

Problem Reporting To Respective Authorities

#1 Akshay Mali, #2 Govind Sukane, #3 Dnyaneshwar Parsewar
#4 Prof. Pavan Kumar

¹maliakshayp2p@gmail.com

²govind.sukane@gmail.com

³mparsewar@gmail.com



#123 Department of Computer Engineering

#4 Assistant Professor, Department of Computer Engineering

G.H. Raison College of Engineering and Management, Pune

ABSTRACT

The use of mobile devices, such as smart phones and cellular phones, in field data collection is increasing today because of the emergence of embedded Global Position Systems (GPS) and Wi-Fi Internet access. The people encounter many hazardous objects in daily life but because of lack of any central platform they are not able to report it to concerned authority. We are developing a central platform where normal people can submit their issues to respective authorities. The user needs to capture real time images, videos or audios of hazardous objects, select the concerned authorities and risk level and sync it to the server with their GPS location. The data captured from android will be shown on Google Maps using Google Maps API v3. This data will be available to corresponding departments of government. Government officers can do survey of area based on different criteria for example area where many cases are reported but not solved. So this will be one central platform where all hazard issues will be reported with their location to respective departments and government will understand exact problem and their location.

Index Terms- Smart phones, GPS, Google Map API v3, Hazardous object.

ARTICLE INFO

Article History

Received : 16th April 2016

Received in revised form :

19th April 2016

Accepted : 21st April 2016

Published online :

25th April 2016

I. INTRODUCTION

Nowadays Smartphone's become exploring for personal or business use. There will be an estimated 1.368 Billion smartphones shipped globally 2015, growing 13.6% on year, according to Digitimes Research. This number has increased 20% over the last year. The system which will accept real-time of hazardous object with their location from the user location and sync it with the server. The data captured from android will be shown on Google Maps using Google Maps API v3. This data will be available to corresponding departments of agencies.

II. RELATED WORK

In researching an online crime reporting system this writer discovered it is a product whose mission parallels the same philosophy as the police department's values and mission statement. These systems aim to offer high levels of customer service to encourage more community participation in self-reporting crimes. In return the police

department receives a more accurate snapshot of exactly how many and what type of crimes are occurring in which districts. Equipped with accurate information and more often detailed data such as: time frames, specific days of the week the crimes have occurred on, the police department can analyze this data to narrow down when the crimes are most likely to occur. Armed with this valuable information undercover officers hit the streets to conduct surveillance operations during those data driven time frames

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

- 1) Emergency.
- 2) Crime report.
- 3) Solid waste management
- 4) Education
- 5) Child labour

6)Consumer

1. Emergency:

If an ambulance is stuck in traffic then user is going to click picture of the ambulance & send it to the traffic control unit.

The picture is sent 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.

2. 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 allow 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.

III. PROPOSED SYSTEM

In Proposed system, we are trying to develop one central platform where all issues can be reported with their location to respective departments. This System will maintain all the records which are required to solve the problem for e.g. User details like name, mobile no, address, Mobile MACID, Problem reported location, images captured by reporter etc. This will help government faculty members to solve the problem as early as possible, all this data will be available to corresponding departments. The respective faculty will take action or respond to the user. Also in this system user can track on complaint until it resolve.

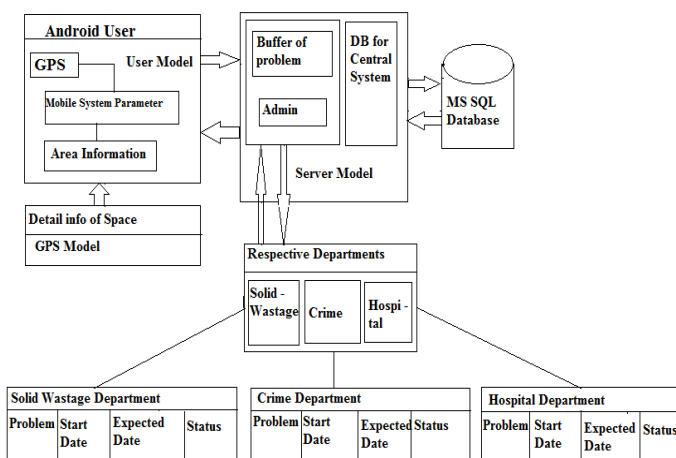


Fig. Architecture Diagram

ADVANTAGES

1. Register complaint at anywhere at any time.

2. No need to go at respective department every time
3. User Friendly.
4. Central platform to report issues – Saves time.
5. To mark the area with more number of issues.

