

**Universiti Teknologi MARA**

**MyClinic: Location Awareness Mobile Application  
using Geo-Fencing**

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**Thesis submitted in fulfillment of the requirements for Bachelor of  
Computer Science (Hons) Netcentric Computing  
Faculty of Computer and Mathematical Sciences**

**January 2019**

## **STUDENT'S DECLARATION**

I certify this report and the research is the product of my own work and any of idea or quotation from the work of other people, published or otherwise are fully acknowledge in accordance with the standard referring practices of the discipline.

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DECEMBER 23, 2018

## **ABSTRACT**

MyClinic is a mobile application that implement location awareness technique by using geo-fencing. Location awareness refers to the devices that can determine their location either passively or actively. At this moment, government clinics patient often wasting their time at the clinics waiting for treatment due to the numbers of patient keep increasing. They also find that it is tough to find and save the nearest government clinics number phone. Therefore, this project has proposed MyClinic application which has been developed to be used at government clinics in Malaysia. By using this application, the user can take queue number using the application when they are in the geo-fencing of the clinics. It also gives a help for the user to contact the nearest government clinic by using this application with the help of Google Places API. The project has been successfully developed. The application also has been evaluated in terms of the waiting time. The results show that the waiting time have been affected by the network coverage used by the user. The average waiting time for 4G network coverage is within 4 seconds. In conclusion, MyClinic can help in providing the queue numbers taking process by mobile phone and help contacting nearest government clinics.

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