

# National Institute of Technology Patna



**Project on :**  
**E-Cops**

**Submitted to :**

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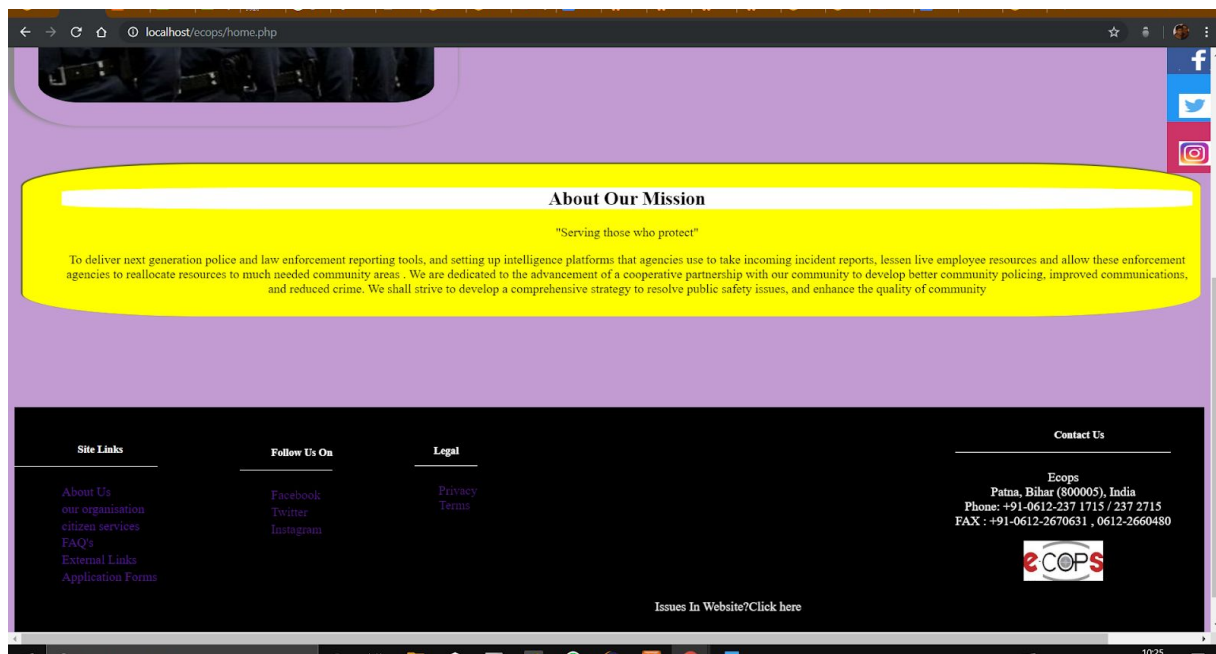
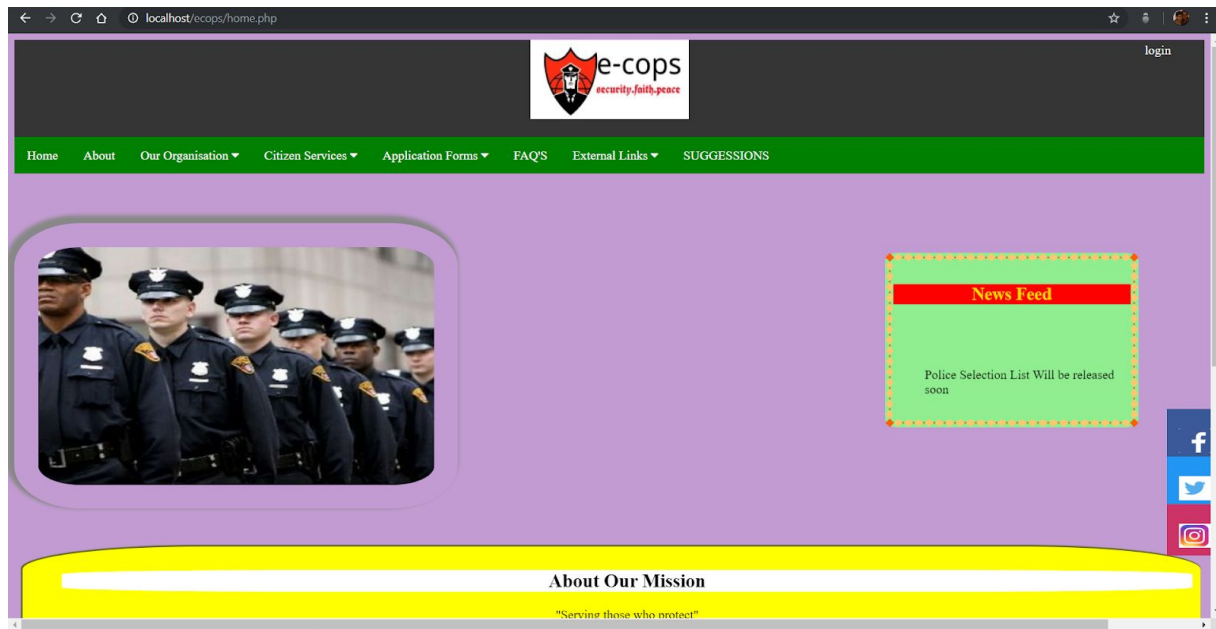
**Department of Computer Science and Technology**  
**National Institute of Technology Patna 800005**

# Table of Contents

|                                       |        |
|---------------------------------------|--------|
| 1. Cover Page .....                   | 1      |
| 1.1 Project Details .....             |        |
| 2. Table of Content .....             | 2      |
| 3. Homepage .....                     | 3      |
| 4. Introduction .....                 | 4      |
| 4.1 Objective .....                   |        |
| 4.2 Vision .....                      |        |
| 4.3 User of System .....              |        |
| 5. Requirements .....                 | 5      |
| 5.1 Functional Requirements .....     |        |
| 5.2 Non-Functional Requirements ..... |        |
| 6 Flowsheet .....                     | 5 - 11 |
| 6.1 About .....                       |        |
| 7 Reference .....                     | 7      |

## Homepage

The homepage it contain a news feed and a division that contain recent images it contains section have mission and vision and footer tab



**Objective :** "Serving those who protect"

**Vision :** To deliver next generation police and law enforcement reporting tools, and setting up intelligence platforms that agencies use to take incoming incident reports , lessen live employee resources and allow these enforcement agencies to reallocate resources to much needed community areas.

**User of System**

- ☐ Citizens
- ☐ Administrator
- ☐ Police officers ( Constable to DGP )

## **Functional Requirements :**

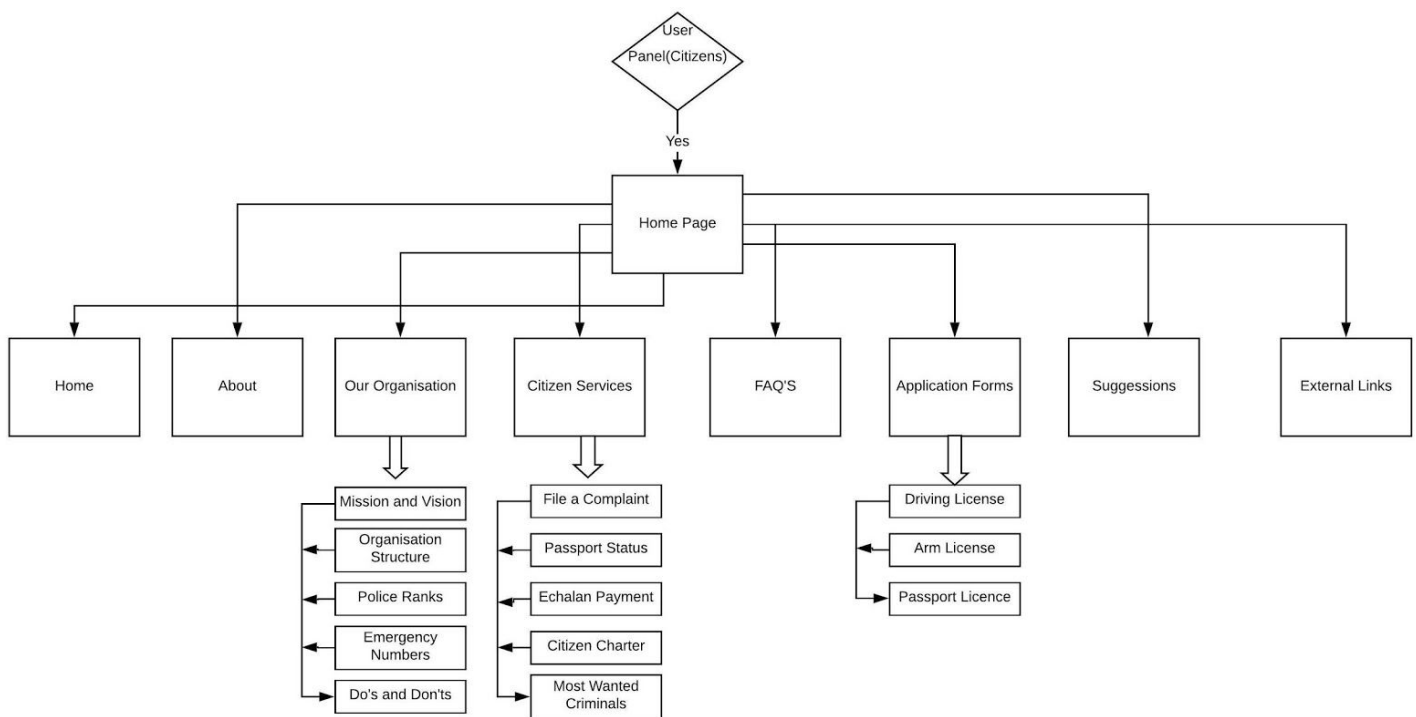
- I. Administrator should be able to create/edit a virtual police station as a first time setup.
- II. PS should have areas of control.
- III. Police station has several departments like Law and Order , Citizen services officers login, external links like cbi , interpol's etc.
- IV. When a complaint is made it undergoes various processes like FIR,  
Charge Sheet, Property Seizure, court disposal etc all these activities are preformed by police station.
- V. Maintaining the criminal information state wise is mandatory.
- VI. Communication between officers is through forum, chat, polls.
- VII. Citizen should be able to apply for various licenses like Arms  
Driving and the officer should be able to approve/reject which will be notified to the applicant via SMS.

## **Non-functional Requirements :**

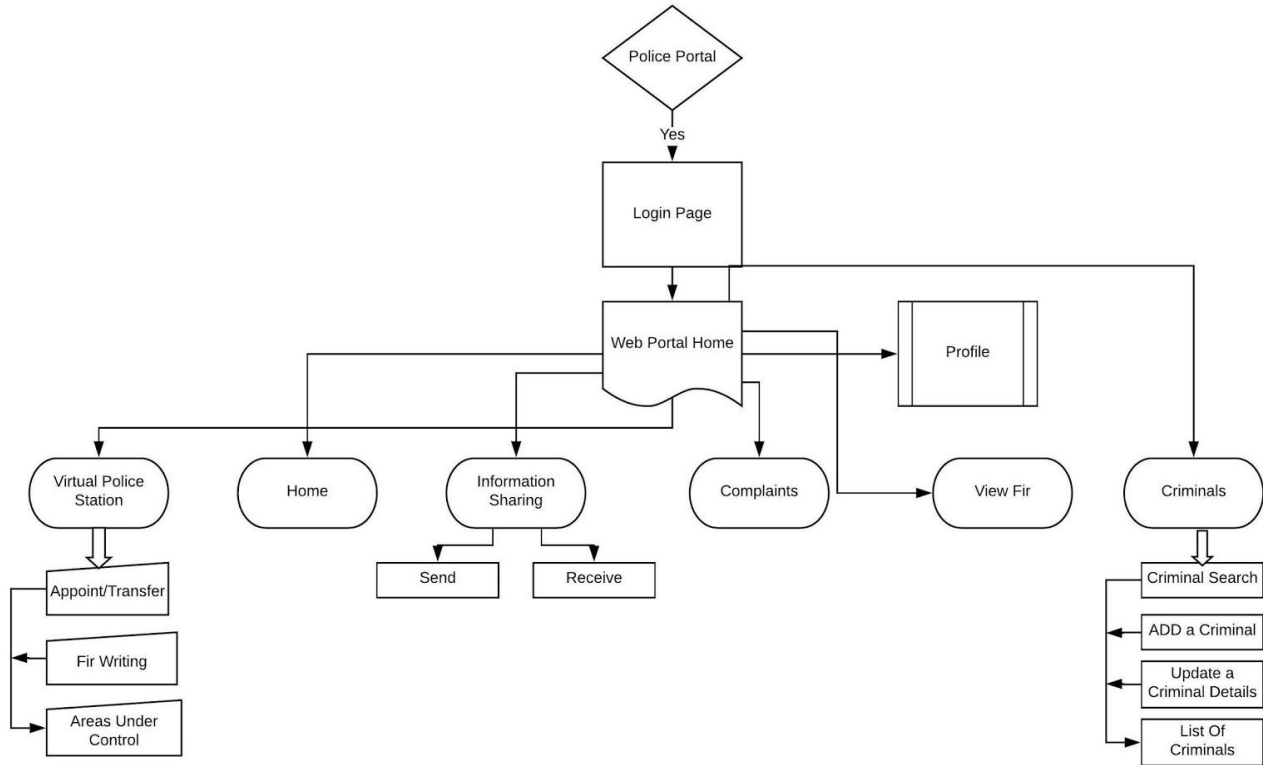
- I. Secure access of confidential data (user's details). SSL can be used.
- II. 24 X 7 availability
- III. Better component design to get better performance at peak time
- IV. Flexible service based architecture will be highly desirable for future extension

