

Online FIR Management System

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Abstract: India is a developing country now days. So there are many new technologies are introduced in our lives for our luxurious life. The technologies are used in educational sector, Banking sector, Business sector, etc. Our country having more population as compare to other countries. So that public security is most important part of security system of our country. Indian police system is made for public security by the Indian government. If we used our technologies in Indian police system then this is very useful for society. FIR is a First Investigation Report. If we are in any trouble then we can lodge a complaint. FIR is first step, after FIR police can start the investigation. In previous days this system was offline. Person has to go to police station to lodge a complaint against someone else. There is a problem if there is no police station in nearby area. So this is very time consuming process. To solve this problem we developed online system for registering the complaint of user or victim. FIR can be register by the victim or by any relatives of the victim.

1) Introduction

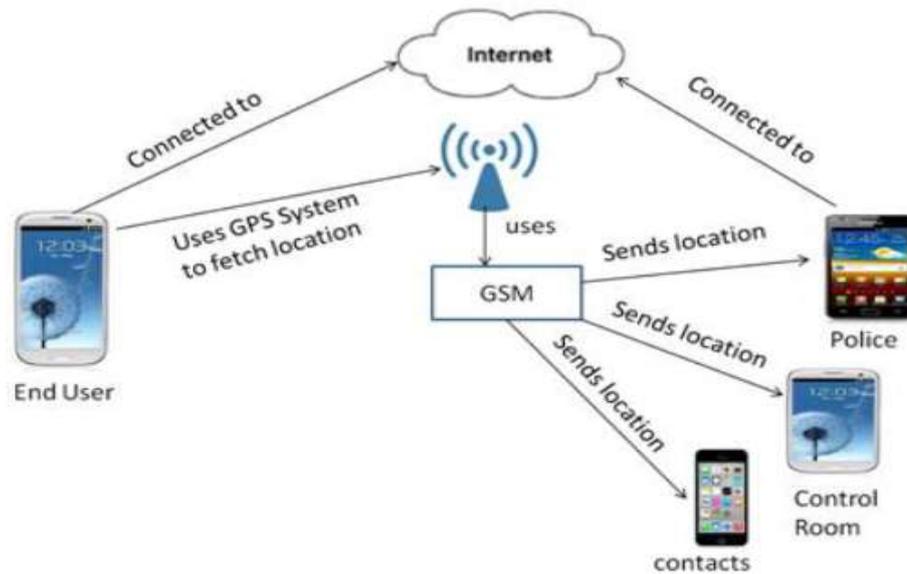
We developed this system by seeing the some live problems of people, woman and in small kids in our society. To give justification to the people at the right time is main aim of our system. Current scenario is that if we are in any trouble then we have to go police station to register our complaint. This is physical and time consuming process. Because if there is no nearby police station then it is time consuming and energy wasting. If the complaint is against any reputed person then there may be some violent situation also created. So by observing all these problems we developed Online FIR Management System for public security. Our system is online system, all the drawbacks of manual process are overcome in it. There are many complaints lodge in a day from the public. So to handle all these complaints is very difficult to police department. By using online application we can maintain a database of users or victim. We can categorize, organise the data which will be received from people. So there is no time consumed. For registering the FIR users have to use our android application. If user is new user then he has to first login into the application otherwise he cannot register FIR directly. After registration process by click of only one touch our information is send to the nearby police station. After receiving the details from users police can start the investigation and lodge a complaint of victim. So this very less time consuming process. In feedback police sends the status of our complaint and give us FIR number. So there is no need to physically go to police station may times to check status of our complaint.

1) Literature survey

Sr.no.	Project Name	Author Name	Technology used	limitation
1	E-Police System for Improved E-Government Services of Developing Countries	Muhammad Baqer Mollah, Kazi Reazul Islam, Sikder Sunbeam Islam	INTERNET	INFORMATION LOSS, SPAM, VIRUS ATTACKS, VIRTUAL WORLD
2	E-Police System- FIR Registration and Tracking through Android Application	Archana Iyer, PrachiKathalSagarGathoo, Nikhil Surpam	Bluetooth	Low range

2) System Architecture

The following diagram represents the architecture of the proposed system. The main three components needed to run this application are Internet on the client phone, GPS to track the location of the police and GSM which enables to send data through messaging system.



3) Modules of System

A) Registration module

In this module, first of all User will register with proper data (where username and E-mail id must be unique for everyone). All the personal details of user contain into the registration form. For Eg.-. Name, Address, mobile number, age, Pin code, gender etc. must be include in the registration form. Once User can registered than he/she can login in this system and register their FIR.

B) Location tracking module

In the location tracking module we track the location of user by using GPS(Global Positioning System). we can track the location of the user Input to the location tracking module is location of the user and output of this module is Google map So by using Google map we can find the latitude and longitude of the location.

