

**UNIVERSITI TEKNOLOGI MARA**

**THE DEVELOPMENT OF MOBILE  
APPLICATION FOR CLINIC  
MANAGEMENT SYSTEM: A CASE  
STUDY AT AJWA CLINIC**

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IT Project submitted in partial fulfilment  
of the requirements for the degree of  
**Master of Science in Information Technology**

**Faculty of Computer and Mathematical Sciences**

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## AUTHOR'S DECLARATION

I declare that the work in this IT Project was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as reference work. This IT Project has not been submitted to any other academic institution or non-academic institution for any other degree of qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Post Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

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## **ABSTRACT**

Mobile application is a new way in developing application that focuses on portability and easier to manage application due to the many functions they can perform with only a single click and the automation of processes were made easier. Mobile Application not only being used as an entertainment or learning tools, but was widely used in healthcare solution by medical centers and hospitals. Compared to other established medical centers that were equipped with the latest Information Technology (IT) systems for their Clinic Management System (CMS), Ajwa Clinic currently did not possessed any advance systems or mobile applications. And so, the research aimed to provide Ajwa Clinic a mobile application for its CMS. In the methodology phase, researches on the design requirements and current operations of the clinic have been made first in order to develop the mobile application. The application was then designed for its activity flow and interfaces. After obtaining the result from the design phase, the development phase of the application was conducted. During this phase, a prototype of the system were made based on the design requirements obtain through interviews, group discussion and research on existing application and also based on the paper prototype made in early development of the application. The outcome of this project was a prototype in which is tested in both the virtual environment and the real devices for its efficiency. An enhanced version of the current prototype that included more functions and modules was suggested as a future recommendation for this project.

**Keywords:** Healthcare system, Clinic Management System, Mobile application development, Clinic application, Paper prototype

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