Child Rescue System
Devisetty Rama Mani Sankar, Siva Chandru, Yuvarajan, Umamageswaran
Assistant Professor
Department of Information Technology
R.M.K Engineering College, (Affiliated to Anna University), Chennai, Tamil Nadu, India

Abstract:
Child under the age of 8 can't remember the details like parents phone number, email id, home address. So if the child missed who is under age of 8 can't reach home easily right now the system will use photo of child to reach home this system not that much efficient to find parents details of child. Our proposal idea will make much easier and efficient than current system. Once we found any child is missing any crowded areas like tourist places. Child rescue system application will help to reach home, we will use child’s fingerprint by placing child finger on fingerprint sensor. Then immediately child parents will get notification of child area and profile details of helper (who is helping to child to get child parent details from child fingerprint), then this profile details, parent details and child details will be sent immediately two police stations, one is child hometown police station and another is to child nearest police station.

Keywords: finger print sensor, child profile details, child nearest police station, child hometown police station

I. INTRODUCTION
To create a mobile application for rescuing missed children. For rescuing missed children, we will use personal details like address, phone number, mother name, father name and child name. These personal details very helpful to rescue child and to make child to reach home safe.

II. LITERATURE SURVEY
1. According to the national center for missing and exploited children, roughly 800,000 children are reported missing each year in the united states—that’s roughly 2,000 per day. In India an estimated 96,000 children go missing each year.
2. The NCMEC (National Center for Missing & Exploited Children) says that 203,000 children are kidnapped each year and nearly 800,000 children are reported missing each year. That’s more than 2,000 per year.
5. arm7 microcontroller, GSM, GPS and android mobile phone.
7. When the child cries, voice playback circuit is trigged by ARM7 microcontroller and intimation about corresponding child is given through text message to their parents.

III. HARDWARE SYSTEM DESIGN
A. ARM Processor
The LPC2141/2/4/6/8 microcontrollers are based on a 32/16 bit ARM7TDMI-S CPU with real-time emulation and embedded trace support, that combines the microcontroller with embedded high speed flash memory ranging from 32 kB to 512 kB. 128-bit wide memory interface and unique accelerator architecture enable 32-bit code execution at the maximum clock rate. For critical code size applications, the alternative 16-bit Thumb mode reduces code by more than 30% with minimal performance penalty. Due to their tiny size and low power consumption, LPC2141/2/4/6/8 are ideal for applications. The ARM7TDMI-S offers high performance and very low power consumption. The ARM architecture is based on Reduced Instruction Set Computer (RISC) principles, and the instruction set and related decode mechanism are much simpler than those of micro programmed Complex Instruction Set Computers.

B. GSM Modem
Global system for mobile communication (GSM) is a globally accepted standard for digital cellular communication. A GSM modem is a wireless modem that works with a GSM wireless network. The Techniques GSM SMS is handled main role in this system. GSM SMS messaging can handle large number of transaction in a very short time. This one GSM connection is enough to handle hundreds of transaction.
GPS is a multiple-satellite based radio positioning system which each GPS satellite transmits data that allows to precisely measure the distance from the selected satellite. The Global Positioning System (GPS) is a space-based satellite navigation system that provides location and time information in all weather conditions, anywhere on or near the earth.

The voice chip has the following features: 1) Single chip, high quality voice recording and playback solution. 2) User friendly, easy to use operation. 3) Non-volatile flash memory technology, no battery backup is required. 4) Can record voice with the help of on-board microphone or via any audio input.

SOFTWARE SYSTEM DESIGN

A. Embedded C
Embedded C is High-level language programming has long been in use for embedded-systems development. Embedded C is not part of the C language as such. Rather, it is a C language extension that is the subject of a technical report by the ISO working group named "Extensions for the Programming Language C to Support Embedded Processors".

B. Keil C
Keil software is the leading vendor for 8/16-bit development tools. The keil C51 compiler is the de facto industry standard and supports more than 500 current 8051 device variants. Now, keil software offers development tools for ARM.
IV. ARECHTEURE:

After parent register details like home address, father phone number, mother number, father email id, mother email id and child finger print in app. These mandatory details will store in database. When helper places finger print on fingerprint sensor then data will be retrieving from data base.

Then troughs sage API alert message will be sent to the parents of child location and also helper details, data about children and parents details will be sent to the nearest police station and child hometown.

IMPLEMENTATION:

Once we found any child is missing in any crowded areas like tourist places. Child rescue system application will helps to reach home, we will use child’s fingerprint by placing child finger on biometric sensor.

Then immediately child parents will get notification of child area and profile details of helper (who is helping to child to get child parent details from child fingerprint), then this profile details, parent details and child details will be sent immediately two police stations, one is child hometown and police station and another is to child nearest police station.

The main objective of this application was to rescue the child who are under-age of 8. The children who is under-age 8 They can’t remember home address, parent phone number and mail-id. So that they can’t reach their parents when they missed them. Child rescue system helps the children to reach their parents. And also this application will help for policies to track missed children with more efficient manner. Once we got permission from users to use their personal details like name, child name, phone number, address then we can get child location from current location by gps, then immediately this details will send to child nearest location police station and child hometown police station. With this valuable information it is to rescue the missed children.

V. CONCLUSION

In this child rescue system we are finding child's parents details easily with more efficient manner. In this child rescue system we are developing android application to find the child's parents details easily by registering parents details like phone number, email-id, home address. This will be very useful for parents and police to reach missed children with effective manner. It will save lot of time for police to track the missed children.

VI. REFERENCES

