Design and Implementation of Online Crime/Complaint Management System for Public Safety

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***Abstract*:** Millions of crimes go unreported, according to national polls. This lack of reporting could be caused by a number of factors. Furthermore, crime reporting must be available 24 /7. The goal of the Online Crime Reporting System is to develop a web-based tool that allows users to report crimes online. It allows users to share videos or photographs of crime scenes to guarantee that authorities can respond quickly. The goal of the Online Road Complaints Registration System is to automate the present manual complaint management system. There are various alternative options, as well as the most widely reported reporting systems. Victims and witnesses of crime can report occurrences to police 24/7 from any location using internet-based crime reporting tools. For better complaint management and increased efficiency. This system collects complaints from citizens via the internet and assists the police department in finding criminals. Anyone can submit a complaint at any time.

Index Terms - Security, Dependability, Networked Systems, Crime-Protection, Conviction

I. INTRODUCTION

The Crime Reporting System will address not just the mentioned reasons for not reporting, but also the need for more accurate, full, and reusable information by police agencies, which will allow them to devote more time and resources to policing the streets [1].The Online Crime Report project is to supply all crime management solutions which are easily accessible to everyone. The Crime application starts with the folk who want to log a complaint through the web site so it are often very useful for local department to seek out the problem within the society without people are coming to the police headquarters whenever . The users as complainers can simply register the complaint with all the small print required and submit it. While the cops can log in and manage the complaints of all users. The officers are often a head, in-charge, or normal police. This project may be a very simple project that creates a convenient way for the victims to register the complaints fast and simply. They don't need to attend the police stations whenever for checking the updates of their case. The main purpose of this project is to assist the general public in knowing their place details and getting their problems solved in online without getting to the officer regularly until the problem is solved. By this application public can save much time and can reduce corruption in government offices. Its main aim is to provide a smart and easy way through web application for Crime/Complaint registration and its Tracking and eradicating system and thus to prevent Corruption. We have to develop an web application for crime management system where public can register complaints for rain water drainage, street light, road reconstruction, water pipe leakage, and garbage system.

II. LITERATURE SURVEY

A. *Software As A Service (SaaS):*

Software as a service (SaaS) [2], often known as "on-demand software" provided by independent software vendors (ISVs) or "Application Service Providers" (ASPs), is a software delivery paradigm in which software and associated data are centrally hosted on the MySQL database. Users usually access SaaS with a thin client and a web browser.

SaaS is becoming increasingly prevalent delivery model as underlying technologies that allow web service/services and service-oriented architecture (SOA) mature and new development methodologies, such as Ajax, become more popular, SaaS is becoming a more common delivery paradigm.

Software as a service [2] is essentially an extension of the ASP paradigm. However, the phrase Software as a Service (SaaS) is frequently used in more particular contexts:

- While most early ASPs focused on managing and hosting the software of third-party independent software suppliers, SaaS suppliers now develop and maintain their own software.
- Unlike many early ASPs, which offered more traditional client-server applications that required customers to instal software on their PCs, today's SaaS solutions are primarily Web-based and just require the usage of a web browser.
- Unlike most early ASPs, which required maintaining a distinct instance of the programme for each business, SaaS solutions now typically use a multi-tenant architecture, in which the application serves numerous businesses and users and splits its data accordingly.

B. *Benefits of the SaaS model include:*

Administration is made easier.

Patch management and automatic updates.

Compatibility: All users will be using the same software version.

Collaboration is easier for the same reason.

Accessibility all across the world.

Meanwhile, broadband service is becoming more widely available, allowing users to connect from more locations across the world.

III.SYSTEM IMPLEMENTATION

The purpose of this section is to provide an overview of the online crime reporting and management system's overall implementation. The major goal is to use an online crime reporting and management system to automate the entire system of crime reporting and analysis. The supplied model (figure-1) depicts the system's flow.

Fig 1 System Model

Each station must first create an account with the software. Each station fills out the registration form with information such as station name, address, phone number, station in charge, and receives a User Id from the software. The existing records can be accessed once the potential station registers with the software. Each citizen who want to file a complaint must first register with the Software. For the registration portion, each person enters their personal information such as name, address, phone number, and e-mail address, and the Software generates a User ID and password for them. After completing the registration process, citizens can log in to the website and file a complaint. The crime module is where all of the details concerning the crime are entered. It includes information such as the date and time of the incident, the police station where it was reported, the location, the nature of the crime, and the location of the crime, among other

things. The administrator will concentrate on routine maintenance such as Master Data Maintenance and the removal of old and obsolete data from the software, among other things. The search function allows you to look up crimes by station and type of offence.

III. PROPOSED SYSTEM

The proposed system is divided into three modules.

