

# My Mission City Without Crime

September 14

# 2008

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## Ambidextrous

SRS Version 1.0

Team Guide

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## REVISION HISTORY

Date	Version	Description	Author
14/sep/2008	1.0	Synopsis	Ambidextrous

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# Software Requirements Specification

## 1.0 Introduction

**My City Without Crime** – is an E - Police Station which can maintain the records of crime like FIR, criminals' details and police dept administration.

### 1.1 Purpose

Conventionally the citizen has to go to police station in person to make complaints. Here we have provided a facility where citizen can make emergency complaint and the corresponding police officer gets an immediate SMS and responds to it. Also the citizen can make a report missing persons, report missing valuables and can report about wanted criminals. And the police department administration can be done online.

### 1.2 Scope

- Create different employees and assign corresponding privileges.
- Maintain a centralized database to provide security to information which can be accessed only by the admin.
- Employee logs on to his account to view complaints and files FIR which is sent by citizens.
- Creating dynamic employees like Inspector, Head constables and other officials as the first time setup.
- Supervision of lower designation officers by higher designation officers. This customizable feature allows admin user to create required amount of employees
- Transfer employee and promotion feature.

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- Maintains history of the employee's right from the date of join to his retirement. Also the retired employee record is also maintained.
- Track all the employees, citizens and their contact details.
- All users are authenticated to avail the service.
- Confirmation link is sent to the new user and employee when signing up.
- Java client facility for working officers.
- Chat facility is available for working officers.
- FAQ section is also included for users benefit.

### 1.3 Definitions, Acronyms and Abbreviations

- **Admin** – Administrator (super user), he is the controller of all the employees, citizens and maintaining all records of the citizen and employees.
- **Employees** – Director General of Police, Superintendent of Police, Inspector, Sub Inspector, Head Constable and other officials who are working in police department.
- **Citizen** – End users, those who only registered in this site.
- **Detectives** – Private and Police detectives (CID) who help in police investigation.
- **HTML** – Hypertext Markup Language is to create static websites.
- **J2EE** – Java 2 Enterprise Edition is a programming platform and it is the part of the java platform for developing and running distributed java applications.
- **WAS** – Web sphere application server community edition is an application server that runs and supports the J2EE and web service applications.
- **RSA** – Rational Software Architect is a designer toolkit which is designed for develop more complex projects by providing fully dynamic web service.
- **DB2** – Database 2 is the database management system that provides a flexible and efficient database platform to erect strong on demand business applications.

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- **XML** - Extensive Markup Language used for data transfer and XML is stored naturally in DB2
- **EJB** – Enterprise java bean, it is architecture for the development and deployment of transactional, distributed object applications-based, server-side software components.
- **HTTP** – Hypertext transfer protocol is a transaction oriented client/server protocol between web browser and a web server.
- **HTTPS** – Secure hypertext transfer protocol is a hypertext transfer protocol over secure socket layer.
- **TCP/IP** – Transmission control protocol/internet protocol is the communication protocol used to connect hosts on the internet.

## 1.4 References

- IEEE SRS format
- Project specification requirement (provided by IBM)

## 1.5 Technologies to be used

- **HTML** – Hyper Text Markup Language
- **Java Script** – Script Language
- **XML** – Extensive Mark Up Language
- **JAVA** – Application architecture
- **J2EE** – Application architecture
- **EJB** – Enterprise Java Bean
- **AJAX** – Asynchronous Java script And XML
- **Web Services, SOA** – Service Oriented Architecture

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## 1.6 Tools to be used

- **RSA** – Rational Software Architect 7.0
- **DB2 9** – Database
- **WAS** – Websphere Application Server 6.0
- **TSM** – Tivoli Storage Manager
- **Lotus Forms** – Xforms

