Android Based Application on “Missing Person Finder”
Rahul Mote¹ Pooja Rakate² Dipali Thavare³ Rahul Patil⁴ Mrs. Sonali Pakhmode⁵

¹,²,³,⁴,⁵Department of Information Technology
Mumbai University, Padmabhushan Vasantdada Patil Pratishthan’s College of Engineering
Sion, Chunabhatti, Mumbai – 400022

Abstract— In this paper we propose an Android application for finding missing person. This is an android application for Free Dedicated to Missing Peoples. This android application will be used by Jeevan Vikas Charitable Trust for the purpose of finding missing person. This application contains functionality to add complaint as well as view all complaints. By using these complaints, Trust members will try to find lost person in various areas. This application will upload complaint on web server which can be accessed by any of the trust member having this application.

Key words: Missing Person data, Android Application, Server, Database

I. INTRODUCTION

One of the greatest fear of person is to lost their relatives. Each year approximately 100000 peoples gets lost in India. In some cases lost person gets found easily, but in some critical cases missing persons are never reunited with their relatives. Finding lost person can be difficult task.[1] The currently available Manual System for finding missing person have very long procedure and takes more time. More time is required to launching an FIR (First Information Report) in police station. Also time required for finding lost person is more. Also during manual process number of manpower for searching lost person is less. And in some missing person related website they required FIR No for upload complaint on their website.[9]

The web-database is a system where the web server will store the data in table format where the data are filled in column and other parameters. There are n-numbers of database available in the market but for this system we have used MySQL since it’s an open source relational database management system. It also widely used by web application developers, together with PHP and APACHE. MySQL is a three layer model they are Application layer, Logical layer and Physical layer.[3]

To make task of finding missing person easy we developed an android application. This application will be used by trust members through whom they can find lost person within minimum time period. This application will help trust member to find their missing person. Relative of lost person will go to trust rather than going in police station to launch complaint. Trust user will add their complaint in our Android Application. This information will be stored on server which can be accessed by all trust members so that they can find lost children in specific region.

II. PROBLEM STATEMENT

Manual System for finding missing person have very long procedure and takes more time. More time is required for launching an FIR (First Information Report) in police station. Also time required for finding lost person is more. Also during manual process number of manpower for searching lost person is less. Some existing application does not show the proper information about the Missing person, which is difficult to find out missing person [9]. Some missing person related website only shows the database of missing person. In some amusement parks and other public venues, they have used RFID chip for searching Missing Children. [2]

To overcome from this, there exist some android applications has been developed. But these applications has certain limitations as

Problems in Existing Android Applications:
- Pervious application only contains link which redirect to their website.
- User can not add complaint.[7]
- It displays advertisements collected from newspapers.[8]

III. PROPOSED STATEMENT

To overcome from these drawbacks we are developing Proposed System as “Finding Missing Person(FMP)”. This application is basically designed to perform all the tasks that previous system can perform all functionalities that are provided by existing applications as well as it gives additional feature to user. It will be for all android devices which support at least Android 2.1 Platform. We got idea about how interface should be for adding new complaint (How add complaint form user) from this android application.

Proposed System will contain following features:
- Display Information about missing person.
- Adding new complaint.
- Removing Complaints.
- Searching person by particular attribute such as name, location etc.
- Notification Portal.

A. Block Diagram/ Architecture:

1) Presentation Layer:
It is front end component, which is responsible for providing portable presentation logic. Mobile phone will act as thin client. Phone will contain Application. User will interact with application to add complaint and send this data to web service. [6]

https://www.server.com/...
2) **Business Layer (Web Service):**
The business layer function (web service) between presentation layer and Database layer sending the client’s request to database. Web service will be responsible to fetch data from client, process it and then store it in database. Web service act as middleware for Application and Database. In our project used JSON web service for connectivity. [5][11]

3) **Database Layer:**
Database is responsible for storing all information in well-defined format. Also it responds to the queries fired by client to add, update, remove or search records. In Our project we have used PHP, MYSQL database for storing Information.[3]