1. **Admin Module**

    Admin module consists of the subsequent features like Managing Police Stations, Managing Sub-Admins, and Assigning Case to Sub-Admin, View Case and Update the Case Status.

2. **Sub-Admin Module**

    Sub-Admin module consists of the subsequent features like View Case and Update the Case Status, Can Add Suspect and view the suspect info, View case diary.

3. **User Module**

    User module consists of the subsequent features like Report a complaint, View the status of FIR, View Nearby Police Stations.

IV. VALUATION RESULTS AND DISCUSSION

The Fig2 shows the Home page of the online crime/complaint management system. Which consists of features like user login, user registration, admin login and sub-admin login.

Fig.2.Home Page of Online Crime Management System

The Fig3 shows the user login page of the online crime/complaint management system. User should login through registered email and password to access.

Fig.3. User login online crime/complaint management system

The Fig4 shows features available for user after login. Which will consists of features like add FIR, view case status, view nearby police station and contact us page.

Fig.4. Features available for online crime/complaint management system

Fig 5 shows the Admin login page of the online crime/complaint management system. Admin needs to log in through valid credentials.
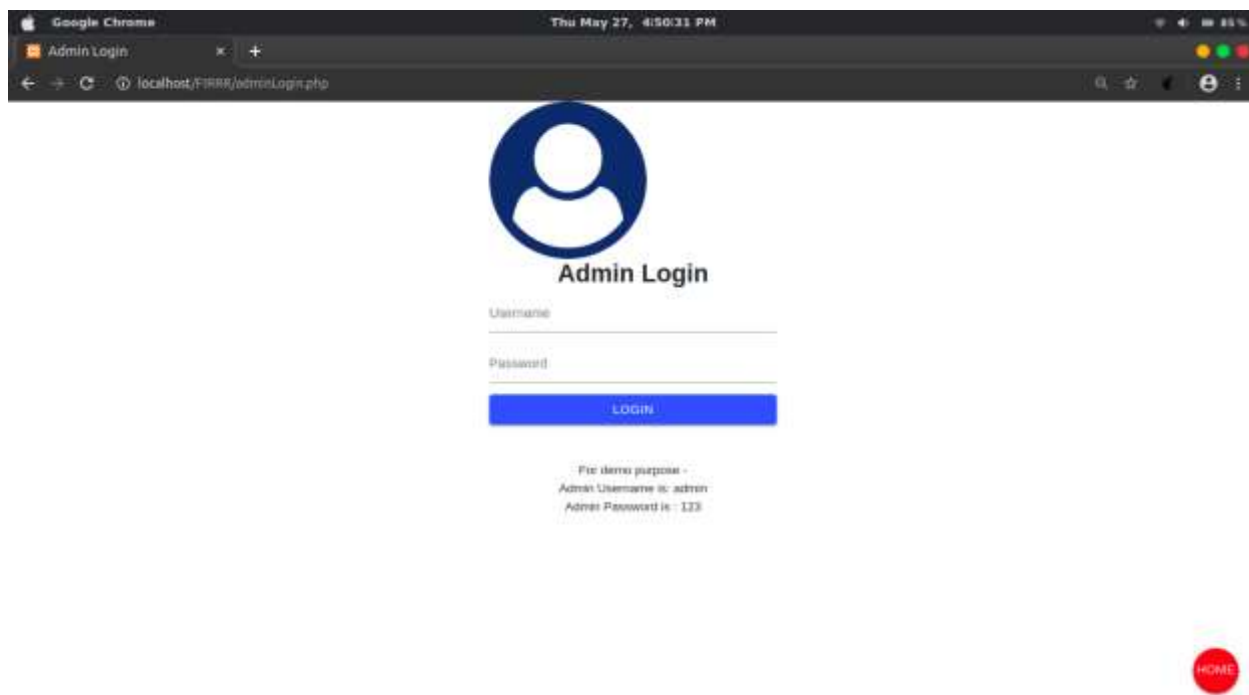