## 1.7 Overview

SRS includes two sections overall description and specific requirements

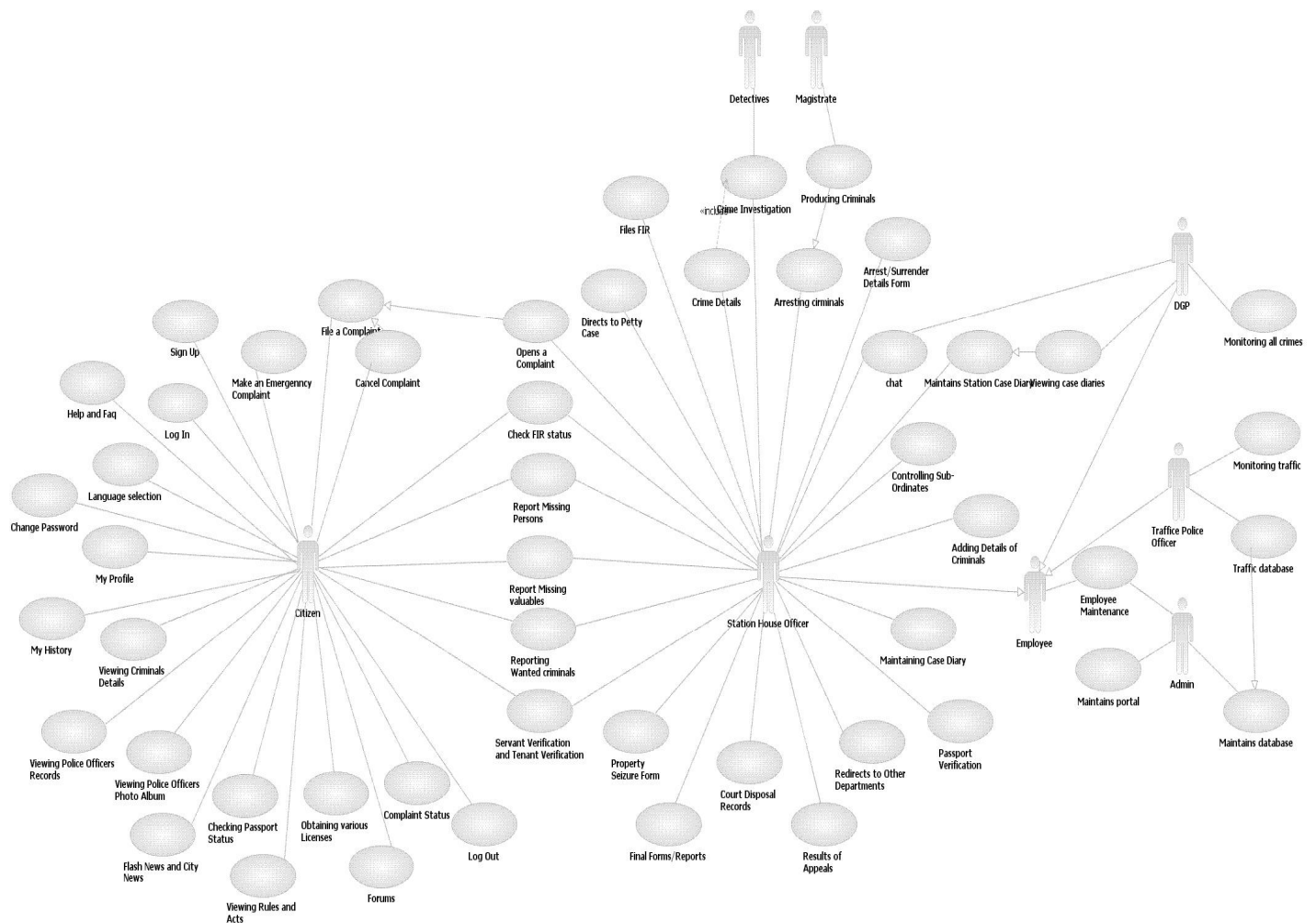
Overall description will describe major role of the system components and interconnections.

Specific requirements will describe roles & functions of the actors.

