Problem Reporting to Authorities

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ABSTRACT

In today's world, the use of mobile communication devices, such as smart phones and cellular phones. In field collecting the data is increasing due to the emergence purpose.

Accurate, timely and handy field data collection is required for quick response during emergencies. In this paper, we introduce a web based mobile (android) application to collect different field of data from personal mobile phones.

In the Problem Reporting to the Respective Authorities system which create android app which contains various departments such as Crime Department, Health Department, solid waste management, etc.

In case of crime system, if any crime is happen at somewhere then user has to capture only the photo where the crime is happen then this picture automatically send to the police station server then server police station has given the reply to the user who send the captured photo.

In case of doctor situation, if any patient is emergency, then at the time user has to type the message to the doctor that the patient is emergency. This message is directly go the hospital server then at the same time doctor has to be given the reply to the user that doctor is available or not.

Same happen in case of solid waste management, in this for example if there is a big garbage at some where then user has to click to the photo of that garbage and send it to the solid waste management department.

Keywords
Android mobile phone, Crime Detection, Crime Reporting, online appointment, doctor-patient interaction .

1. INTRODUCTION
In 21st century where mobile and information Technology has become an integral part of our lives. A new area where mobile integrated with technology is useful for May application. In this paper we present the idea for creating android app for many different areas which is useful in today's life.

In the Problem Reporting to the Respective Authorities system which contains various departments such as Crime Department, Health Department, solid waste management ,etc.
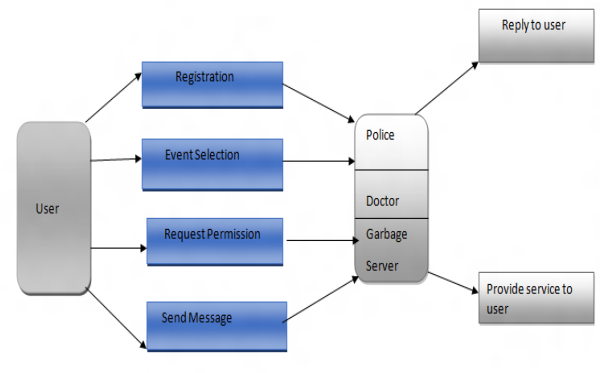

Figure 1: Overall Architecture of system.

In the existing system, where if any crime is happen at somewhere at the same time someone goes to the police station and register the complaint then they replies that they will come as earlier. it requires some to time go there and then register complaint and then police tell them that they will go there after some time. Now a days, this is happen with people.

In the another situation, If an abmulance is stuck in traffic then user is going to click picture of the ambulance & send it to the traffic control unit. The pictue is send with a small message regarding the ambulance & its location is automatically attached with image. then traffic control unit immediately response to the nearest police check point to take actions and let ambulance pass from the traffic.

In case of solid waste management, anywhere the wastage which is thrown by the people which is dangerous for the people health. Every time it is not possible to the people to report to the solid waste department due to this the environment gets polluted due to this health problem may be arise.

So people do not have any central platform where they can report all their issues. So government do not understand the exact problem and their location. & This data not available to corresponding department

To avoid this type of system we are going to develop a problem reporting to respective authorities. In this type of system, the problem which is reported to the respective authorities. In case of crime system, if any crime is happen at somewhere then user has to capture only the photo where the crime is happen then this picture automatically send to the police station server then server police station has given the reply to the user who send the captured photo. This is happening in case of police system.

In case of Emergency traffic patient situation, If an abmulance is stuck in traffic then user is going to click picture of the ambulance & send it to the traffic control unit.

The pictue is send with a small message regarding the ambulance & its location is automatically attached with image.

then traffic control unit immediately response to the nearest police check point to take actions and let ambulance pass from the traffic.

Same happen in case of solid waste management, in this for example if there is big garbage at some where then user has to click to the photo of that garbage and send it to the solid waste management department. The department has to give the reply to the user that they will collect garbage as per their management.

Algorithm

WifiManager wifimanager=(WifiManager)getSystemServices

(Context.WIFI_SERVICE);

StringMACID=wifimanager.getConnectionInfo().getMACAddress();

User Registration with Device MAC ID and POST this MAC ID to Server as well as Store it in MySQL Db.

Choose Events Depends on Situation.

Encode image into String.

i.e.ByteArrayOutputStream baos=new ByteArrayOutputStream();

image.compress(Bitmap.CompressFormat.jpeg,100,baos);

 String encode=Base64.encodeToString

(baos.toByteArray,Base64.DEFAULT);

POST base64, name,MAC ID to Server.

Server Decode this image.

i.e. $decode=Base64_decode('base64');

Store this decode image to Server.

Server can send acknowledgement to the user.

2. RELATED WORK

This paper includes several pieces of key Literature in the area of android application of different areas. It consists of three different modules:

1) Emergency traffic patient

2) Crime report.

3) Solid waste management's.

- **Emergency Traffic Patient:**
 If an abmulance is stuck in traffic then user is going to click picture of the ambulance & send it to the traffic control unit.

The pictue is send with a small message regarding the ambulance & its location is automatically attached with image.

then traffic control unit immediately response to the nearest police check point to take actions and let ambulance pass from the traffic.

- **Crime Report**
The purpose of this paper is to develop an android Application for crime area detection and store criminal records. It provides an application for the user that would

It allows user to report incidents and get it verified by the police officials. It will consist of an application for police

officials which can perform database operations on criminal record and allows efficient retrieval of required information from the centralized database .The application targets general public and police officials for managing the incidents and crime without consuming much time.

- **Solid waste Management**
Same happen in case of solid waste management, in this for example if there is big garbage at some where then user has to click to the photo of that garbage and send it to the solid waste management department. The department has to give the reply to the user that they will collect garbage as per their management..

3. EQUATION

POST=MAC ID(48bit)+Base64(64bit)+Image Name(Bitmap) Image Convert

Base64=Image*Bitmap*Pixels;

Int target W=ImageView.getWidth();

Int target H=ImageView.getHeight();

Int Photo W=bm.OutWidth();

Int Photo H=bm.OutHeight();

Int Scale factor=Math.min(PhotoW/target, PhotoH/targetH);

Post is the method that is used to send the parameters to the server

We should have to post the three parameters to the server i.e MAC ID,base64 and image name

If any image has been captured at that time system defines the by default height and width as well as When we are going to send image at that time we should have to compress the image and send it to server

When we sending the image to server it is in the string format.

4. FUTURE SCOPE

The future scope of this project is that we can extend this project up to the department level likewise water resource department, electrical department and other various departments which is being useful in future.

5. FUTURE WORK

These proposed systems can be enhanced further. In future scope of this project is that we can extend this project up to the department level likewise water resource department, electrical department and other various departments which is being useful in future, sound pollution etc.

6. CONCLUSION

This project we create real –time pollution monitoring system application which helps to people to co-operate with management system

7. ACKNOWLEDGMENTS

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