Fig.5. Admin login page

Fig 6 shows the features available for Admin after login in the online crime/complaint management system. After login admin can see all case details along with admin can manage sub-admin and police stations.
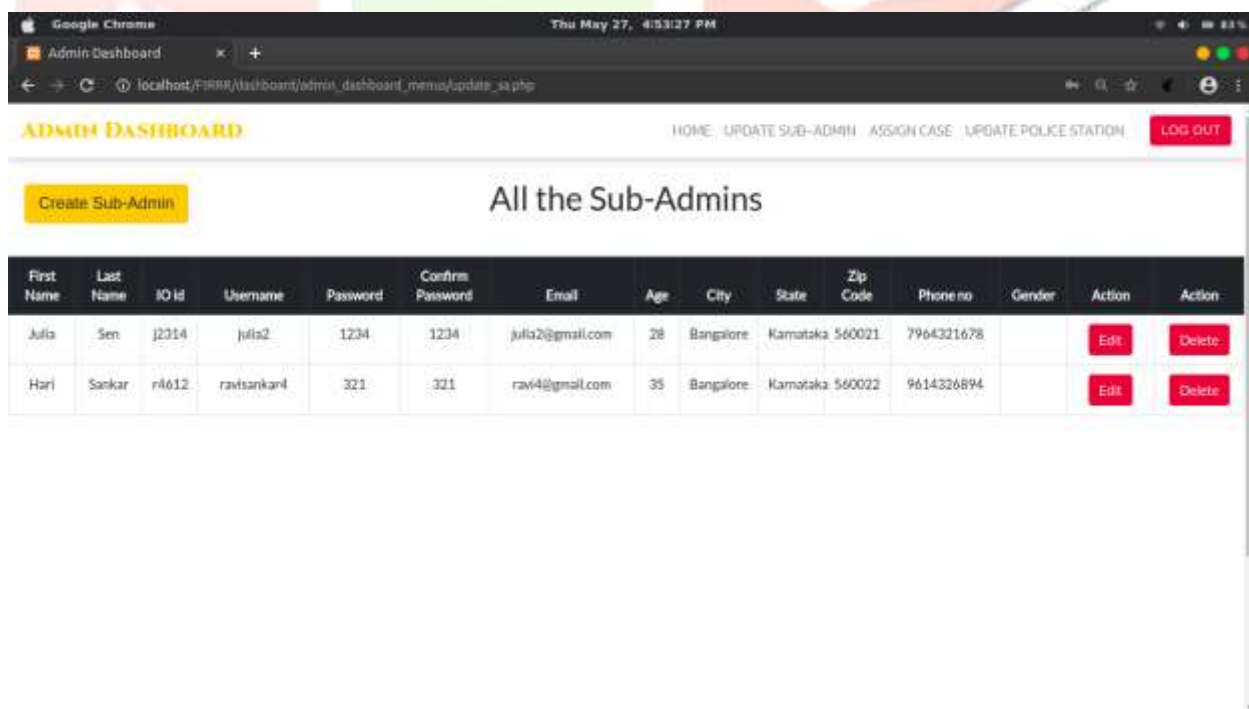

Fig.6. Features available for Admin after login in the online crime/complaint management system

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Fig 7 shows the Sub-Admin login of the online crime/complaint management system. Sub-Admin needs to log in through valid credentials.
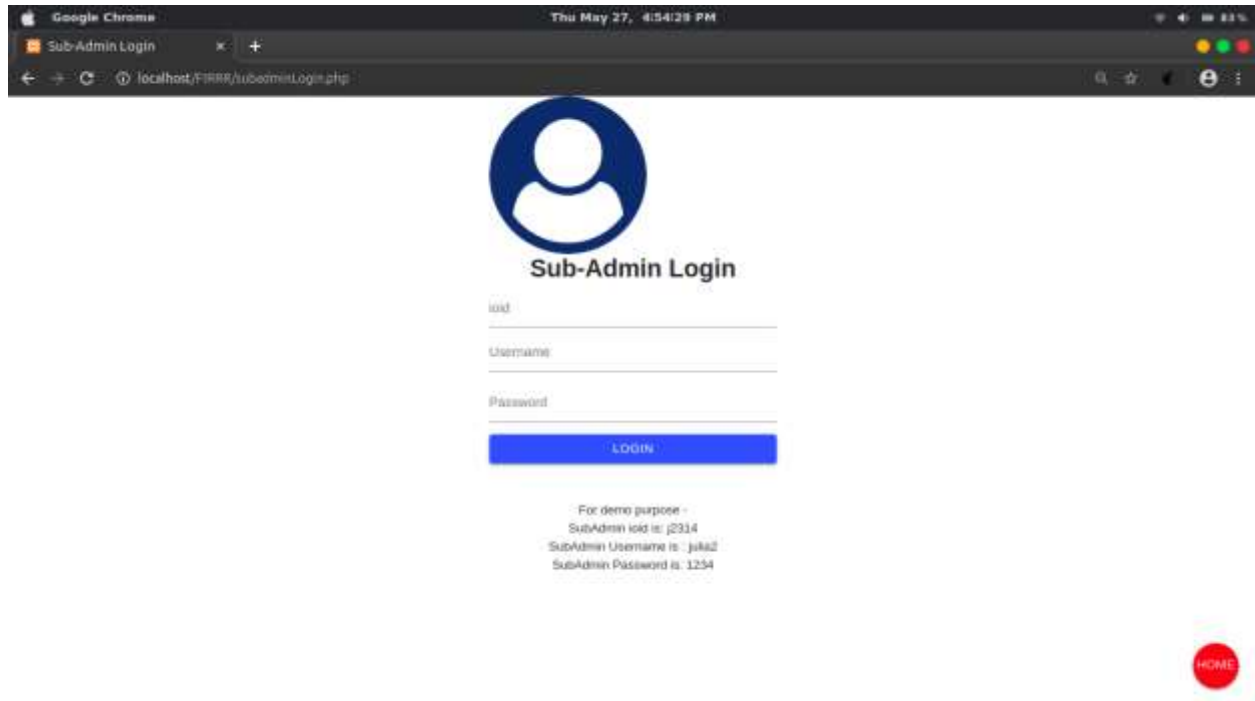

