International Journal of Scientific Research in Science and Technology
Print ISSN: 2395-6011 | Online ISSN: 2395-602X (www.ijsrst.com)
doi : https://doi.org/10.32628/IJSRST

Virtual Police Station

Pavankumar Kahaladkar, Shoaib Sayyad, Mukesh Kamble, Sanjivani Joshi
Department of Computer Engineering, ZCOER Pune, Maharashtra, India

Article Info
Volume 9, Issue 2
Page Number : 500-502

Publication Issue
March-April-2022

Article History
Accepted : 03 April 2022
Published : 20 April 2022

ABSTRACT

In Today's era, it is difficult to imagine life without the internet, as most of the systems are now working over the internet but now also the police are using 'Pen and Paper' for filing a case and for various other work.

But with the time population is increasing the workforce is not sufficient for this large population. And with the time type is as new technology is coming this old method of police is not compatible to use.

In this paper, we have discussed an internet-based Web Application (Prototype Level) that will help in filling an online complaint using this web portal and get various permission from the police department. This will help to reduce crime and to establish a good relationship between citizens and police authority.

Index Terms—Online FIR, Virtual Police station, Crime, Investigation.

I. INTRODUCTION

According to legal analyses, many public does not visit police station due to their difficulty in registration or filing complaints. One of the biggest reasons is that all the process is manual and time-consuming as they have to visit the police station many times. And in some cases, people don't know the process which is also not money friendly or fear of people that they might be harmed by police or the person on whom the FIR is filed. By making a system in which people can directly complain. As an old or manual process is paper-based which is easily manipulated or tempered.

The Ministry of Home Affairs takes different steps to make a good relationship between police and citizens. As the world is moving toward the internet, the ministry is also trying to bring various police facilities to use the internet under the national E-governance Plan (NeGP) of the Government of India.

This project is a Web Application that helps in reporting and managing an online system to lodge a complaint or to get different police-related services (like complaint approvals, FIR filing, License approvals, and various other forms), which will help in easy and simple structure for citizens to get different police services easily and in a short time.

II. MODULES

The System consists of three interfaces Citizen, Police Officer, and Administrator(senior officers). The first one is a public interface in which a new user has to create an account and file a complaint which will be verified by the police. The second interface is police in which a police officer can log in using his credentials and after login, he can check the cases to

which he is assigned and update the daily case dairy. And the last interface is the Administrator a higher ranked officer who can add an officer as an in-charge to investigate the case or look into the case updates which has been done.

- If any citizen or user wants to file a complaint this is a good system where he/she can file a complaint through this portal where he/she has to register themselves first.
- Once the account of the user has been created he/she can log in and view the case updates
- Police officers who are in charge of the case can add all their investigation updates to the case diary.
- The updated case dairy is visible to both the victim and senior officer in which if the case in charge is inactive then the senior can assign the case to a new officer.

III. SYSTEM ARCHITECTURE

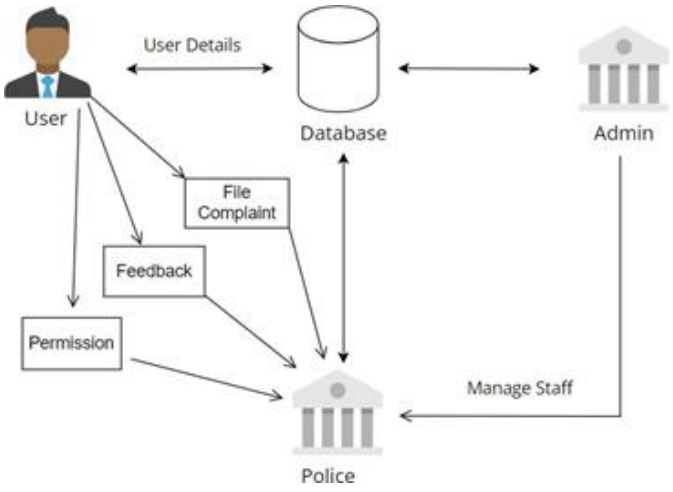

Fig. 1. System Architecture

This is an online web application for the public where users can register FIR without visiting the police station in online mode using this web application. First, a new user has to sign up using his credentials (name, DoB, email, mobile number, UID), it will create the account of that user and store its information in the database. Then the user has to login in using his ID and password provided. After login user can choose the option accordingly.

