A Survey on Android Based Application on- Missing Person Finder

Birari Hetal[1]
Dept. of Computer
Late G.N.Sapkal College of Engineering
Maharashtra, India

Porje Rohan[2]
Dept. of Computer
Late G.N.Sapkal College of Engineering
Maharashtra, India

Sanyashiv Rakesh[3]
Dept. of Computer
Late G.N.Sapkal College of Engineering
Maharashtra, India

Salve Harish[4]
Dept. of Computer
Late G.N.Sapkal College of Engineering
Maharashtra, India

Abstract: *Now-a- days finding the missing person is very difficult task to find out by people or police department, lots of documentation and hard work is there also it takes the lot of time duration as well as there is no guaranty of appropriate result. 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. This project Finding Missing Person using Face Detection on Android Application presents the solution for this problem. We are using four modules User, Police, Compliant holder, Admin for getting appropriate result. Admin continuously Update database and Delete unnecessary data*

Keywords-: *Android Application, Face Detection, Layer*

I. INTRODUCTION

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 project Finding Missing Person using Face Detection on Android Application presents the solution for this problem, its a scheme that is use on android mobile for capturing images and upload that into application, getting result on basis of face detection. We are using SWF-SIFT algorithm for comparing two images, the system ensure that 70- 80 per result on basis of compared images. We are using four modules User, Police, Compliant holder, Admin for getting appropriate result. Admin continuously Update database and Delete unnecessary data. The proposed system helps to find out particular person in minimum time less and hard-work.

II. LITERATURE SURVEY

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 require 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. 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

International Journal of Science Technology Management and Research
Volume 2, Issue 12, December 2017
www.ijstmr.com

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]

III. PROBLEM STATEMENT

Manual System for finding missing person have very long procedure and takes more time. More time is require 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]

IV. 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.
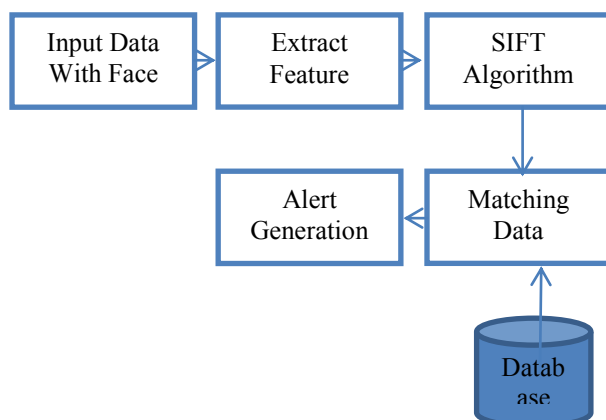

Fig. 1: Architecture of Proposed system

International Journal of Science Technology Management and Research
Volume 2, Issue 12, December 2017
www.ijstmr.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 responses 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]
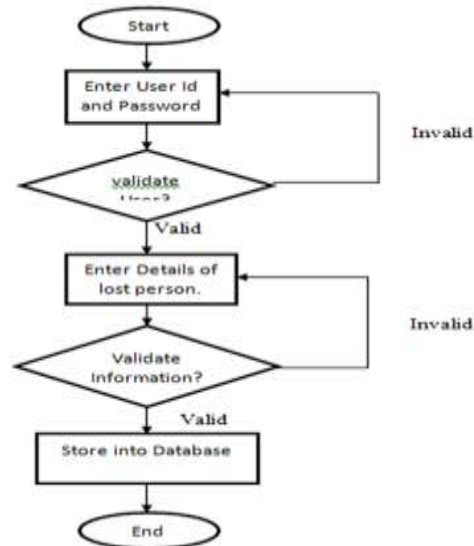
➢ *Work Flow Chart for User:*

Fig. 2: Work Flow Chart for User

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

Disadvantages of Proposed System:

Require Internet connection.

Require android phone with camera.

IV. 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

2) SDK for Android API 8 & Higher

3) JDK:

4) XAMPP Server with APACHE and MYSQL

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 and Automatic Data Backup.

CONCLUSION

An effort is made towards recognition of face and the obtained recognition accuracy is much. This method will be very beneficial for finding missing person. This application will upload complaint on web server which can be accessed by any of the trust member having this application. This project Finding Missing Person using Face Detection on Android Application presents the solution for this problem. We are using four modules User, Police, Compliant holder, Admin for getting appropriate result. Admin continuously Update database and Delete unnecessary data.

REFERENCE

1. Lowe D G. Object recognition from local scale-invariant features. In: Proc. of the International Conference on Computer Vision. Corfu, Greece, 1999

2. Ke Y, Sukthankar R. PCA-SIFT: A more distinctive representation for local image descriptors. In:Proc. of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition.Washington DC, USA, 2004.

3. Kisku D R, Tistarelli M, Sing J K, et al. Face recognition by fusion of local and global matching scores using DS theory: An evaluation with uni-classifier and multi-classifier paradigm. In: Proc. of IEEE Computer Vision and Pattern Recognition (CVPR) Workshop on Biometrics. Miami, USA,2009.

4.Lowe D G. Distinctive image features from scale invariant keypoints. International Journal of Computer Vision, 2004

5. Fredlund. Benac Earle. Marino, J. Property-Based testing of JSON BasedWeb Service: Web service (ICWS) 2014 IEEE Inernational Conference

6. Mumtaz AL Mukhtar, Sharmad Hadi Developing a Three Tier web data Management Application for Higher Admission Environment-International Arab Journal ofe-Technology,Vol.2,No.4,june 2012

7. MCIA missing person Alert Android Application On Google play

8. Missing Child Android Application

9. http://missingperson.ap.nic.in/

10. http://developer.android.com/

11. https://wiki.servicenow.com/index.php?title=JS

.