## **Flowsheet :**





**CITIZEN PORTAL FLOWCHART**

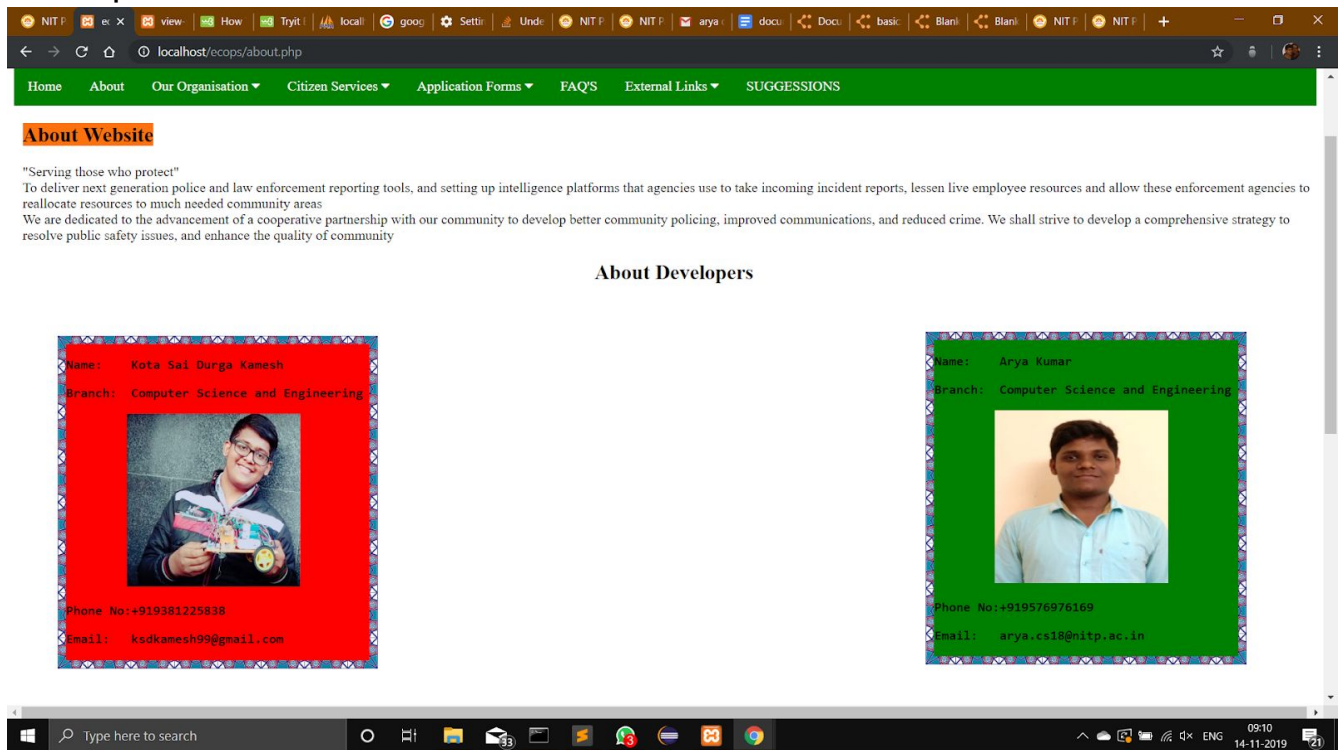


## POLICE PORTAL FLOWSHEET

This Flowsheet show how to navigate and pages are linked.

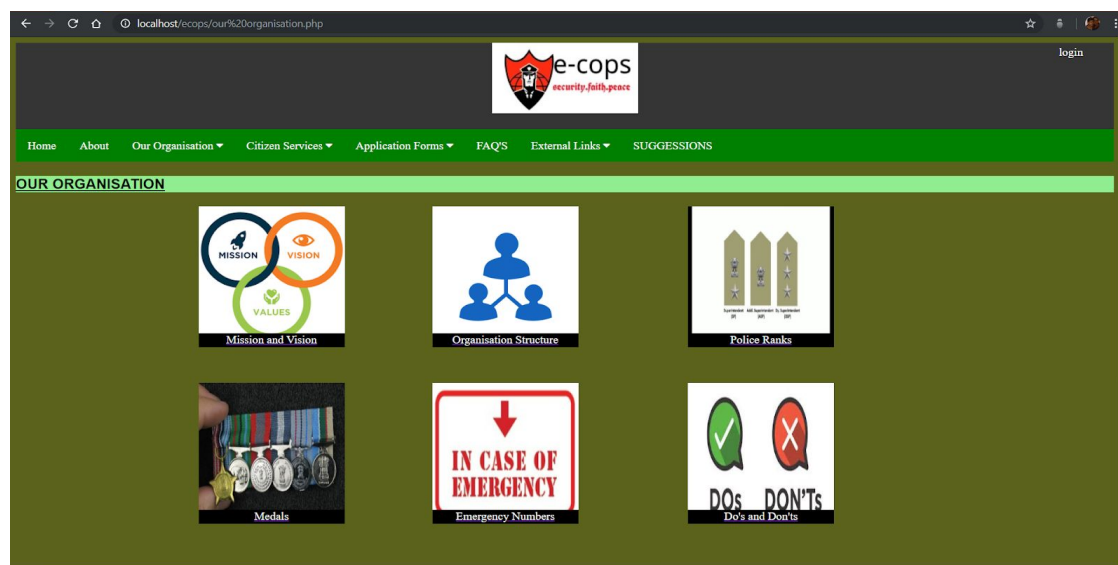
**About**

This page contains information about developer and mission and vision of site development.



## Our Organisation

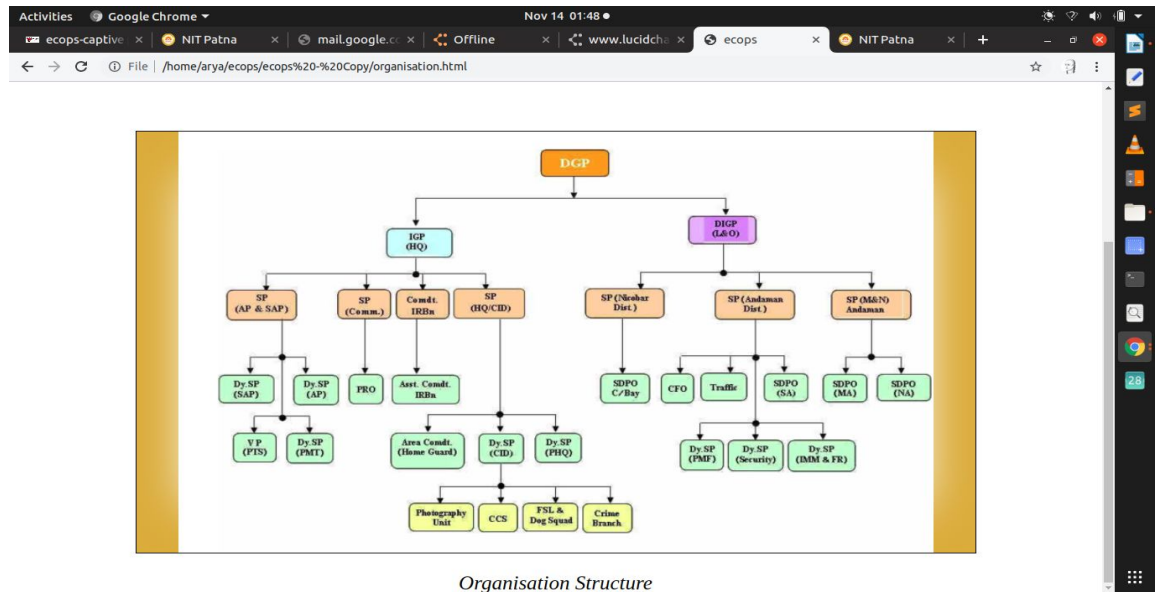
This page contains links to page Mission and vision , organisation structure , police rank , medal received by officers at higher rank and medals received by e-Cops and Emergency number.



## Organisation Structure



This page contains heriacle diagram of organisation .



## **b.)Mission and Vision:-**

This is the mission and vision page of ecops.

It Consists of

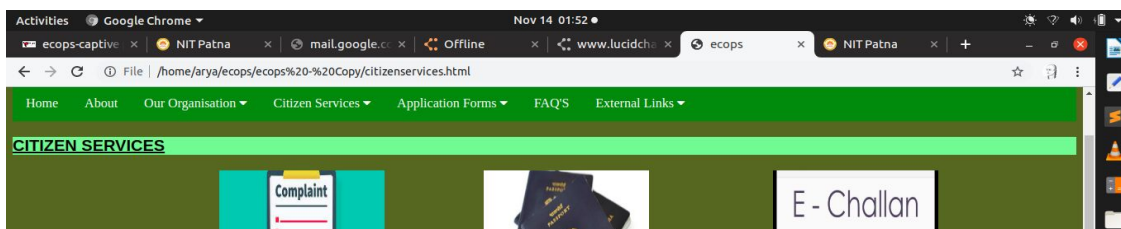
- 1.Mission
- 2.Values
- 3.Service
- 4.Ethics
- 5.Professionalism&Diversity
- 6.Vision

## **Citizen Services**

This is the most important page that provides services to citizens .It contain link in

form of interactivies division to file a complaint , to check passport status , citizen

charter containing fee for facilities and name and address and photograph of most wanted criminal in state.



**a.)File a complaint :** This page provide citizen to file a complaint that is sent to respective police station. For authentication of complaint we sent email and sms to complainant . By using php and AJAX we display filled information on current page, We make enough information to identify complainant and incident occurred, Very Soon we sent a copy to police station and officers in the hierarchical way.It is done message confirmation through sms and email by using email php mailer and way2sms api.

**MESSAGE SENT WILL BE SHOWN AS BELOW:-**



[Hi There,Thanks FOr Choosing Ecops,your Complaint is successfully received and we Will come to contact u soon]

2:10 AM



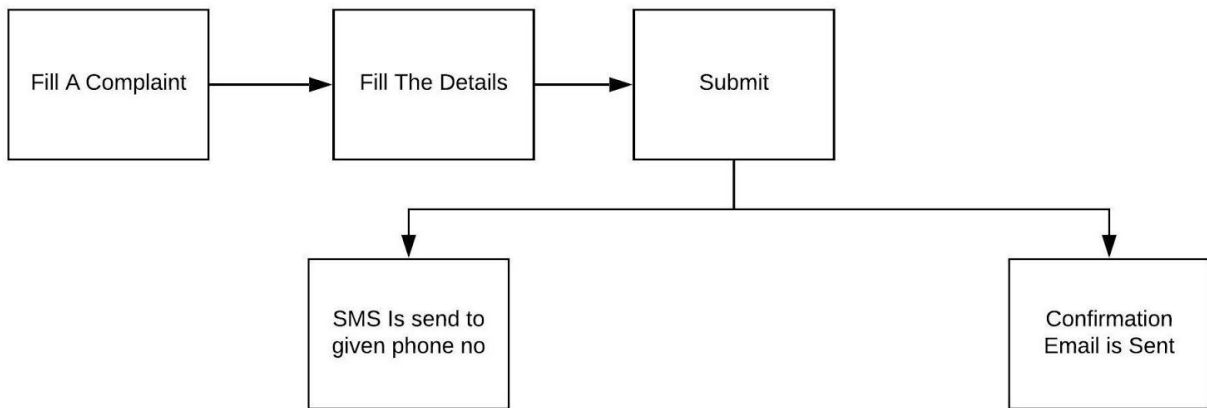
**ecops** <ecopsecops8@gmail.com>  
to me ▾