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## 2.0 Overall Description

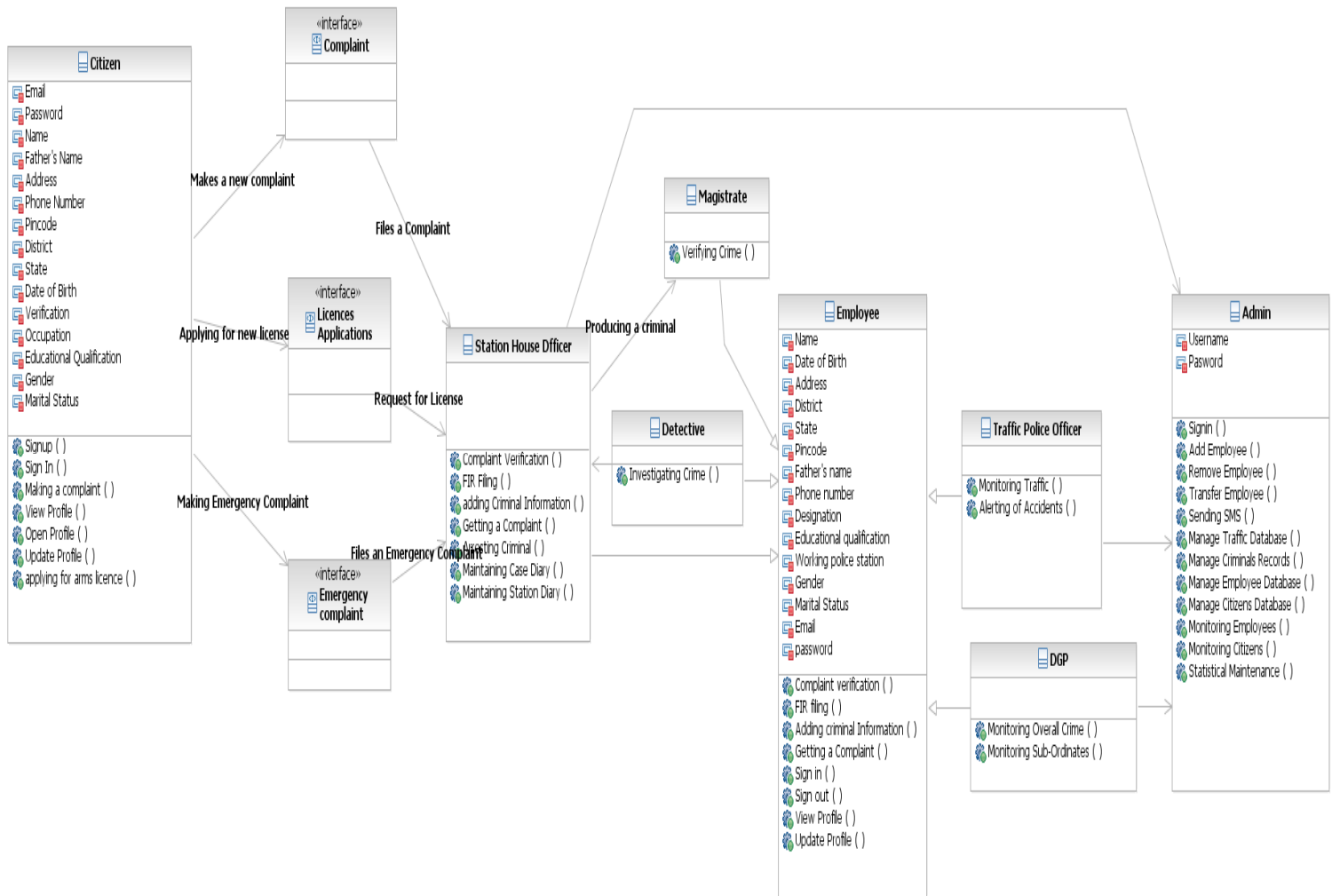