B. **Advantages of Proposed System over Existing System:**
- Easy to upload and view Complaint.
- All trust users can add complaint.
- Simple GUI.
- Easy to view information

C. **Disadvantages of Proposed System:**
- Require Internet connection.
- Require android phone with camera.

IV. **TECHNOLOGIES LANGUAGE AND SOFTWARE / HARDWARE RELATED TO PROPOSED SYSTEM**

A. **Hardware Requirement:**
- Processor : Intel 1.66GHz Processor Pentium 4
- RAM : 256MB
- Hard disk : 80GB
- Device : GPRS enabled Mobile Phone with Android OS

B. **Software Requirement:**
1) **Eclipse or Android Studio:**
Eclipse is an integrated development environment (IDE). It contains a base workspace and an extensible plug-in system for customizing the environment. Written mostly in Java, Eclipse can be used to develop applications. It can also be used to develop packages for the software Mathematica. Development environments include the Eclipse Java development tools (JDT) for Java and Scala, Eclipse CDT for C/C++ and Eclipse PDT for PHP, among others. The Eclipse software development kit (SDK), which includes the Java development tools, is meant for Java developers. Users can extend its abilities by installing plug-ins written for the Eclipse Platform, such as development toolkits for other programming languages, and can write and contribute their own plug-in modules.

2) **SDK for Android API 8 & Higher:**
A software development kit (SDK) is typically a set of software development tools that allows the creation of applications for a certain software package, software, framework, hardware platform, computer system, video game console, operating system, or similar development platform.

The implementation of one or more application programming interfaces (APIs) in the form of some libraries to interface to a particular programming language or to include sophisticated hardware that can communicate with a particular embedded system.

3) **JDK:**
The Java Development Kit (JDK) is an implementation of either one of the Java SE, Java EE or Java ME platforms released by Oracle Corporation in the form of a binary product aimed at Java developers on Solaris, Linux, Mac OS X or Windows. The JDK includes a private JVM and a few other resources to finish the recipe to a Java Application. Since the introduction of the Java platform, it has been by far the most widely used Software Development Kit.

4) **PHP:**
PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. It stands for PHP: Hypertext Preprocessor. PHP code can be simply mixed with HTML code, or it can be used in combination with various engines and web frameworks. PHP code is usually processed by a PHP interpreter, which is usually implemented as a web server’s native module.[4]

5) **XAMPP Server with APACHE and MYSQL:**
XAMPP is a free and open source cross-platform web server solution stack package, consisting mainly of the Apache HTTP Server, MySQL database and interpreters for scripts written in the PHP and Perl programming languages.

The Apache HTTP Server, is also called Apache is the world's most widely used web server software. These can range from server-side programming language support to authentication schemes. Some common language interfaces support Perl, Python, Tcl, and PHP. MySQL is the world's second most widely used relational database management system (RDBMS) and most widely used open-source RDBMS. And also used in store data in Database.[3]

6) **Android Language:**
Android software development is the process by which new applications are created for the Android operating system. Applications are usually developed in Java programming language using the Android Software Development Kit (SDK), but other development environments are also available.

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.[10]
C. Work Flow Chart for User:

![Work Flow Chart for User](image)

Fig. 2: Work Flow Chart for User:

V. FUTURE SCOPE

The future work on which we are focusing now is to implement and measure the performance of our proposed system so that we can justify that our proposed system is better in Finding Missing Person than all the previous proposed system.

Also we are going to add following features in future to improve functionality of our system.

- Automatically periodic report generation.
- Automatic Data Backup.

VI. ACKNOWLEDGEMENT

We wish to express my profound thanks to Information Technology Department, P.V.P.P. Engineering College, Sion, Mumbai-22 and Faculty members for providing me all the facilities in making this project possible. I would also like to thank “Jeevan Vikas Charitable Trust” for setting the environment for me to work timelessly.

VII. REFERENCES


[2] Xiaodong Lin, Rongxing Lu,”REACT: “An RFID-Based privacy preserving children tracking scheme for large amusement parks”: Received: 15 December 2009 Received in revised from 22 April 2010 Article pressed in Computer Network


[7] MCIA missing person Alert Android Application On Google play