11:36 AM (0

hello Sai Durga Kamesh KotaThanks FOr Choosing Ecops,your Complaint is successfully received For any Other Queries Feel Free To Contact Us

With Regards,  
Ecops  
Patna, Bihar (800005), India  
Phone: +91-0612-237 1715 / 237 2715  
FAX : +91-0612-2670631 , 0612-2660480

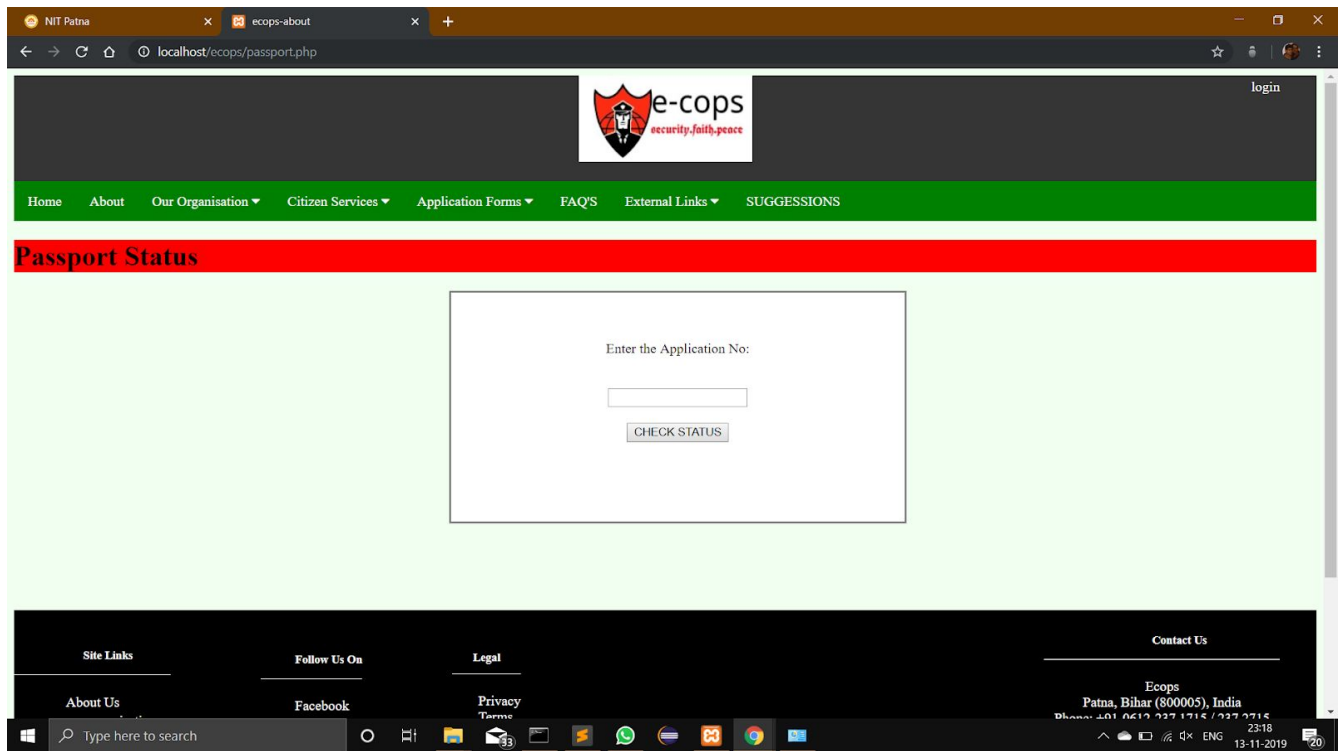
**EMAIL SENT WILL BE SHOWN AS ABOVE:-**



## FILL A COMPLAINT FLOWCHART

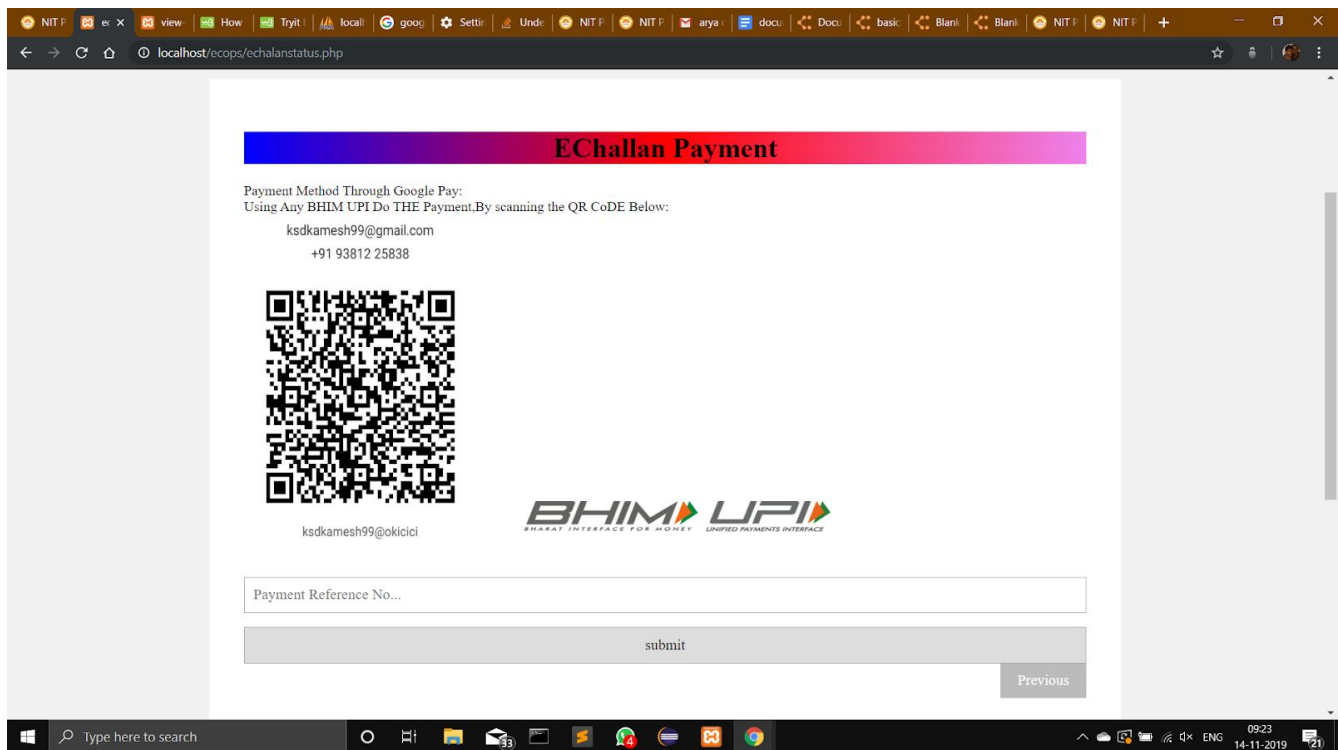
The screenshot shows a web browser displaying a 'Complaint Form'. The form is divided into two main sections: 'Complaint Detail' and 'Personal Detail'. The 'Complaint Detail' section includes fields for 'Subject:', 'Date Of Incident:', 'Time Of Incident:', and a large text area for 'Write Complaint:'. The 'Personal Detail' section includes fields for 'Name:', 'Phone:', 'Email:', and 'Complete Address:'. The background of the form features a grayscale image of a person wearing a helmet. The browser's address bar shows the URL: `/home/arya/ecops/ecops%20-%20Copy/complaint%20form.html`.

**b.)Passport Status :** This page contain an input section to enter application number of passports that provided at filling application.

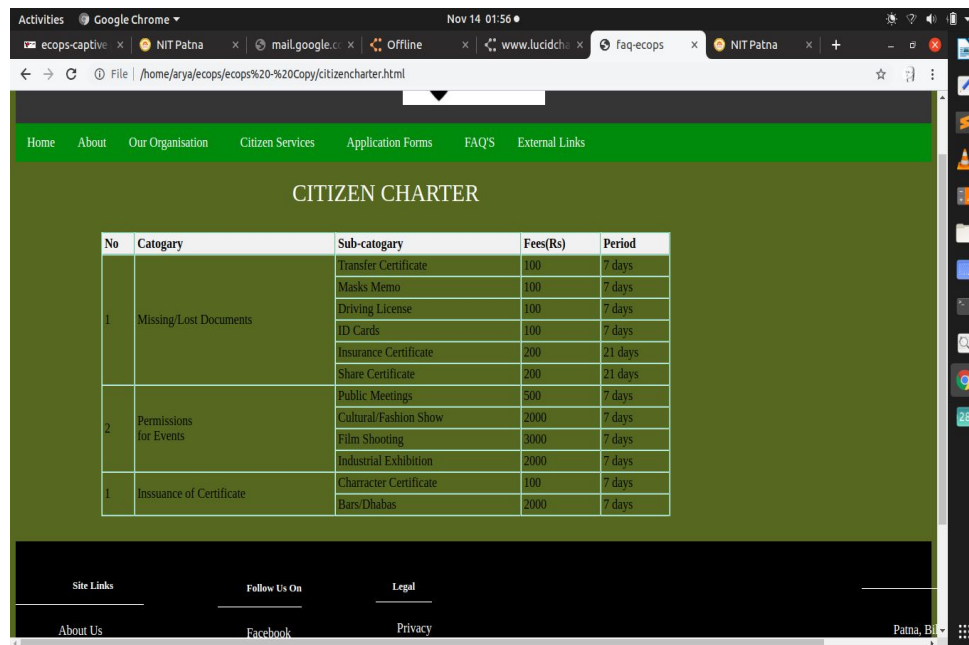


### c.)E Challan Payment:

This page contains the challan form payment and the payment is done using the google pay api and enter the payment reference no



**d.)Citizen Charter :** This page contain a table/chart listed fee for different work or services provided by e-Cops.

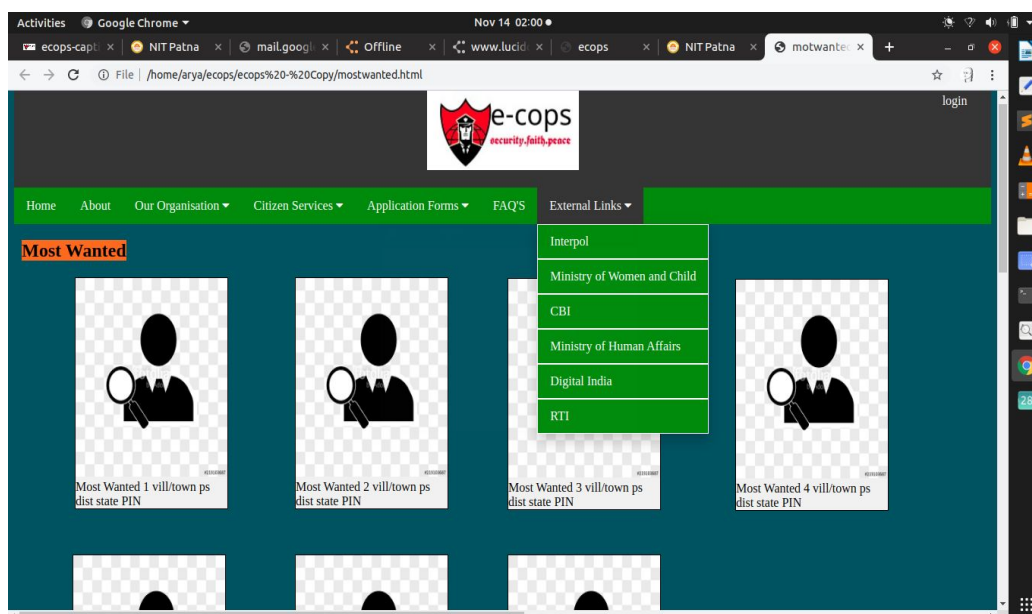


The screenshot shows the 'CITIZEN CHARTER' page of the e-cops website. It features a table with the following data:

| No | Category                | Sub-category          | Fees(Rs) | Period  |
|----|-------------------------|-----------------------|----------|---------|
| 1  | Missing/Lost Documents  | Transfer Certificate  | 100      | 7 days  |
|    |                         | Masks Memo            | 100      | 7 days  |
|    |                         | Driving License       | 100      | 7 days  |
|    |                         | ID Cards              | 100      | 7 days  |
|    |                         | Insurance Certificate | 200      | 21 days |
|    |                         | Share Certificate     | 200      | 21 days |
| 2  | Permissions for Events  | Public Meetings       | 500      | 7 days  |
|    |                         | Cultural Fashion Show | 2000     | 7 days  |
|    |                         | Film Shooting         | 3000     | 7 days  |
|    |                         | Industrial Exhibition | 2000     | 7 days  |
| 1  | Issuance of Certificate | Character Certificate | 100      | 7 days  |
|    |                         | Bars/Dhabas           | 2000     | 7 days  |