### 2.1 Use-case model survey





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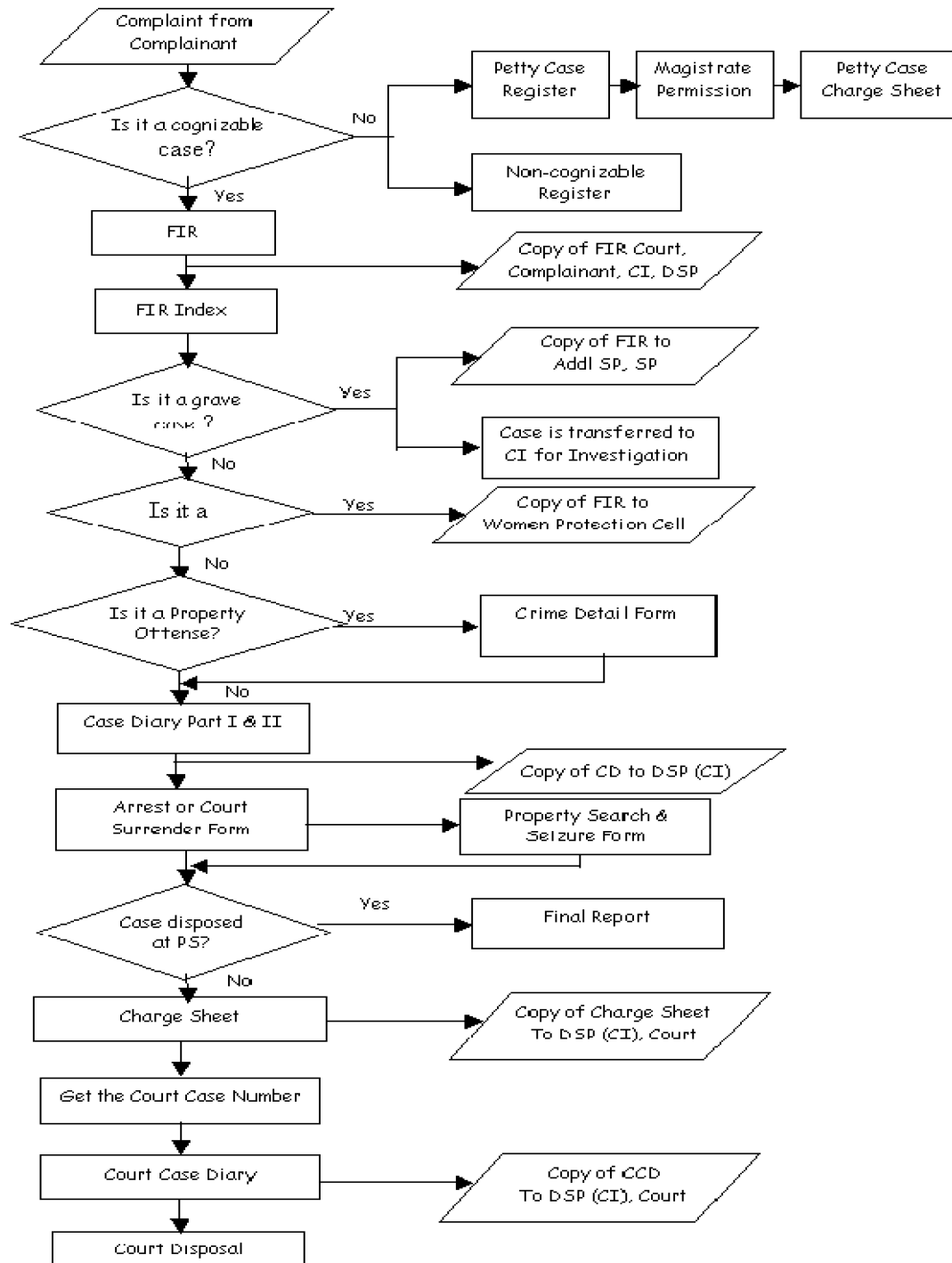
## 2.2 CLASS DIAGRAM



