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Accident Emergency System (ACCES): Notification System (NotiS)

Siti Fadhilah Binti Abdullah

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ABSTRACT

Accident occurs everywhere and anytime. In some situation, because of the late arrival of the ambulance at the accident location, it might lead to the victim's condition to become more serious because the loss of blood. There is no system that directly connected to the private hospitals. In the system that being used now, if there are reports about accident, the call centre will report it first to the police station and to the government's hospital. This process is time consuming and could harm the victim's condition. Due to this situation, an emergency system is planned to be developed, so that the public can use it when accident occurs. The objective of this system is to alert the staff in the private hospital to send ambulance immediately if accident occur. This system is triggered by the public who witness any accident occurrence by sending the notification to the server. The server then route the notification to the hospital's computer and requesting for ambulance. If the ambulance is available, the dedicated staff will accept the request and alert the driver. The location, phone number and other information of the witness will be display in the system. Otherwise, the staff will REJECT the notification. The expected outcome of this system is the best result in performance and speed of sending ambulance immediately to the accident locations (response time).

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

ACCES is a system to help citizen in a rural area or area that far from a hospital to call ambulance if accident occur in that area. It is a combination of tracking system and messaging system application via mobile phone. This system consists of three modules that are user side (android application), server and notification system.

User side module is developed an application for mobile phones where users need to choose the services that they needed. ACCES provided two services to the user that includes emergency service (Emergency) and providing address of the nearest hospital (Hospital Address). If the users choose emergency service (Emergency) that meant they are request an ambulance to the accident location. If the user request the address of the nearest hospital, they will be received the address of the nearest hospital from the server.

For the Emergency option, the server will detect the location of the phone using the Google maps application and will search the nearest hospital no matter private or government to send ambulance to the accident location immediately. The system will respond with the nearest hospital in radius of six to ten miles and give the information such as location, address and also phone number of that hospital.