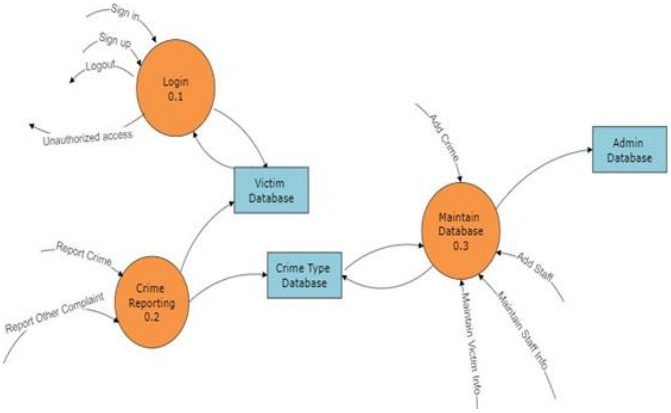

Fig. 2. Data flow for user

IV. TECHNOLOGY USED

A. Python

Python is a general-purpose high-level programming language created by Guido van Rossum in the late 1980s. The language places strong emphasis on code readability and simplicity, making it possible for programmers to develop applications rapidly. Like all high-level programming languages, Python code resembles the English language which computers are unable to understand. Codes that we write in Python have to be interpreted by a special program known as the Python interpreter, which we'll have to install before we can code, test and execute our Python programs. Python uses dynamic typing and a combination of reference counting and a cycle-detecting garbage collector for memory management. It uses dynamic name resolution (late binding), which binds method and variable names during program execution.

B. Django

Django is used to develop web applications in python which is lightweight and straightforward and helps in creating a quick web application. An important reason to select the Django framework are:

- The Django admin interface saves time: In Django everyone using web pages creates database tables to hold information, and then they must create an

administrative interface to manage those records. With only a few small classes, Django creates these administrative forms in a slick and easy-to-use interface. It even handles the authentication, so only administrators have access to them. This saves a lot of work.

- URL management is easy: Django allows you to handle how your URLs are formed at the application level and not the server level. This saves you from the headache of putting application logic into your apache conf file where is really doesn't belong. Nice URLs are also very SEO friendly.

C. MySQL

MySQL server is a open-source relational database manage- ment system which is a major support for web based appli- cations. Databases and related tables are the main component of many websites and applications as the data is stored and exchanged over the web. Even all social networking websites mainly Facebook, Twitter, and Google depends on MySQL data which are designed and optimized for such purpose. For all these reasons, MySQL server becomes the default choice for web applications. MySQL server is used for data operations like querying, sorting, filtering, grouping, modifying and joining the tables. Before learning the commonly used queries, let us look into some of the advantages of MySQL

V. FUTURE WORK

1) AI assistant in filing a complaint or to access any feature of Virtual Police station
2) UID based login.
3) SMS facility.
4) Fingerprint and face recognition.

VI. CONCLUSION

The online Complaint system is a Web Application that can be used for filling a complaint online without visiting the police station. It is helpful to government for keeping track of all the cases from that area. Here people/citizen can lodge FIR in simple and organized manner and get update on timely basis.

It can be used by the citizen for getting various permission from the police authority by simply log in and submitting an application for required permission. It will improve the transparency of the process and case which will lead to a good relationship between citizens and police authority.

Getting a justice for violating of the law and order is just a one touch away.

VII. REFERENCES

[1]. Design and Development of Criminal Law Case Information Management System 2018 International Conference on Intel- ligent Transportation, Big Data Smart City (ICITBS) link:- https://ieeexplore.ieee.org/document/8332807

[2]. Online FIR System links:- https://www.ijercse.com/viewabstract.php?id=14824volum e=Volume8issue=Issue8

[3]. Narayan .D , and Roberto .U , (2010).Web Application to Improve Police Management Performance. IEEE Xplore 10.1109/ITNG.2010.163 links:- https://ieeexplore.ieee.org/document/5501461?reload=truearnumber=5501461

[4]. Design and Development of Criminal Law Case Information Management System 2018 International Conference on Intel- ligent Transportation, Big Data Smart City (ICITBS) link:- https://ieeexplore.ieee.org/document/8332807

[5]. "Relevant Information Retrieval using SBIR algorithm," International Journal of General Science and Engineering Research (IJGSER), ISSN 2455-510X, Vol 4(2), 2018, 1-4.

[6]. E-Police System for Improved E-Government Services of Developing Countries