UNIVERSITI TEKNOLOGI MARA

DESIGN SMART DIGITAL SIGNAGE SYSTEM BASED ON RASPBERRY PI 3 FOR HOSPITAL'S INFORMATION

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ABSTRACT

Digital Signage System using some computer devices is used for display information about healthcare, awareness, notices also queueing number for patient to meet their doctor in hospital. But, some of the information that need by the patient cannot be access outside of the hospital area. A suitable solution is to make this information accessible via internet. In this research, we designed a digital signage system using Raspberry Pi 3 for hospital's information system. Raspberry Pi 3 is minicomputer act as a digital signage player to store and show real-time information. Moreover, to design Smart System, this digital signage system is integrated with mobile application to provide reliable real-time delivery of information and can notify patients about their queue number if now is their turn. The result shows that the system digital signage system hospital's information has been successfully designed. The result also shows the two Smart Digital Signage System designed for different hospital is support real-time delivery information to notify the patients anywhere.

TABLE OF CONTENT

CHAPTER 1

1.0 INTRODUCTION

RESEARCH BACKGROUND

Digitalization means the process of making digital everything that can be digitized and the process of converting information into digital format. It also means computerization of systems and jobs for better ease and accessibility. Digital Signage has been used in many work areas to deliver information and some of it being used in Hospital. There is many benefit of using such as Safety, rules and compliance data. Digital signage can act as an emergency alert system [1] by informing people to get out of harm's way can alleviate their panic and greatly influence hospital morale. This system can be improvised if the information can be access by smartphones so that people with the access of internet get the latest information from the hospital.

Digital signage is words that define a method to display digital multimedia contents publicly [2]. These systems can display dynamic information, unlike wall ads that are