Fig.7. Sub-Admin login page

Fig 8 shows the features available for Sub-Admin after login in the online crime/complaint management system. After login sub-admin can see all case details and change case status if done or not and he can add suspect and can view info of suspect.
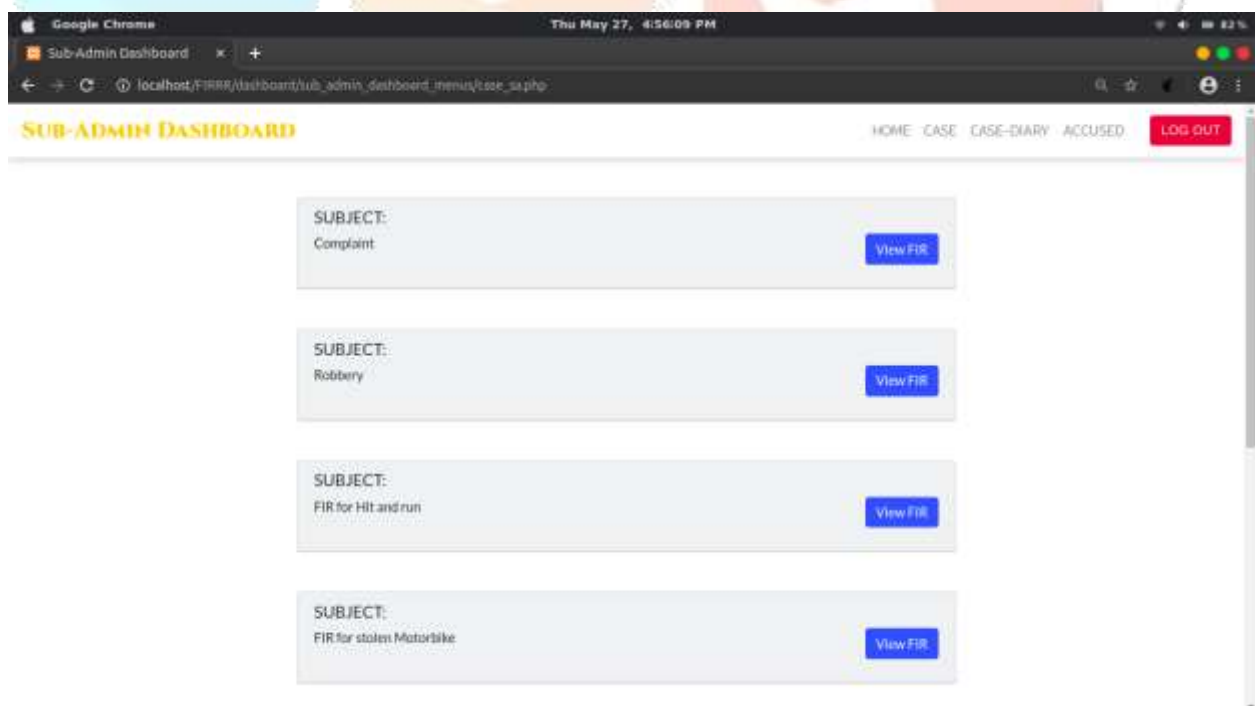

Fig.8. Features available for Sub-Admin after login in the online crime/complaint management system

V. CONCLUSION

The developed software has been found to be efficient and effective. As a result, regular and quick action against reported crimes is taken. It can be shown that the data can be gathered quickly and precisely. The project ensures a high level of security. The advantages of this crime automation and reporting system project are its simplicity and friendliness. The software has been designed to be as user-friendly as possible, allowing any layperson to run it if he has access to the system via the login password. It believes that collaborating with others is extremely advantageous to the organisation and that collaborating with others is the best strategy to prevent crime and disorder.

VI. REFERENCES

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