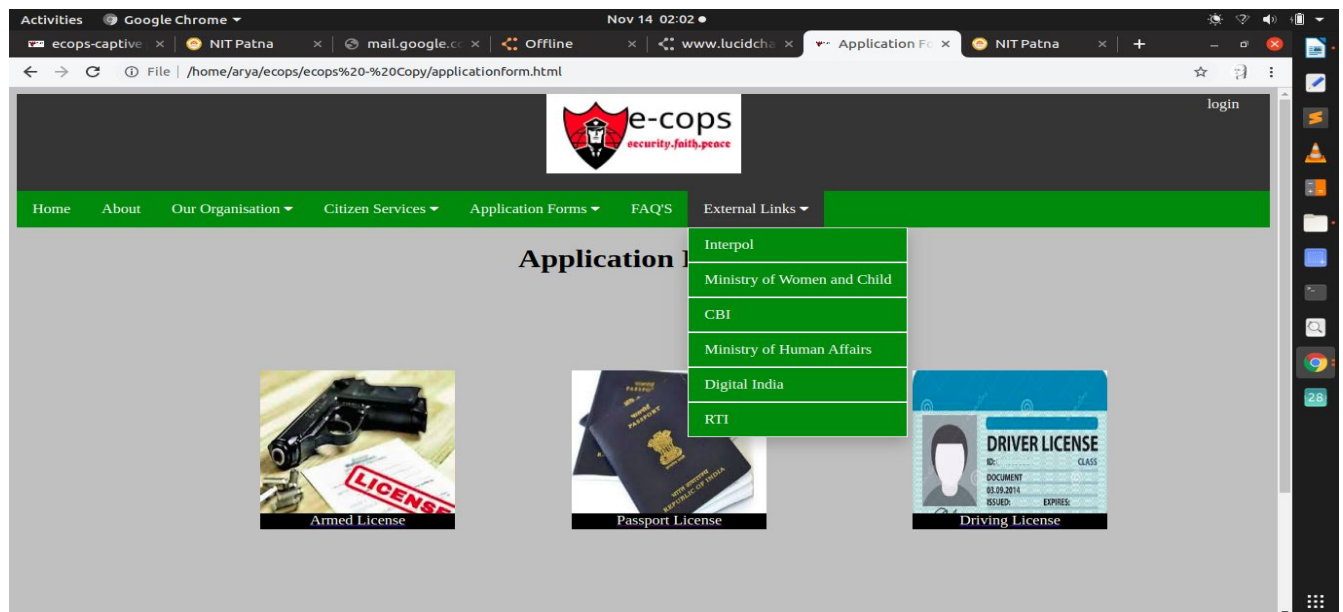
8

**e.)Most Wanted Criminals :** This page have name address and photograph of criminals who were indulged in high profile or bigger crime.



**Application Form:-**

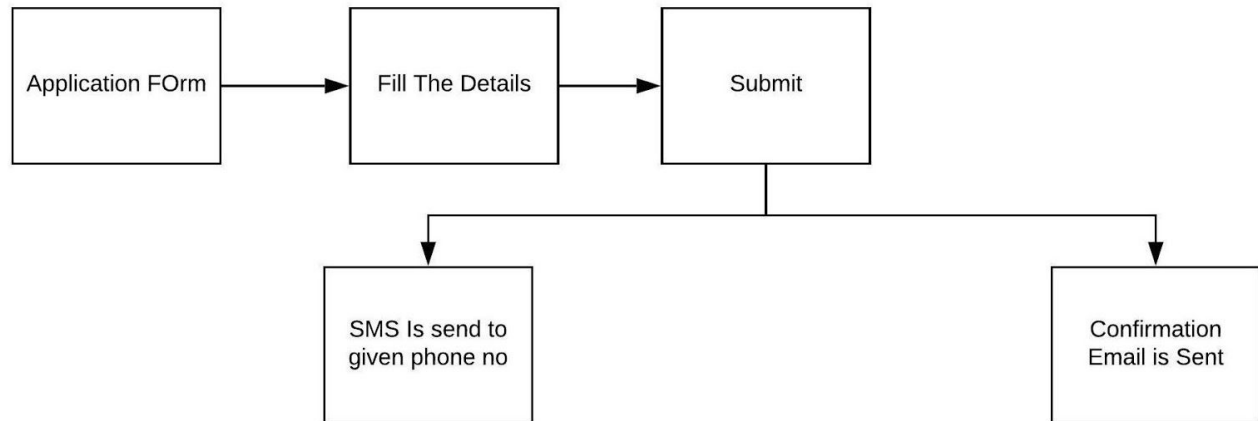
This page provide you apply for a passport , arms and driving licenses.After filling application user got email and sms for authentication purposes. We



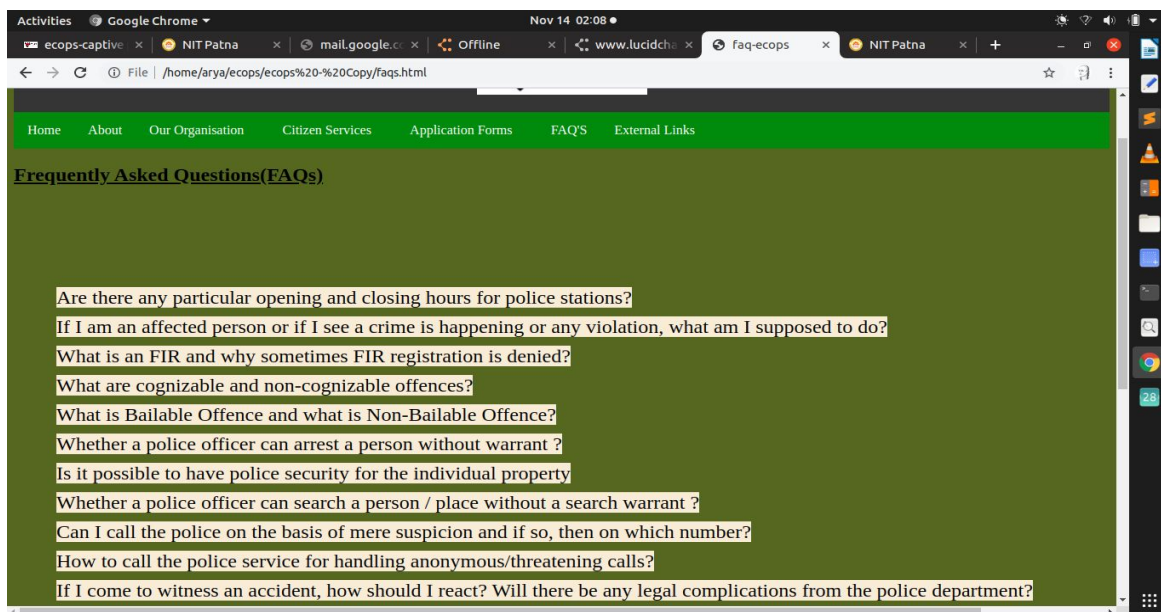
provide application number to check the status of their application.

## Armed Licence:-

A screenshot of the e-cops website showing the 'Armed License' application form. The browser's address bar shows the URL: /home/arya/ecops/ecops%20-%20Copy/armed.html. The website has the same header and navigation bar as the previous screenshot. The 'Armed License' section is active, displaying a form with the following fields: Name, Phone, Email, Complete Address (a large text area), PinCode, and City. There is also a large empty text area at the bottom of the form.



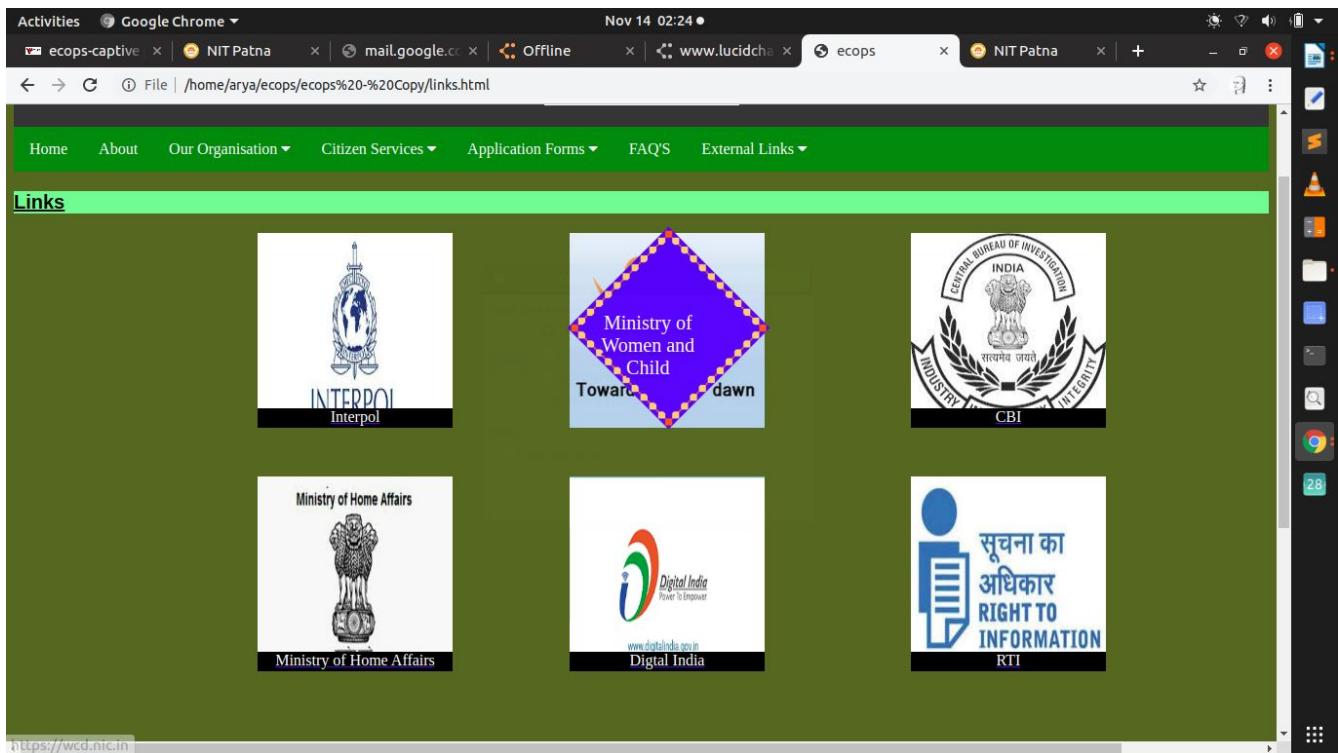
**FAQs** : This page contains commonly asked questions that visitors can get rid doubts related to filing FIR and other rules.