C) Sending details module

In this module, we can send all information of the victim/user to the police station. The user information is like name, gender, age, address, place, pin code, mobile number, the location and all other data of user. By using GSM(Global System for Mobile communication) we can send all above information to the server side.

D) FIR Registered module

In this module we can take all the information of the user from the server's database. The user information is like name, gender, age, address, place, pin code, mobile number, the location and all other data of user. After receiving all information we give the feedback such as FIR is successfully registered and also give the FIR number to the user on his mobile.

5) Technology Used

A) GSM Modem:

Global System of mobile Communication (GSM) to standardize cellular communication throughout Europe. It is a open source system which allows access to code, operate based on the standards. GSM operates on the 900 MHz, 1800 MHz and 1900 MHz.

GSM modem can accept any GSM network operator SIM card and act as a mobile phone with its unique phone number. We can use it's RS232 port for communicate and developing embedded applications like SMS control, data transfer, remote control and logging can be developed easily.

B) GPS

Global Positioning System(GPS) are extremely versatile and can be found in almost any industry sector. GPS is a satellite navigation system used to determine the ground position of an object. For a GPS device to work correctly, it must first establish a connection to the required a number of satellites. This process can take anywhere from a few seconds to a few minutes, depending on the strength of the receiver.

GPS is generally categorized in 5 sections:

Location is used for determining a positions.

Navigation is used for getting from one location to another location.

Tracking is used for monitoring object or personal movement.

Mapping is used for creating maps of world.

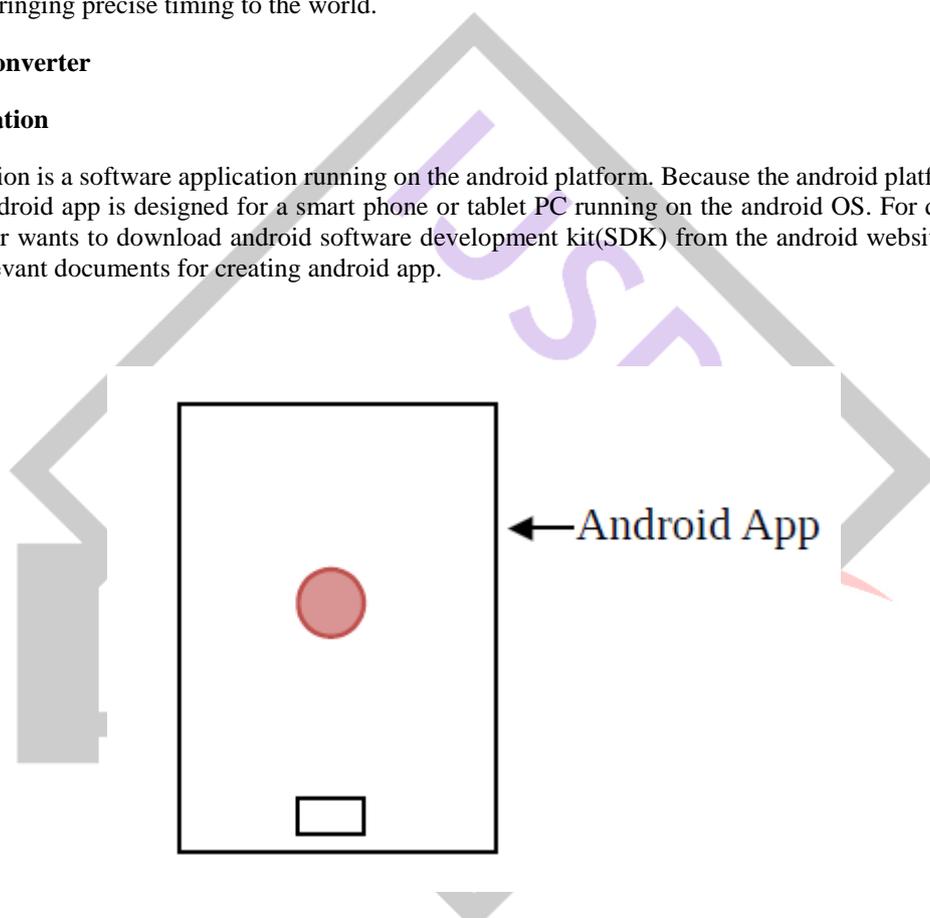
Timing is used for bringing precise timing to the world.

C) Serial to USB Converter

D) Android Application

An Android application is a software application running on the android platform. Because the android platform is built for mobile devices, a typical android app is designed for a smart phone or tablet PC running on the android OS. For developing the android application developer wants to download android software development kit(SDK) from the android website which include tools, sample code and relevant documents for creating android app.

6. Implementation



We developed android application which will contain login, registration form. One touch button is provided for registering FIR.

7) Acknowledgement

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8) Conclusion

Using this android application user can be register FIR within one click of button. This system gives the FIR number to the user which cannot be given by in the previous system. This system consume less time, because there is no need to go police station personally and registered FIR.

References

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