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## 2.3 Activity Diagram

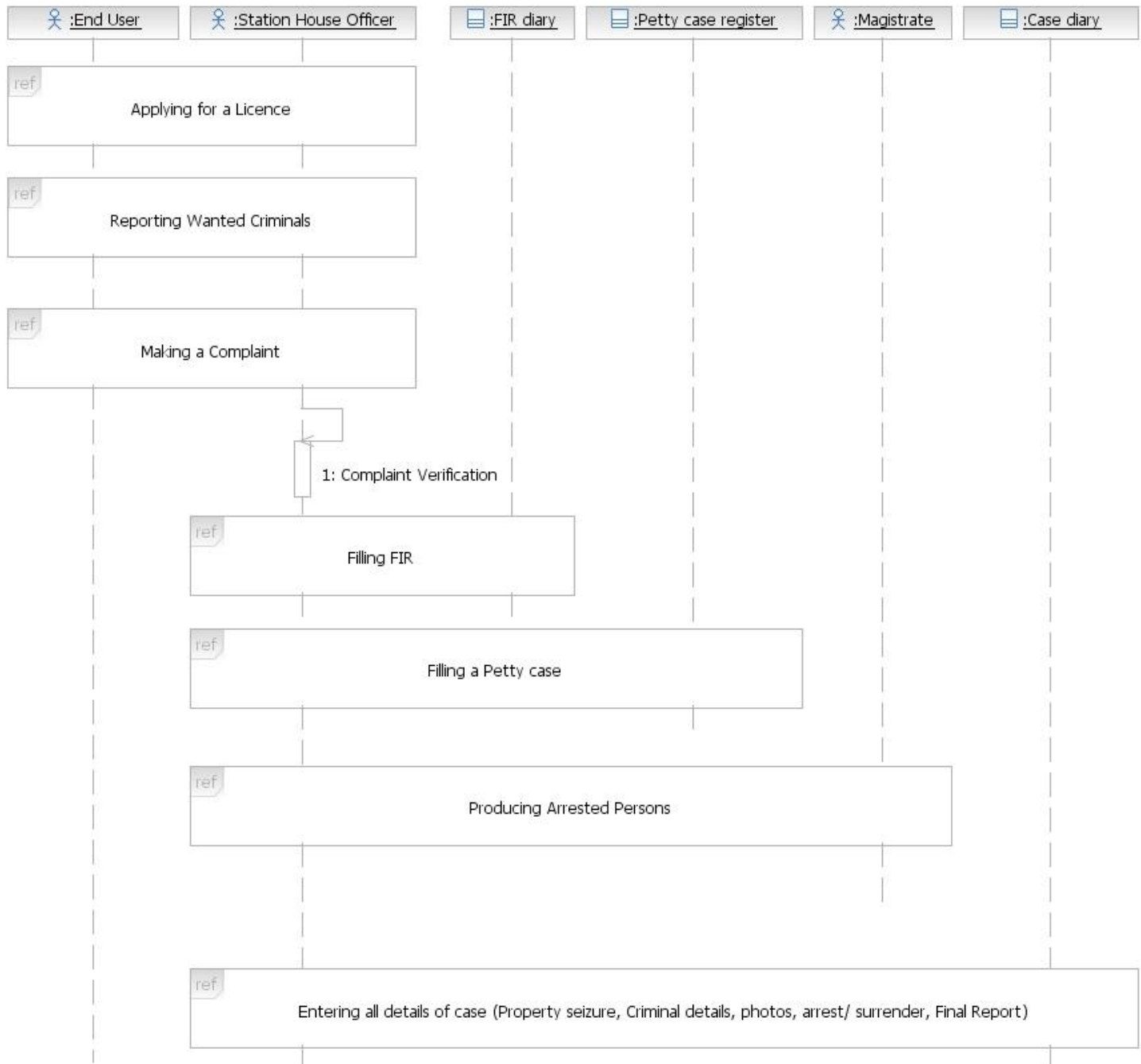
**Flow Chart Showing Case Progress in Police Station (PS)**