## **External Links**

This page contains links for interpol to redirect interpol ,Ministry of Women and Child to get easy access to ministry of women and child, CBI to jump CBI site ,Ministry of home affairs, Digital India Mission and Right to Information





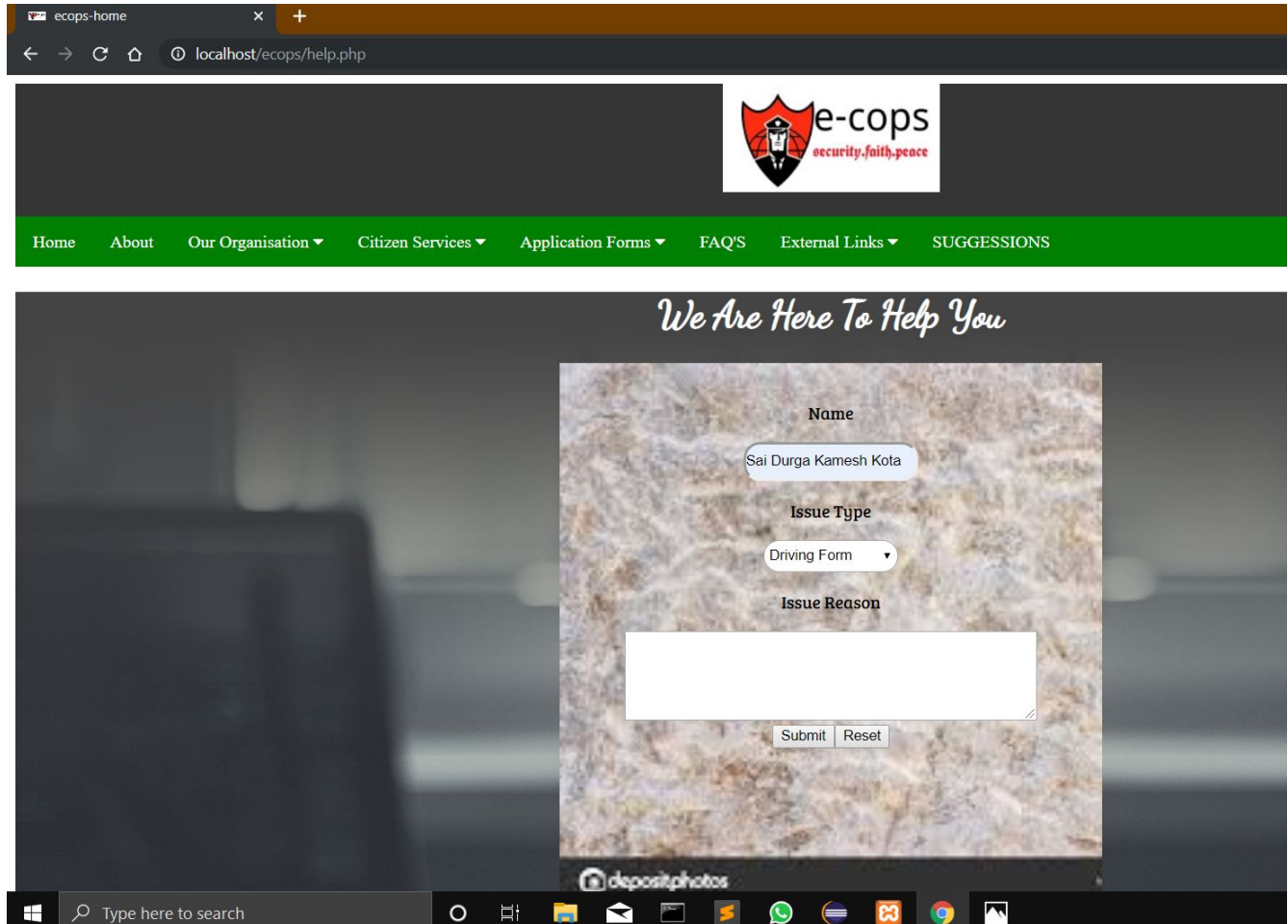
## Suggestions Page:-

We Developers Of Ecops Accept suggestions from the users and every one are free to suggest their views with us.



## Issues Page:-

This Page is for users who can fill when they have any kind of issues in filling forms/other in the website. we will be very thankful to you for reporting your issues.



The screenshot displays a web browser window with the address bar showing 'localhost/ecops/help.php'. The website header features the 'e-cops' logo with the tagline 'security, faith, peace'. A green navigation bar contains links: Home, About, Our Organisation, Citizen Services, Application Forms, FAQ'S, External Links, and SUGGESTIONS. The main content area has a dark background with the text 'We Are Here To Help You' in a white script font. Centered on the page is a form with a textured background. The form includes a 'Name' field with the text 'Sai Durga Kamesh Kota', an 'Issue Type' dropdown menu set to 'Driving Form', and an 'Issue Reason' text area. At the bottom of the form are 'Submit' and 'Reset' buttons. A 'depositphotos' watermark is visible at the bottom of the form area. The Windows taskbar is visible at the bottom of the screen.

ecops-home

localhost/ecops/help.php

e-cops  
security, faith, peace

Home About Our Organisation Citizen Services Application Forms FAQ'S External Links SUGGESTIONS

*We Are Here To Help You*

Name  
Sai Durga Kamesh Kota

Issue Type  
Driving Form

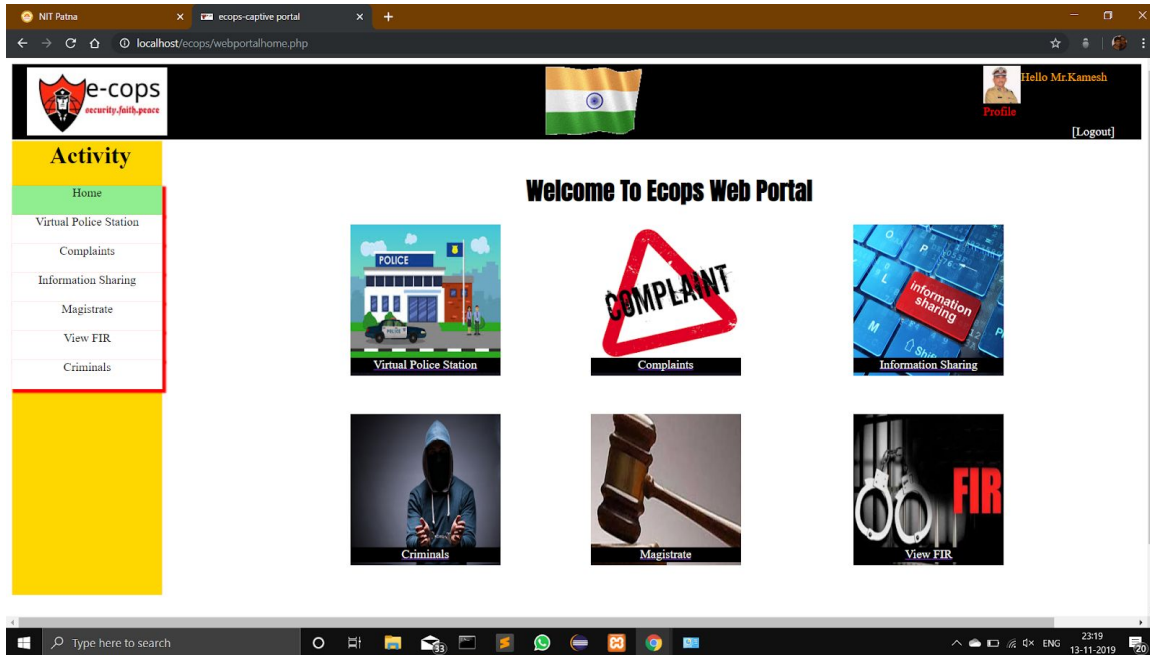
Issue Reason

Submit Reset

depositphotos

## POLICE OFFICER SECTION:-

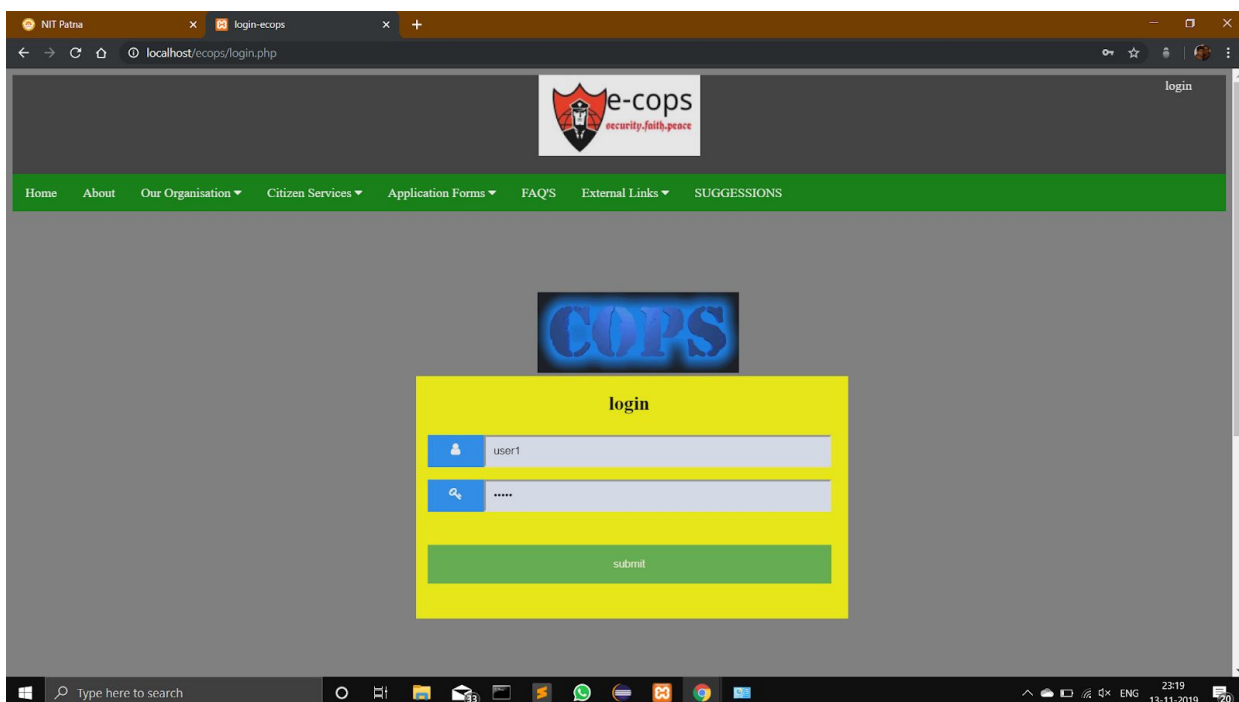
This page is only for officer and only open after login at homepage or any another page of site. It gives officer to communicate with others and to view FIR and complaints their profile and areas under their control.



Login

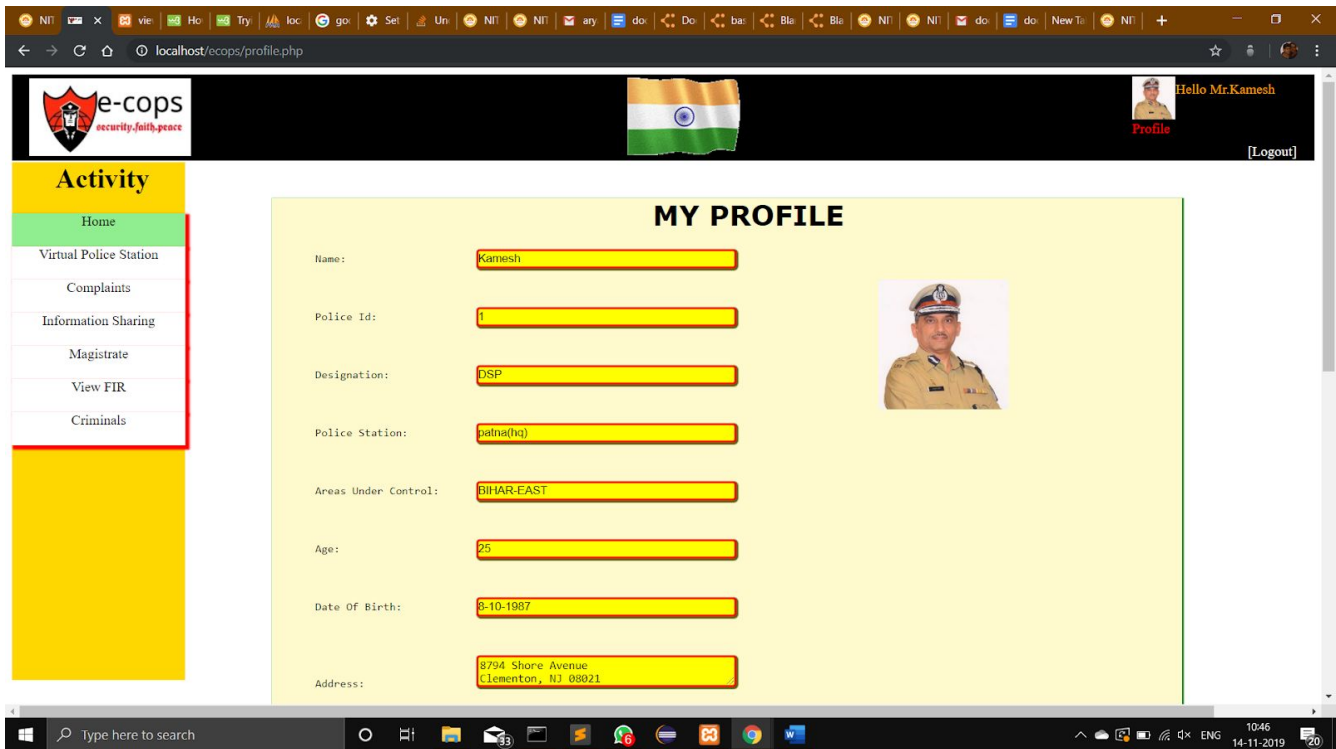
## Homepage

This page contains virtual police station, complaints section, information sharing section, criminal records, and officers can view FIR under them or officers working under them.



