Child Tracking System

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Abstract: *The child tracking system is an application that allows you to track and monitor your child's location. It provides parents with complete information about the driver and also informs them if their child has arrived at school. It's convenient for parents as they don't have to look for a van / rickshaw driver to take their children to a reputable school. They can simply enter their school and the application gives them a list of drivers to choose for their destination. The purpose of this project is to create a system that can monitor children when parents cannot see them. However, the child's location system allows parents to track and monitor their child's location in one simple application when they are in the office.*

Keywords: E-Book, PDF, Text, Images, Laptops, Smartphones

I. INTRODUCTION

Child Tracking System is a mobile application that helps parents track and book school buses / rickshaws to ensure that their child has arrived at school successfully. It provides parents with complete information about the driver and also informs them if their child has arrived at school. It's convenient for parents as they don't have to look for a van / rickshaw driver to take their children to a reputable school. They can simply enter their school and the application gives them a list of drivers to choose for their destination. In today's generation we see most of the small kids travel to school with their school buses as their parents are busy with their work, and also in todays generation we can't trust on others, so a threat of getting child misplaced is there and so we thought to cope up with this major problem.

II. PROPOSED SYSTEM

2.1 Initial Planning Phase

This phase begins with a rough discussion of the project title proposed to the supervisor and the specific project for adding new utilities or updating some features of the old system. All of these are planned for a period of time .Plan Before proceeding to the next step in system development, system requirements are identified, system development is performed based on those requirements, and the system follows the project flow. Geofence was chosen as the method for this project because it is the best method for this type of application. Analysis: In this phase the system requirements have been investigated and the system is configured to work well with geo-fencing technology, so there will be no problems in the future. In addition, all requirements already analyzed will be used as project guidelines to meet user requirements. For this reason, a simple interface suitable for use with geo-fence technology and user requirements is designed to make your application user-friendly and user-friendly. Themes UI themes include maps, user logins, and more. This stage is also important to make your application look simple yet beautiful to your users. Developers should keep in mind that application development is a user-based requirement, not the developer himself. Apart from that, the UI should look more user-friendly than older systems. The navigation of the system will also be neat and beautiful.

2.2 Implementation

In the implementation phase, the analysis phase and the previous phases are implemented here. The system is coded, installed, and tested to implement what was previously agreed to complete the system. The project was developed as an open source application and anyone can use and maintain the system.

III. LITERATURE REVIEW

Kidnapping, missing children, and child sexual abuse are global issues related to child safety. Children in the age group of 4 to 8 are innocent and are frequently kidnapped. [1]

The child recognition device has two main units, dedicated to the parent and the child. The child unit acts as a transmitter that sends GPS signals, and the parent unit uses its Smartphone to receive signals that determine the position and distance of the child. [2]

The slave module contains the ARM7 microcontroller (1 piece 2378) Global Positioning System "GPS". The Global System for Mobile Communications (GSM) voice playback circuit and receiver module contains one Android mobile device in the parent's hand and the other as a monitoring database in the school's control room. [3]

Our system ensures maximum security and guarantees live tracking of your child, as parents' concerns are real. This paper proposed a model of child safety via Smartphone. It provides the ability to track the location of the child and the ability to send quick messages and current location via short message service in an emergency. [4]

IV. FEATURES

1. Live location in no time
2. Notification alert on arrival
3. Vehicle selection
4. Multiple payment options
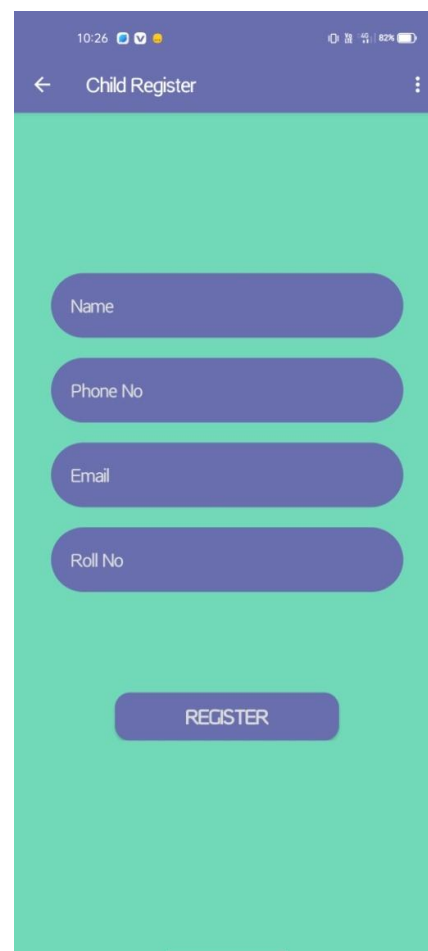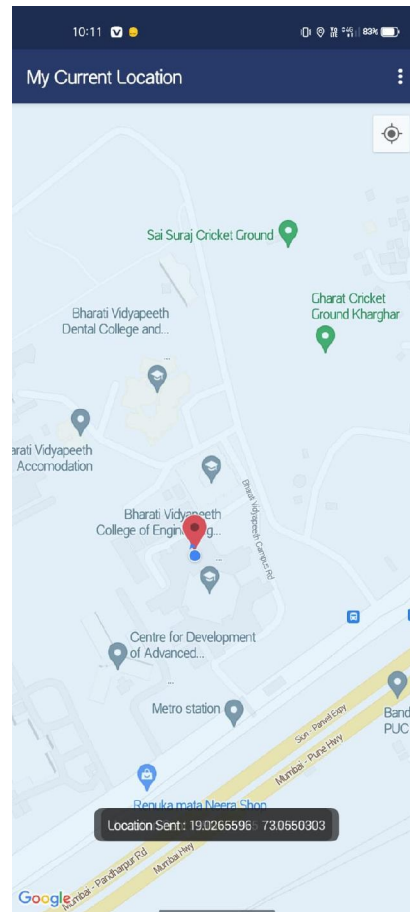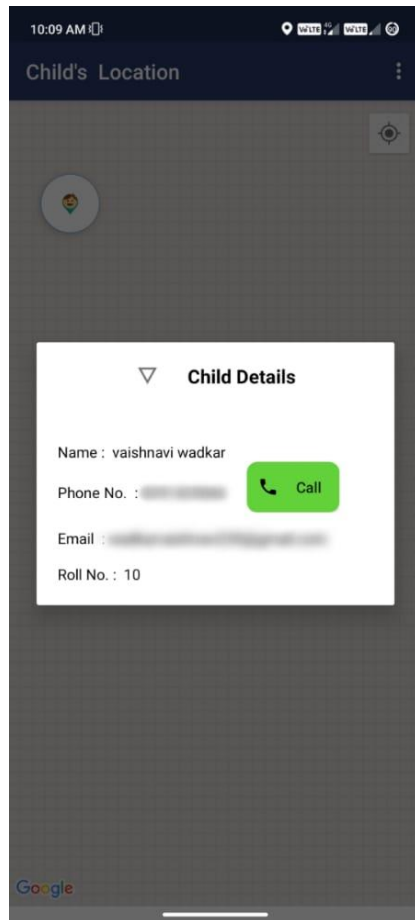
V. CONCLUSION

In summary, the system is designed to find children for parents, and this study suggests that GPS tracking technology may be a practical option for monitoring and tracking children on their way to school. It focuses primarily on tracking the location of the child, and monitoring the health of the child is sent to parents and the control room.

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