UNIVERSITI TEKNOLOGI MARA

CLOUD-BASED AUTOMATED HOSPITAL APPOINTMENT REGISTRATION SYSTEM WITH QR CODE

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ABSTRACT

The patient appointment registration system in any hospital is currently having problem in terms of time consumption and the costs of maintenance. Therefore to solve this issue, this project aims to create a cloud-based automated hospital appointment registration system using QR code to ease the process of registering new patients and speed up the waiting time for the rest of existing patients. By using this system, the patients will not have to worry about losing their appointment card and it will also reduce the waiting time in the hospital. The patients are required to fill up their personal information into the new system. The system will then automatically generate a unique QR code for each patients to be presented at the registration counter. This project was split into five (5) phase: Planning, Requirement Analysis, Designing, Building, and Testing. This project is based on Agile Model of SDLC to make sure that the objective of the project can be achieved. In result, the patients will be able to register new account, access their account, own a unique QR code and also scan QR code. There are still some future work that need to be done to fully implement the system.

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CHAPTER 1

INTRODUCTION

This chapter provides the background and rationale for the study. It also gives details of the problem in the existing system, objectives, scopes and significance of this project.

1.0   Project Background

A hospital is a place where patients seek treatment. Usually, patients have to line up for registration, see a doctor, make appointments and take medication from the pharmacy. The existing or first-time patients who suffering from any disease despite the mild to even the chronic one will usually take a day leave from work to undergo treatment. This is due to the disorganization in current hospital management system. The patients had to wait longer if there are too many people on the waiting list. Basically, they need to line up at least 4 times that day as mentioned earlier. In this case, the hospital needs an appointment registration system that will utilize a central patient registration database that contains basic detail information on each patients and their health record.

Moreover, with cloud hosting, only the services that are needed should be paid, for example, security expertise. The website would not go offline from an unexpected traffic surge. Cloud takes backup of the data at a safe and secure location and protects it from sudden power failure, natural disaster, or other crisis. Using the cloud, it can frees up the time so the hospital staff can get on with running the business. The system will also regularly be updated with the latest technology according to the cloud computing service provider. Thus, it is suitable to implement cloud-based automated hospital appointment registration system. It provides unique QR code for each patient so that other patient cannot copy the same QR code. (Queensland, 2017)