UNIVERSITI TEKNOLOGI MARA

CHILD TRACKING SYSTEM USING GLOBAL POSITIONING SYSTEM (GPS) AND MOBILE DEVICES

MUHAMMAD AKIM MUQRIS BIN RIZAN

BACHELOR OF COMPUTER SCIENCES (Hons) NETCENTRIC COMPUTING

Faculty of Computer & Mathematical Sciences

21 NOVEMBER 2020

ACKNOWLEDGEMENT

ABSTRACT

Child tracking system is an application that can track the child location. Usually, parents have trouble knowing the safety status of their child if their child is outside of their care. For example, parents at work, he does not know what his son is doing at home or at school. However, with a child tracking system they can accurately locate their child's location. Not only that, this application is very easy to use and very accurate location detected because of using GPS technology. The purpose of this project is to reduce the risk of child accidents out there so that parents can live more calmly. An investigation of the frameworks has been made to consider the issue of the framework, there is a framework that should be upgraded to improve the functionality and performance location accuracy of the system. Finally, the final task is testing, which is application client unit are testing, UI testing and client acknowledgment testing are upgrade to test for the framework functionalities and exactness of the area. The end-product shows that the framework functionalities functions admirably and the clients are happy with precision area of the framework.

CHAPTER

CHAPTER

CHAPTER 1

INTRODUCTION

1.1 Background of Study

In this era of advanced technology, Technology seems to grow rapidly and becoming more sophisticated. According statistic on 2019, 80% of people in the world having smart phones, its uses by the people for different purposes (Joseph Johnson, May 11, 2020). It expends with every person, regardless of old person or child. Child more and more each day learns quicker in that field. Where a child level has a feeling that want to try everything that can accumulate many problems. We cannot predict what will happen next to us in future or next minutes including also our loving child, but we can prevent it from happening by being prepared from the beginning and learning what needs to be resolved. As a responsible parents, the most adored thing are their kid, particularly with respect to the wellbeing of their youngster.

In addition, children in this current age are handily impacted by their closest companions, and they may even get captured by any of the outsiders. From 2012 to 2017, there were 482 cases of children under the age of 18 reported missing in Malaysia. Taking statistics in 2017, it can be said that an average of 4 children are missing for every day in this country, said Deputy Home minister Datuk Ismail Mohamed (The Star Online). The main problem is parents had no alternative on how to monitor their own kids. From this, the children realize that parents did not know their where about thus the children act on their own to go wherever they want. Its mean the modern parents nowadays are always so busy with smartphones in their hands that they ignore children. For examples, as what had happened to a girl form 3 almost fell victim to a kidnapping in front of a school at about 10.30am. The student had just attended an extra class and there was a man helping the student from being kidnap at the time. (Muhammad Aminnurariff, 2019). This is shows that, to minimize this accident from happening again in the future, the technology need to be used to deal with the problem.