UNIVERSITI TEKNOLOGI MARA

DEVELOPMENT OF MOBILE LOCATION BASED NOTIFICATION FOR CRIME CASES TRACKING AS AN ALTERNATIVE ALERT FOR PUBLIC SAFETY

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ABSTRACT

Today, the public finds the info about crime cases activity in their neck of the woods from the read in the social media services, or requested the information from the police department. This study is to develop a system for Crime cases that capable for public or police officer to get an alert notification regarding of criminal hotspot. User also can search manually the crime cases in their neighborhood based on the current location (longitude and latitude). This study has been carried on to introduce Location Based Services (LBS). In order to develop the application with Android platform and Java, the researcher is using Eclipse IDE to support the development and use a SQLite database to store the data. The result showed that average speed of access to receive alert notification are 7.77 sec, 7.34 sec, 6.95 sec and 6.41 sec for GSM, 3g, GPS and WLAN accordingly.

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CHAPTER 1
INTRODUCTION

1.1   BACKGROUND

Nowadays, many issues and trend of crimes such as robbery, drug addicts, rape, murder or snatch had arisen via the whole world. According to (Sung, 2013), the crime statistics was rising between 1% to 8% per year in the three decades. The researcher also argues that the total crime in Malaysia has been contributed until 13.5% in the coming years.

Figure 1.1 pictorially represents the crime index during the 2012 and 2013 in Malaysia. Like in the research done by (Hector, 2013), the crimes that are reported by the community have decreased by 27.8% from 2012 to 2013. However, the researcher argues that real statistics of crime rates are higher than reported by police. These articles discuss some possible causes of the unreported cases such as the victims feel the crime does not be solved anyway and waste time or feel the crime is too unimportant. These areas of crimes were happening shows that the public, especially to avoid being the victims need for valuable information in their neighbourhood about the recent crime activity. To overcome those crimes a lot of effort and works had been done in many countries everywhere in the world with their goal to be a less crime country.