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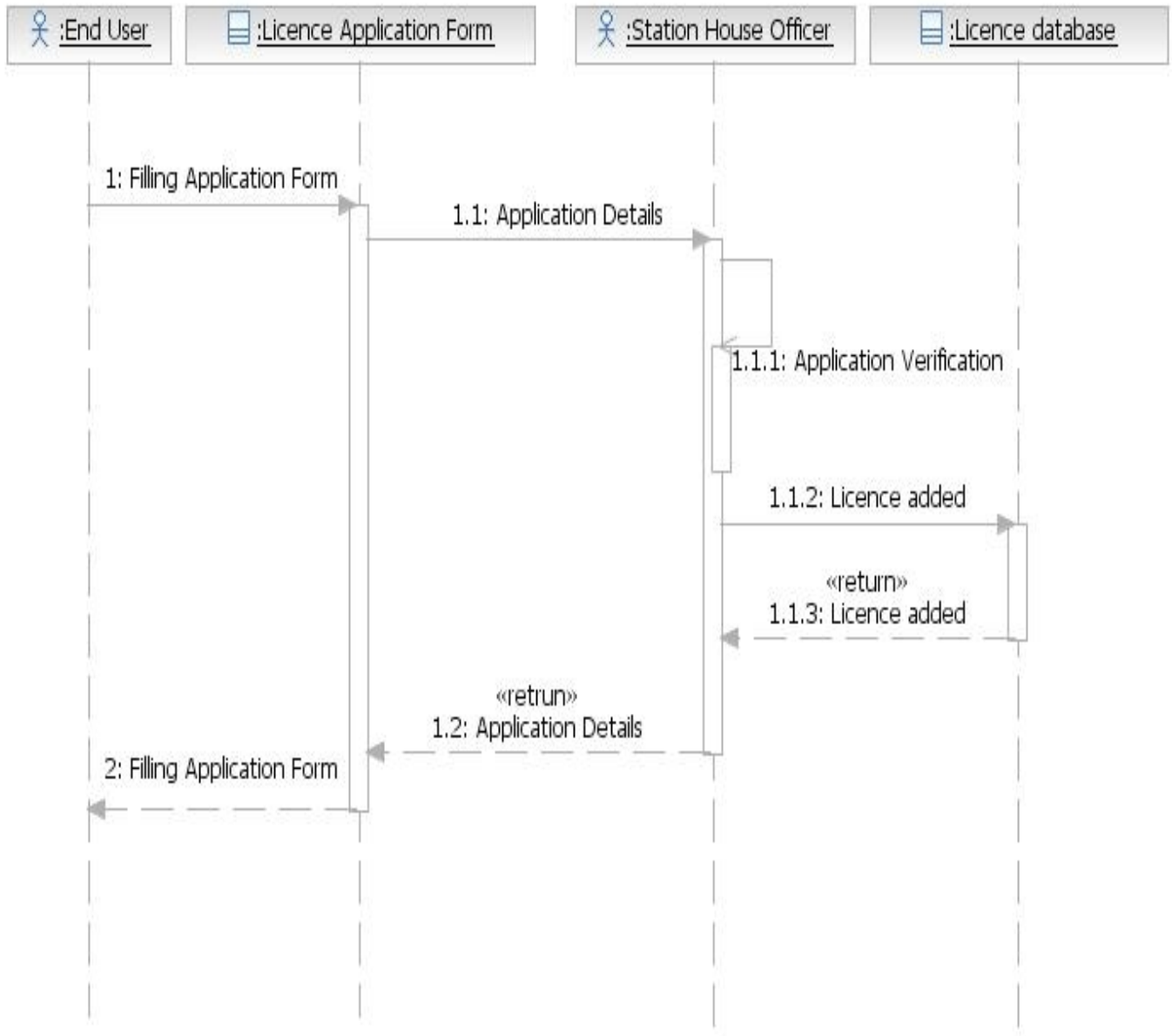
## 2.4 SEQUENCE DIAGRAM