DISADVANTAGES

1. Internet connectivity is compulsory to transmit the data.
2. Android phone is required.
3. Application is only limited for android platform
4. It is only for smart city

IV. IMPLEMENTATION

Algorithm

1. Start
2. Fill the Registration
3. Welcome to Crime Cracker
4. If Checks the status it captures the photo, if not then it directly EXITS.
5. Image is in Base 64 format it is Encoded to String
6. Send to the Server.
7. Again String is Decoded to the Image in Base 64 format
8. Server replies to User immediately

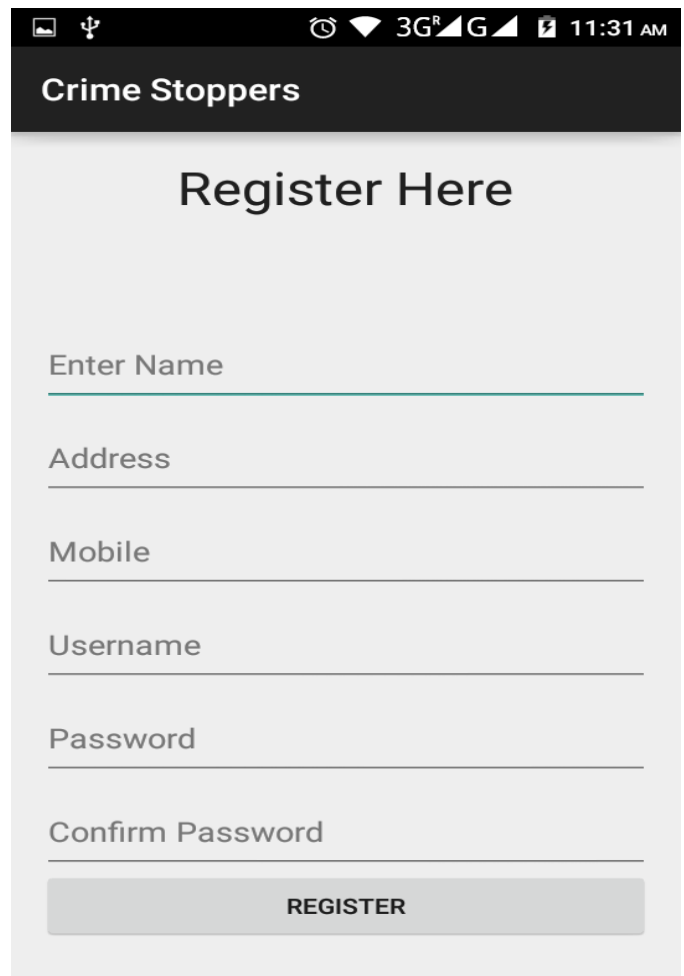


Fig: End User Registration Android



Fig: End User Interface Android Application

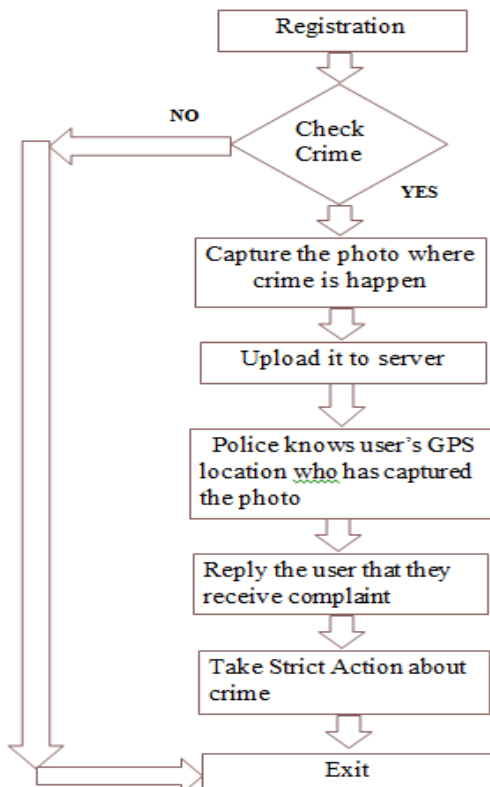


Fig: Data Flow Diagram

V. ALGORITHM

Customized based HTTP algorithm

```
WifiManagerwifimanager=(WifiManager)getSystemService
s
(Context.WIFI_SERVICE);
```

```
StringMACID=wifimanager.getConnectionInfo().getMACAd
dress();
```

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.ByteArrayOutputStreambaos=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

VI.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.

VII. 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.

VIII. CONCLUSION

we implement a framework for classifying Android applications using machine-learning techniques whether they are malware or normal applications. To generate the models, we have extracted several permission features from several downloaded applications from android markets.

ACKNOWLEDGMENT

We would like to thank our guide and various technological experts who researches about problem reporting to respective authorities and improve the result by implementing new methods. We would also like to thank Google for providing details on different issues on problem reporting and about other related techniques.

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