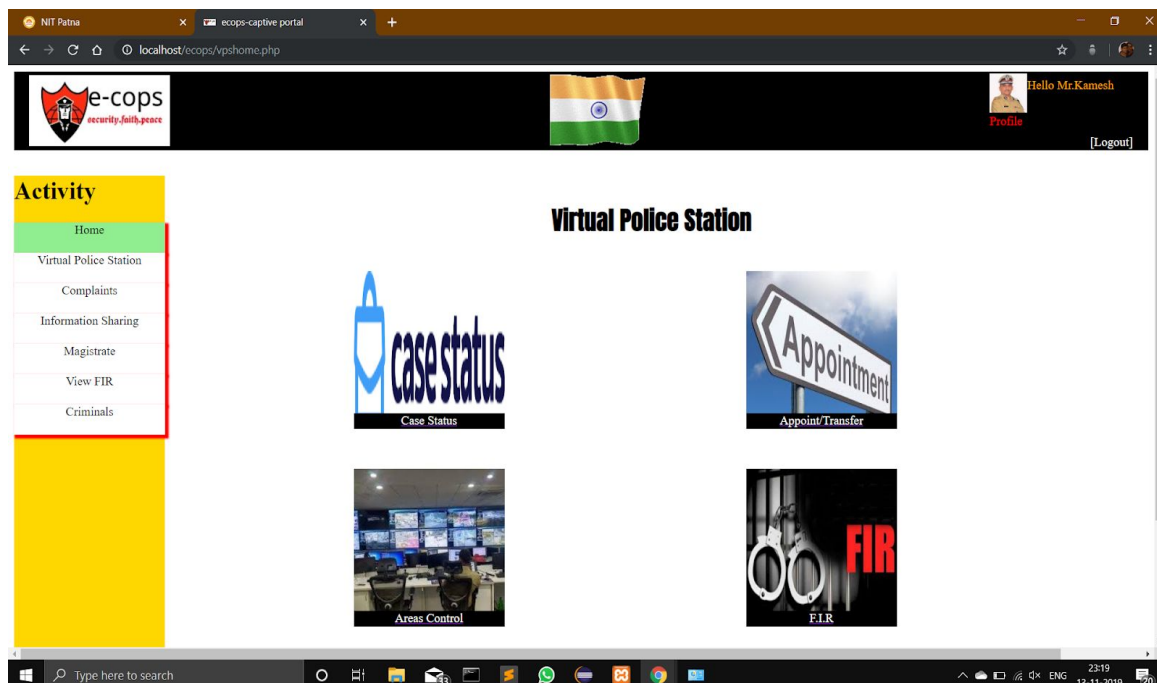
## Profile Page:-

This page will display the profile of a particular police officer including his designation, mobile no, home address, email id and photo etc.



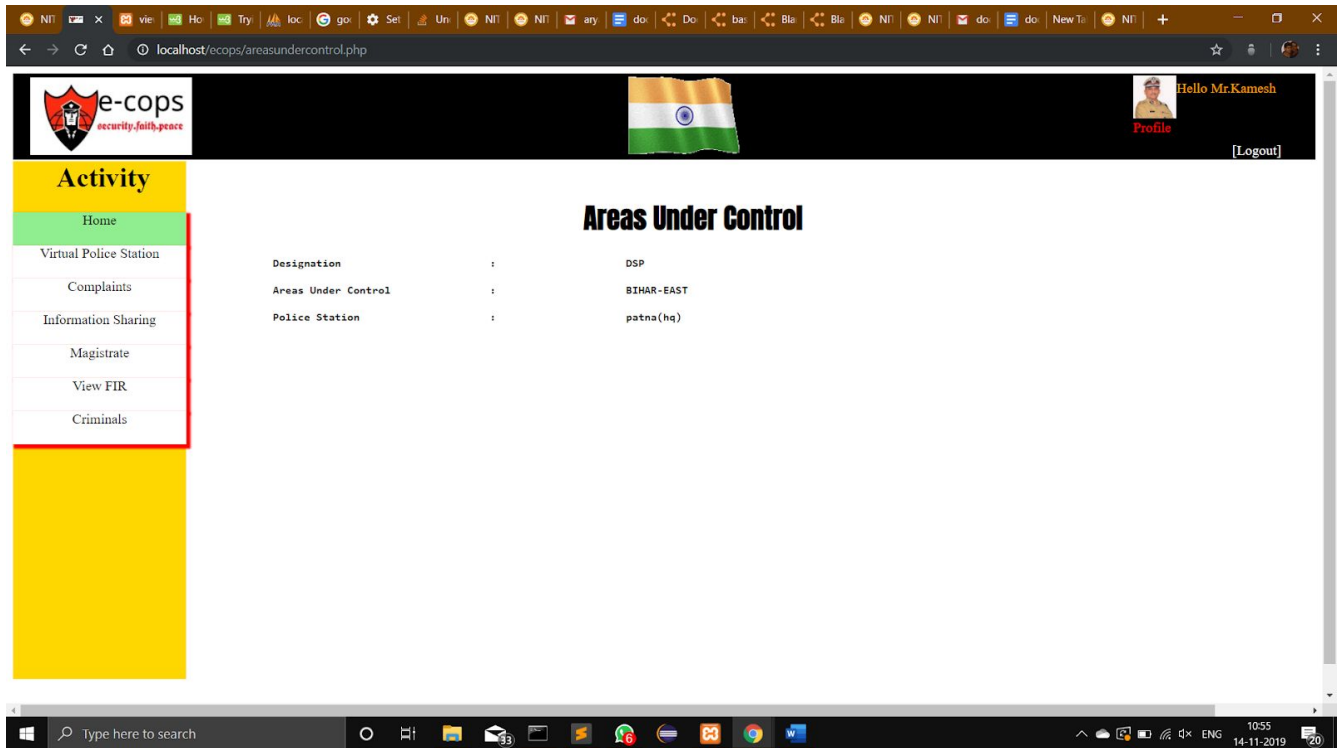
## Virtual Police Station

This section has links to virtual police station where officers can see area under control, view FIRs, case status and appointment and transfer of officers.



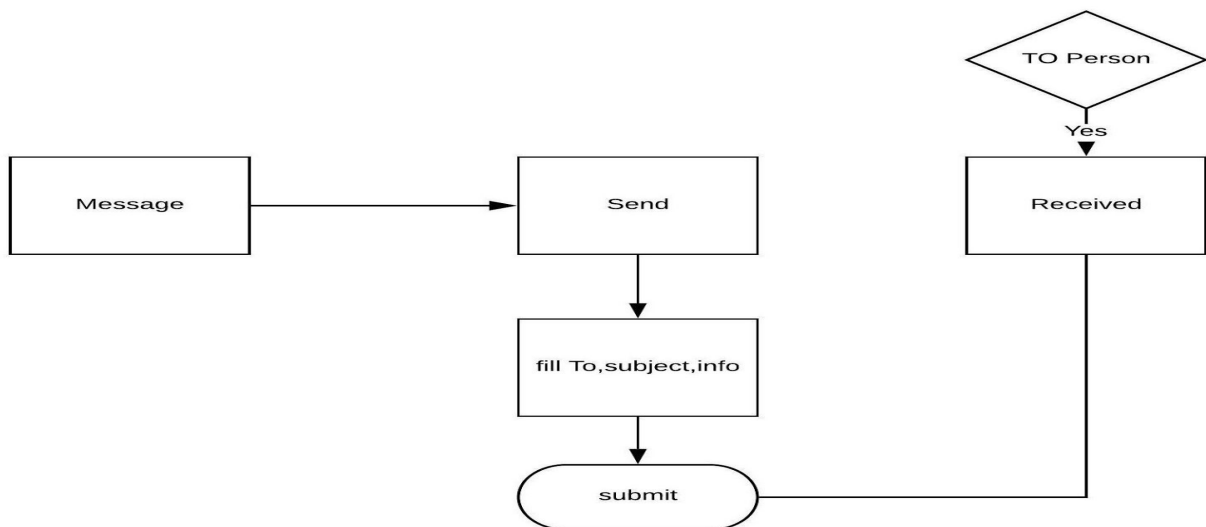
## Areas under Control:-

This section shows the designation, police station and areas under control

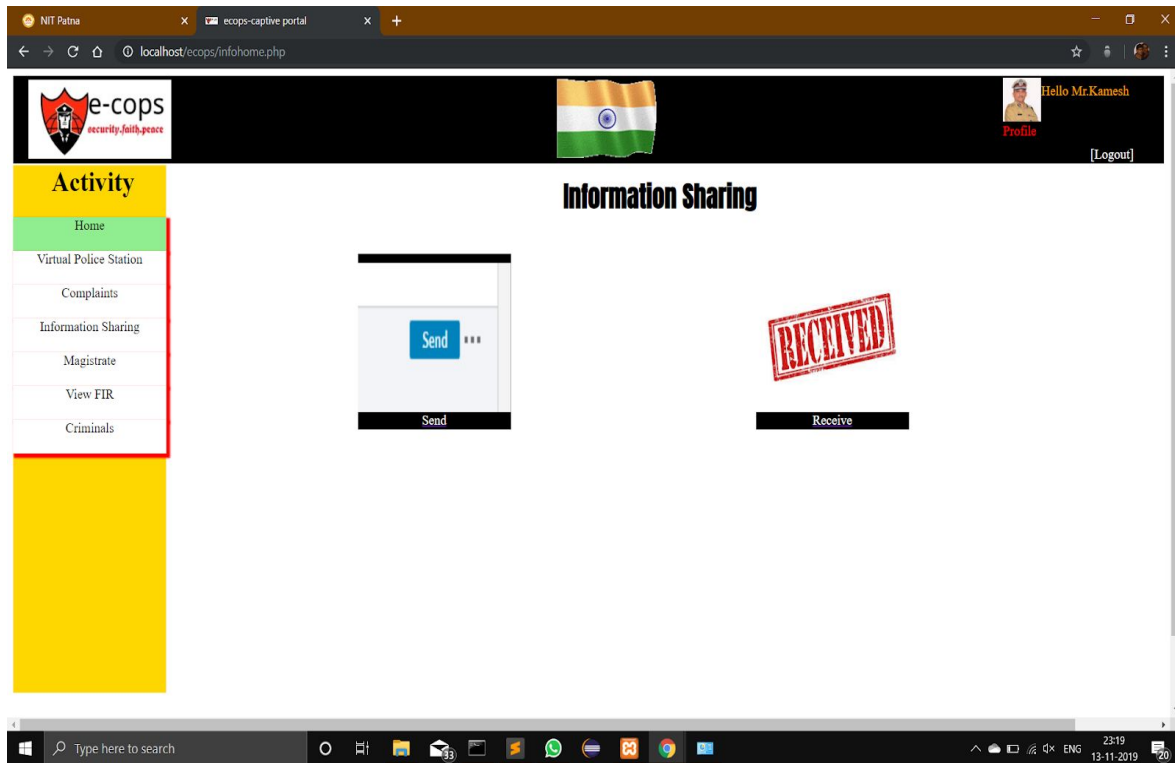


## Information Sharing

This section shows received and sent information with time and date . It give officer way to communicate with other officers.

