chair patient faced during purchase medicine at medicine shop and make easy to track the delivery of item by using GPS. In additional, the seller can advertise the medicine details in the user interface will make the user get to know more about various medicine information. It will help the user to purchase good and suitable medicine for them. Moreover, adding delivery service also plays important role in this application for make user easily purchase the medicine.

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## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 OVERVIEW**

This chapter gives a general summary and review of the GPS- based Mobile application for wheelchair patients. Wheelchair patient means an individual having a problem with their physical or bones such as the inability to walk long distances, balance or gait problems and broken bones or injury to the legs or feet. Due to that problem, they need a wheelchair as a supportive tool for go wherever in short distance. Moreover, they need someone who helps them for 24 hours such as help to go washroom, take food and mainly to purchase medicine. So, the best way to reduce the working load of wheelchair patient helper or make the wheelchair patient feel independent is the mobile application for purchase. Through the mobile application for wheelchair patients, they can purchase medicine without depending others.

## 1.2 BACKGROUND OF STUDY

The project is titled "GPS-based Mobile application for wheelchair patients ". This system developed will help the wheelchair patients to purchase various medicines and medical things without going out of the home because this application also helps to deliver the item that ordered at home.

As mention in the overview, wheelchair patient is the disabled person who has a physical problem (Amber Erickson, & Heaven S,2016). Wheelchair patients in Malaysia so as to accomplish social value in all areas including access to public facilities, training and buildings, public transport facilities, education, employment, information, communication and technology, cultural life, recreation and sport. For example, their many facilities that made for wheelchair such as accessible parking, elevator buttons, mobility vehicle, ramp into a building or bus, washroom service in every R&R stop and platform lift installed at the main staircase to the light railway transit station at a major transportation hub. From these facilities, we know that our government more concern about wheelchair patient too (Girase,, & Deshmukh, 2016).. As wheelchair patient, they also feel want be independent without depending others help. Due to this problem that mentions in earlier, selecting the mobile application plays the important role to solve their problem. Nowadays everyone has their own smartphone even a kid. It makes our lifestyle simple and easier.

Technology plays an important role in our society, especially in the 21st century. There are a lot of requests for mobile devices to satisfy the necessities of an individual, society, associations and nation because of demand their life easier, minor in mistakes, and save the time. Thus, create a mobile application for wheelchair patients is a solution that accomplishes their all demands. There are a lot of systems and applications existed nowadays that meet those requirements but not specific for wheelchair patients. The main reason to develop a mobile application for wheelchair patients is they hard to travel wherever place with their physical problem. So, the mobile application helps them to get medicine that they need on available time. As the world is turning into a worldwide



commercial center due to the advancement of online shopping, it is important to understand how consumers perceive the current buying trend and what has influenced their buying behavior (Perdagangan, 2013).

Besides that, so many online applications such as 'Shopee', 'Lazada' and 'Amazon' are not using GPS tracker for a user to track the current location. By including GPS tracker can reduce complication to track the current location by a user due to emergency purpose. Moreover, the assistance of Global Positioning System (GPS) in the smartphone along with the delivery system can be improved in term quality of service to the customer. In result, increasing satisfaction from the customer can be achieved. This group of the application can be the perfect tool and very helpful toward the customer in a way of making order easily, can track the location of seller specifically and doing the system more systematic with the lack human error.

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