### Case 1 : NORMAL FLOW FOR COMPLAINT, FIR FILLING AND INVESTIGATION PROCESS



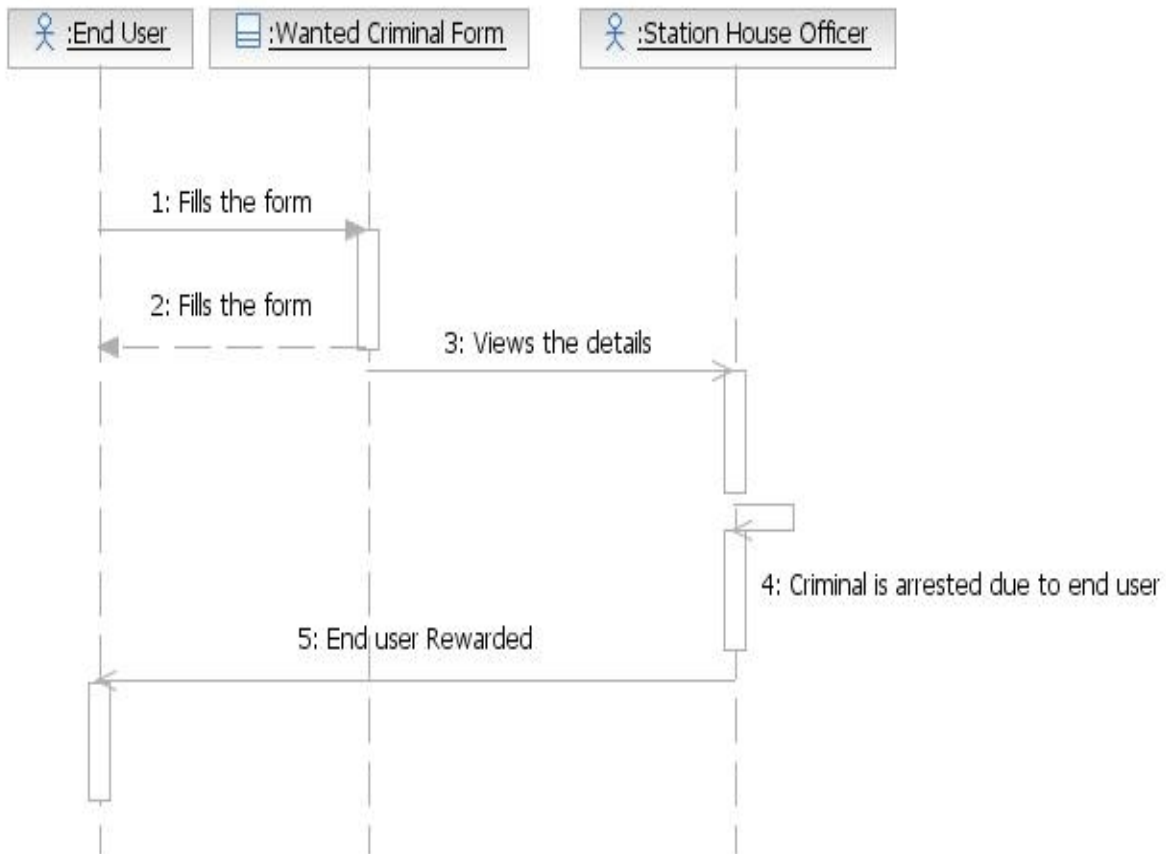
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## Case 2: APPLYING FOR LICENSE (ARMS / Loud Speaker / Browsing Centre)