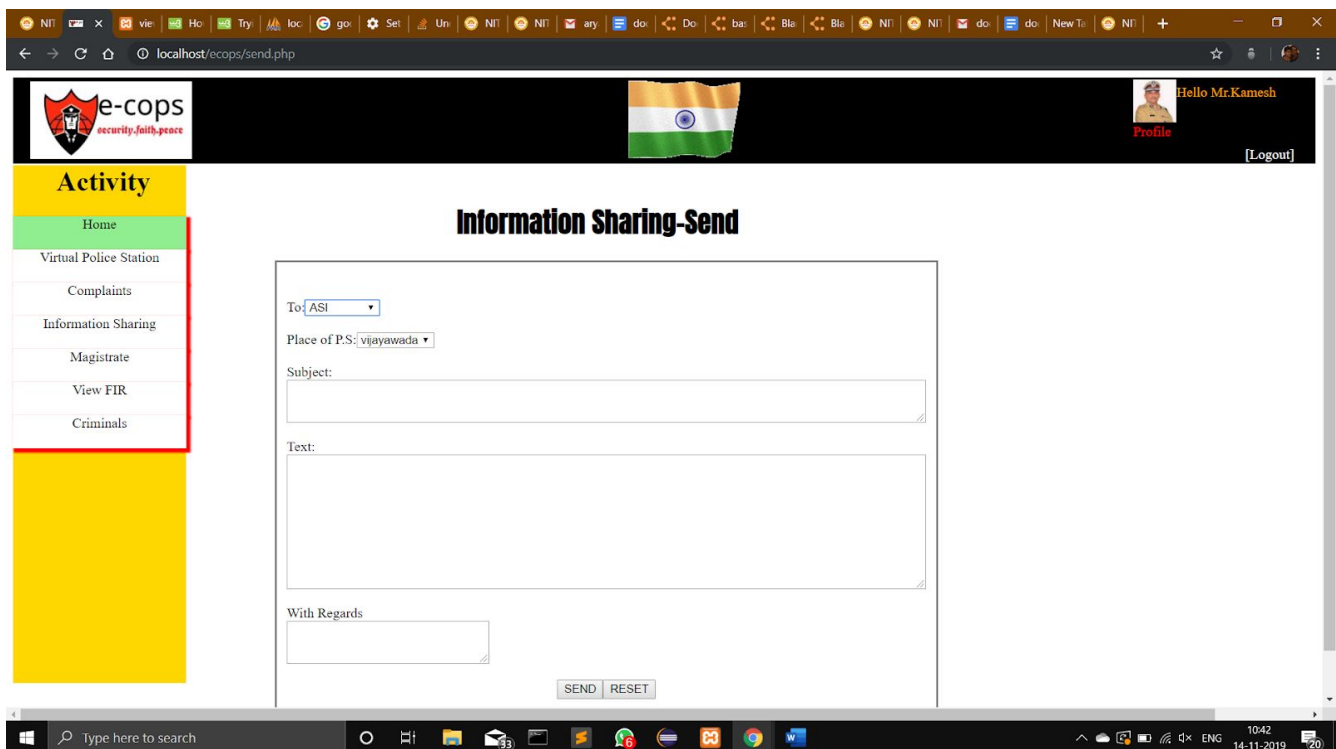


# INFORMATION SHARING FLOWCHART



This is having 2 parts

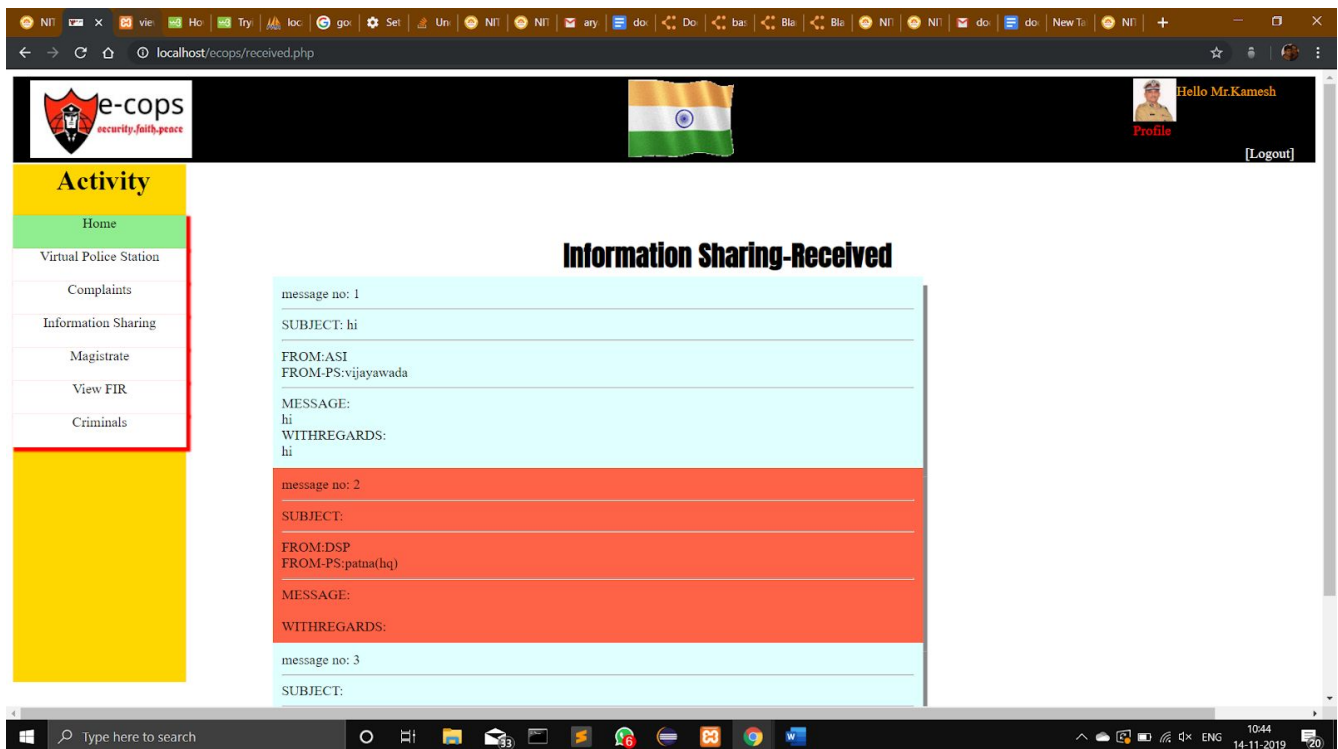
## 1.)Send:-



This page is used to send the information from one officer to another officer .The checking of the person to whom is sending is there in this site is done using dynamic select menu using ajax,php.

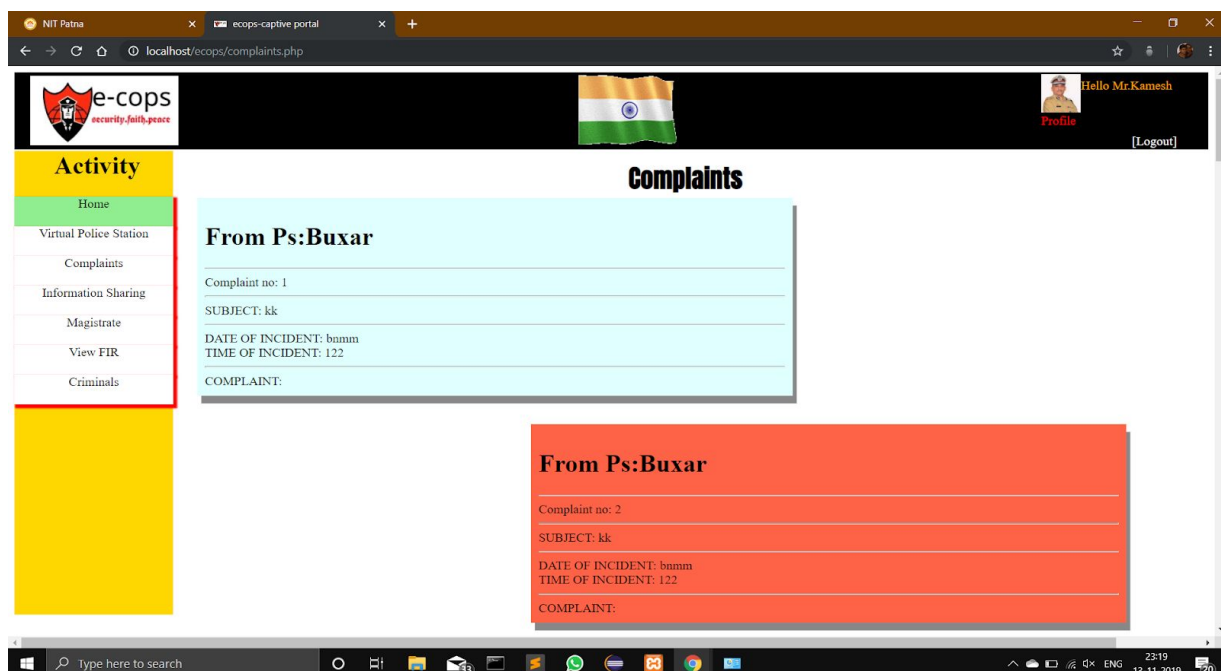
## 2.)Received:-

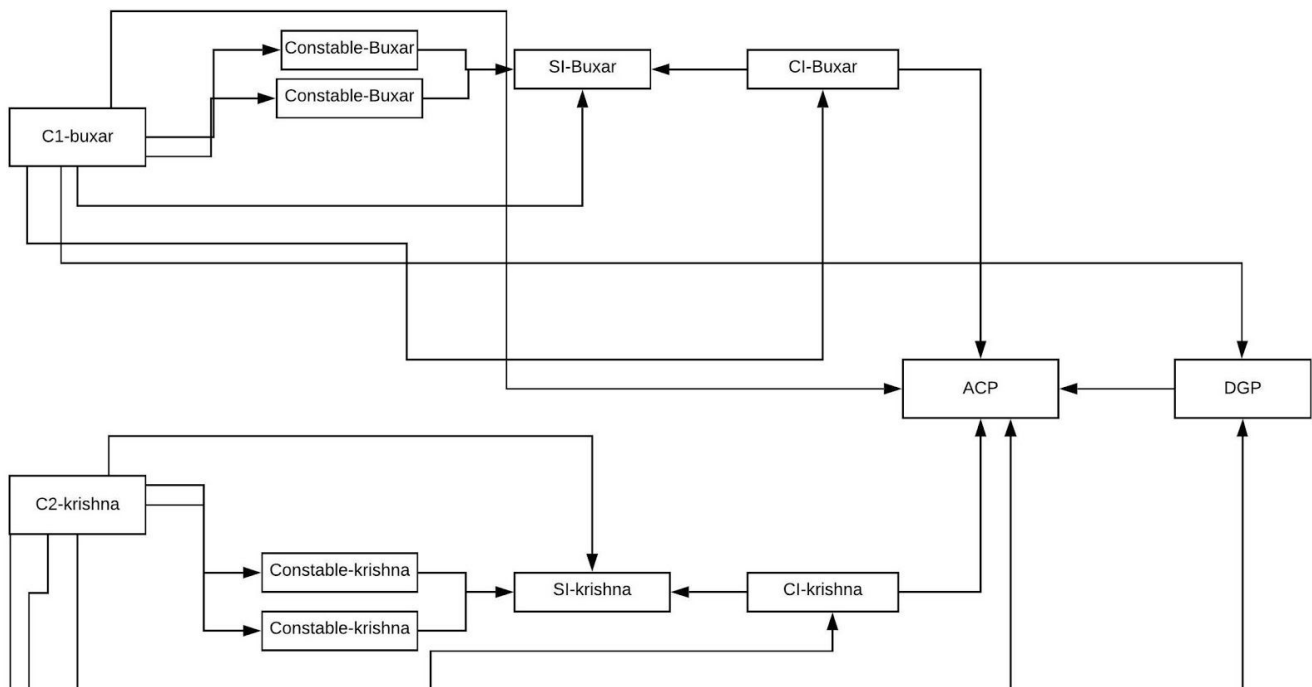
This page will display the received information from other police officer



## Complaints

This page show full description of complaints that is provided by complainant .

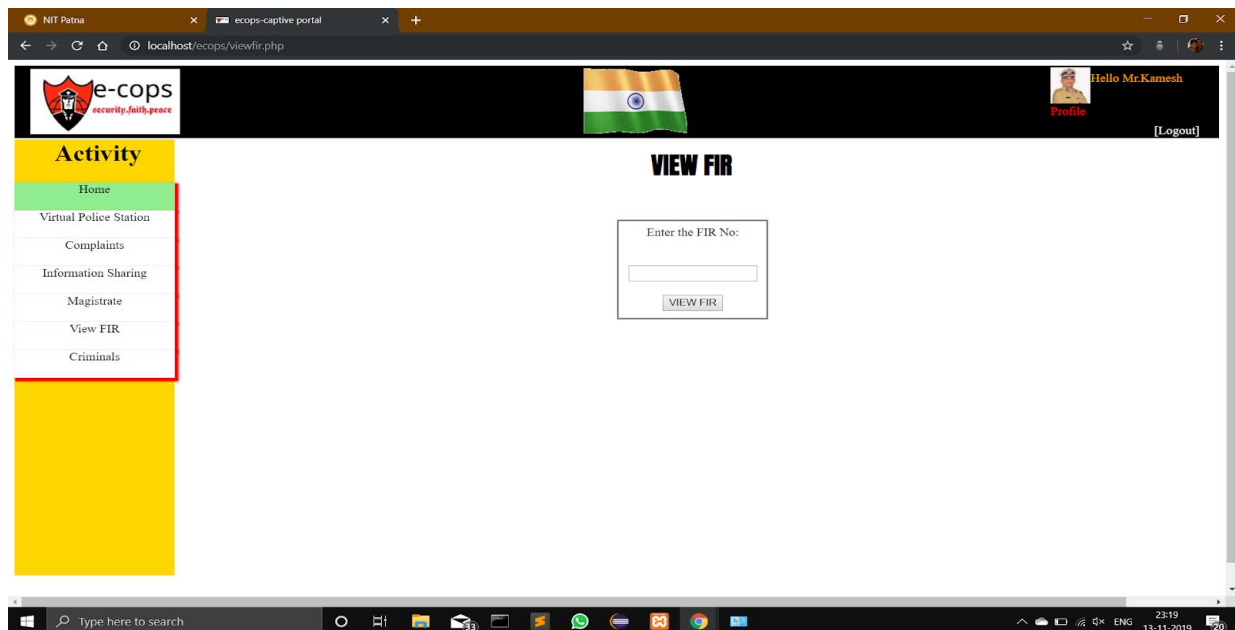




## FLOWCHART OF HIERARCHICAL DISTRIBUTION OF COMPLAINTS

### View FIR

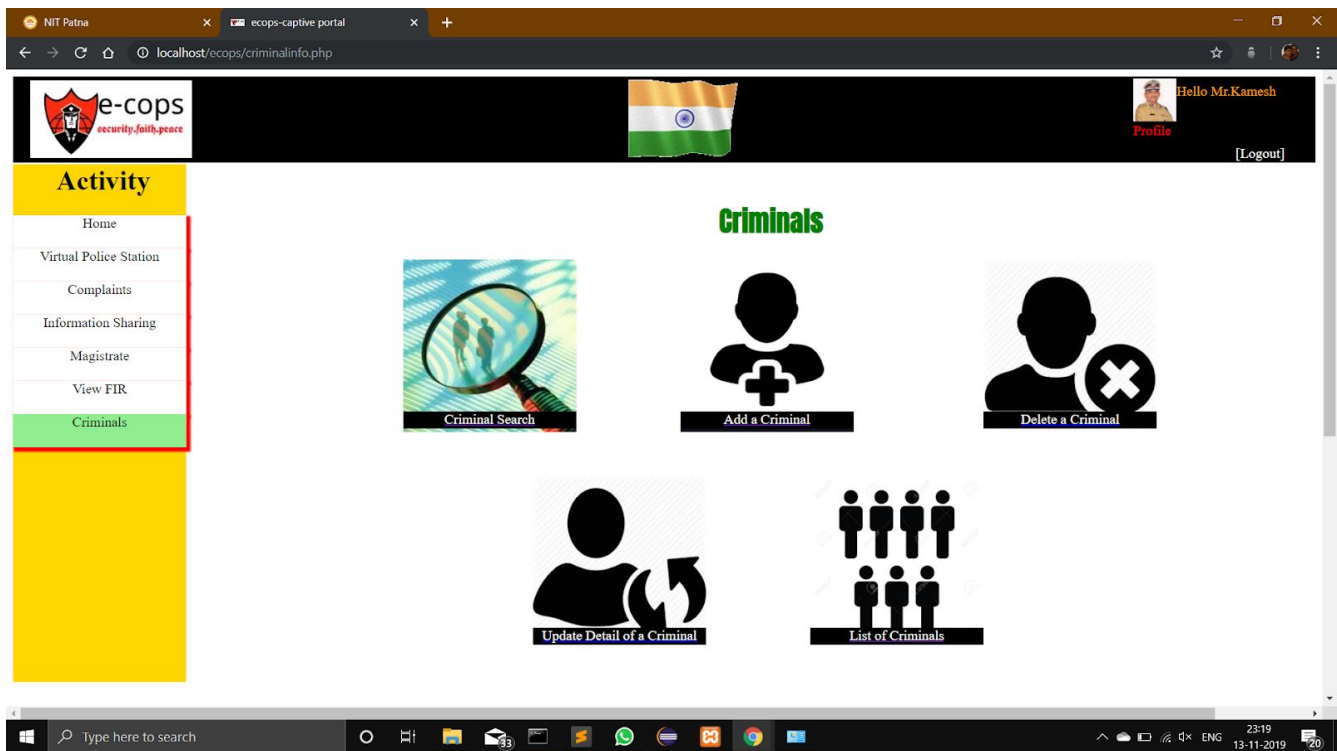
In this section of the site you can view FIR by entering FIR number.





## Criminals:

This page show full description of criminal such as criminal search,criminal adding,updating,list of criminals in his area.

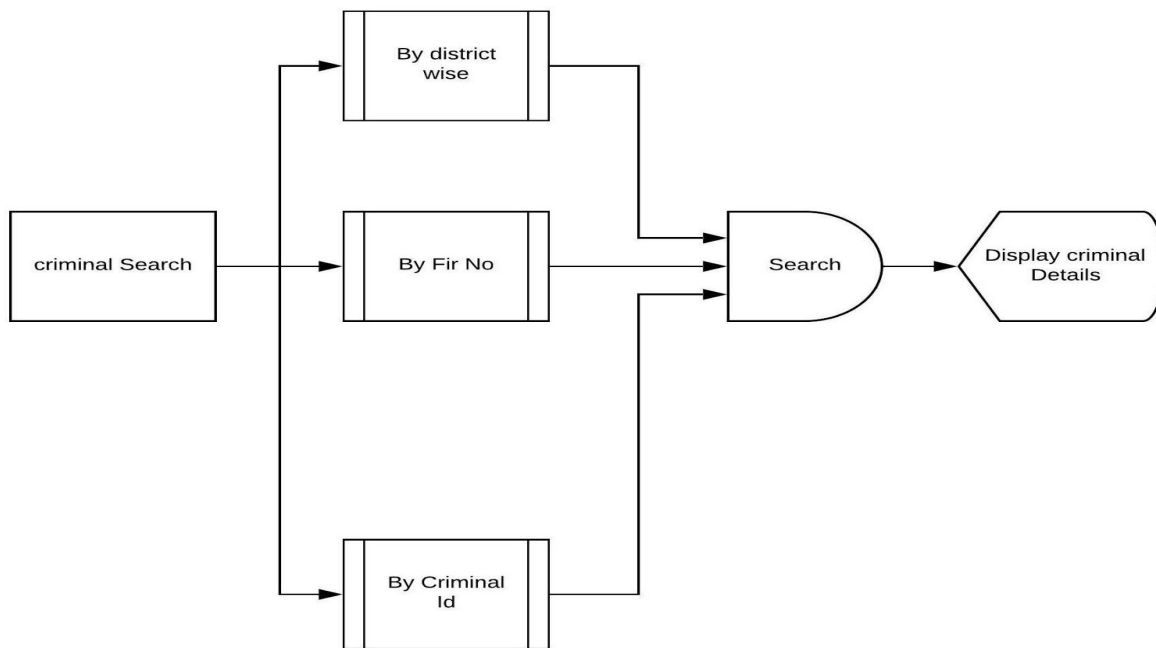


### 1.)Criminal Search:

This page show criminal search on the basis of 3 ways

- a.)criminal search based on district
- b.)criminal search based on fir no
- c.)criminal search based on criminal id





**FLOWCHART OF CRIMINAL SEARCH**

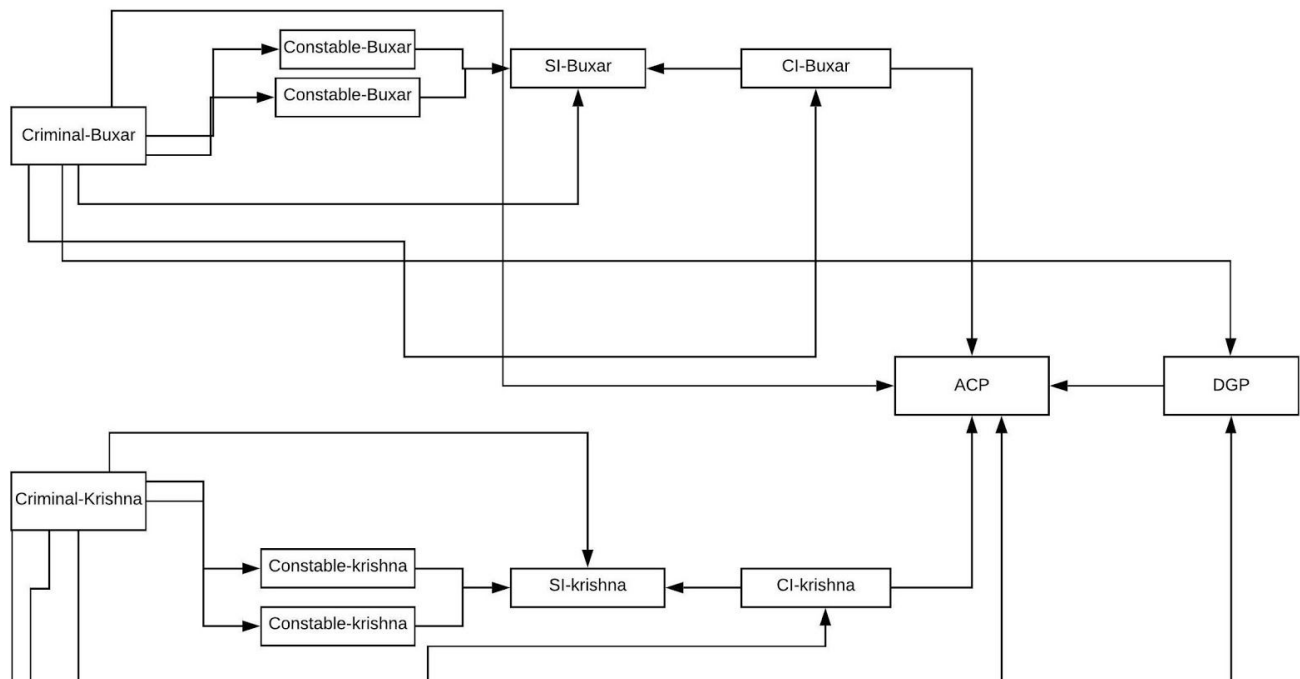
## 2.)Add a Criminal:-

This page allows the police to add details of the criminal in which signature of him is already included which cant be changed and there will be a dynamic menu option done using ajax,jquery,mysql,php.

The screenshot shows a web browser window displaying a form titled 'Add a Criminal'. The browser's address bar shows the URL 'localhost/ecops/addcriminals.php'. The page has a dark header with the 'e-cops' logo, an Indian flag, and a user profile for 'Hello Mr.Kamesh' with a 'Logout' link. A yellow sidebar on the left contains a menu with options: Home, Virtual Police Station, Complaints, Information Sharing, Magistrate, View FIR, and Criminals. The main content area is light green and contains the 'Add a Criminal' form. The form fields include: Name (text input), District (dropdown menu), near police station (dropdown menu), FIR No. (text input), Date of crime occurrence (text input), Place of occurrence shown by (text input), and Address (large text area). The form is currently empty.

### 3.)List of Criminals:-

This page displays the details of a list of criminals present in his/her area in hierarchical way as shown in below flow chart.



### FLOW CHART OF LIST OF CRIMINALS

**e-cops**  
security, faith, peace

**Activity**

- Home
- Virtual Police Station
- Complaints
- Information Sharing
- Magistrate
- View FIR
- Criminals

**List of Criminals**

Criminal id: 6

Name Of Criminal: harsha

Disriect: Buxar  
Near Police Station: Buxar

Fir No: 11  
Date Of Crime Occurance: sss

Address Of Crime Occurance: Dr no 23.18.20a.2 floor,kota bhavan,vyakaranamvaristreeer,s.n.puram,Vijayawada  
Motive Of Crime: qqqqqqqqqq

Witness Name: sssssssssss  
Witness Address: Sone a hostel ,room no 226,rollno1806097,nit patna Nit road, PATNA, BIHAR 800005 India  
Phone number: 9381225838

Investigating Officer Name: Kamesh  
Designation Of Officer: DSP

Investigating Officer Id:  
1

Investigating Officer record date: 31-10-19

### **Technologies Used:-**

1. HTML
2. CSS
3. JAVASCRIPT
4. JQUERY
5. AJAX
6. PHP
7. MYSQL
8. w3.css

### **User Interface Priorities:-**

1. Professional Look and Feel
2. Use of AJAX in Forms
3. Browser Testing and support for IE, MOZILLA, CHROME

### **Future Work:-**

- Biometric Authentication(Face Detection and Fingerprint)
- predicting Criminal Faces in various Conditions using Digital Image Processing via Face points.
- Exporting FIR Copy to PDF Format

### **Summary:-**

This Website is designed in such a way that both citizens and police can access based on their respective requirements such

#### **CITIZENS:-**

Citizens can be able to do payments for e challan, filing complaints, various application forms such as passport, driving license and can be able to check the passport status and many more

#### **POLICE:-**

Police can be able to manage their administration easily by following features like view FIR, FIR writing, information sharing(send, receive), criminal search, complaints checking, criminal addition and updation, areas under control etc

## References:-

- ❖ [www.w3schools.com](http://www.w3schools.com)
- ❖ [www.stackoverflow.com](http://www.stackoverflow.com)
- ❖ [www.javatpoint.com](http://www.javatpoint.com)
- ❖ <https://www.lucidchart.com/>
- ❖ HTML 5 Black Book ,DT Editorial Services dreamtech press.
- ❖ Web Technology,Uttam Kumar Rao ,Oxford University Press.