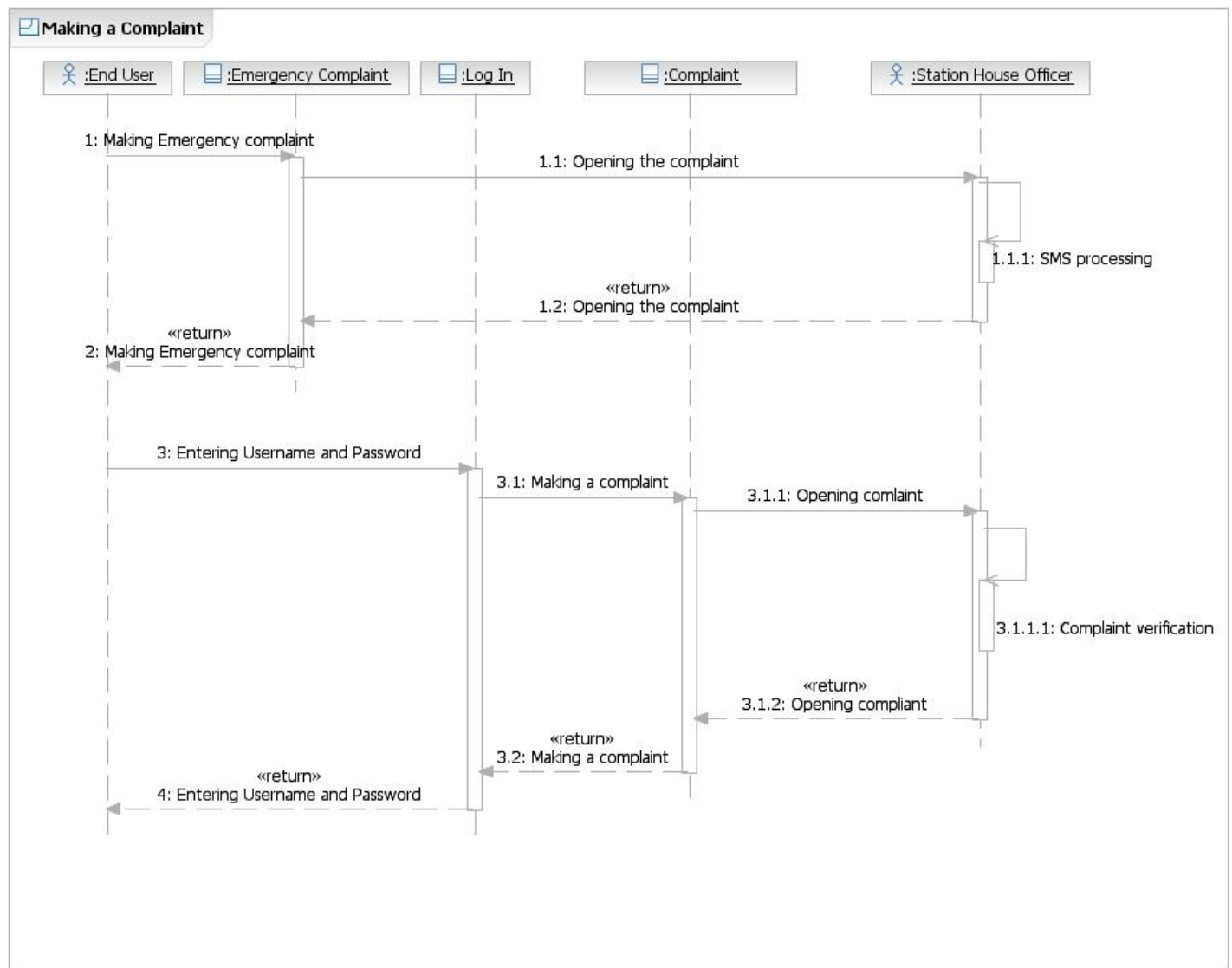
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### Case 3: REPORTING WANTED CRIMINAL



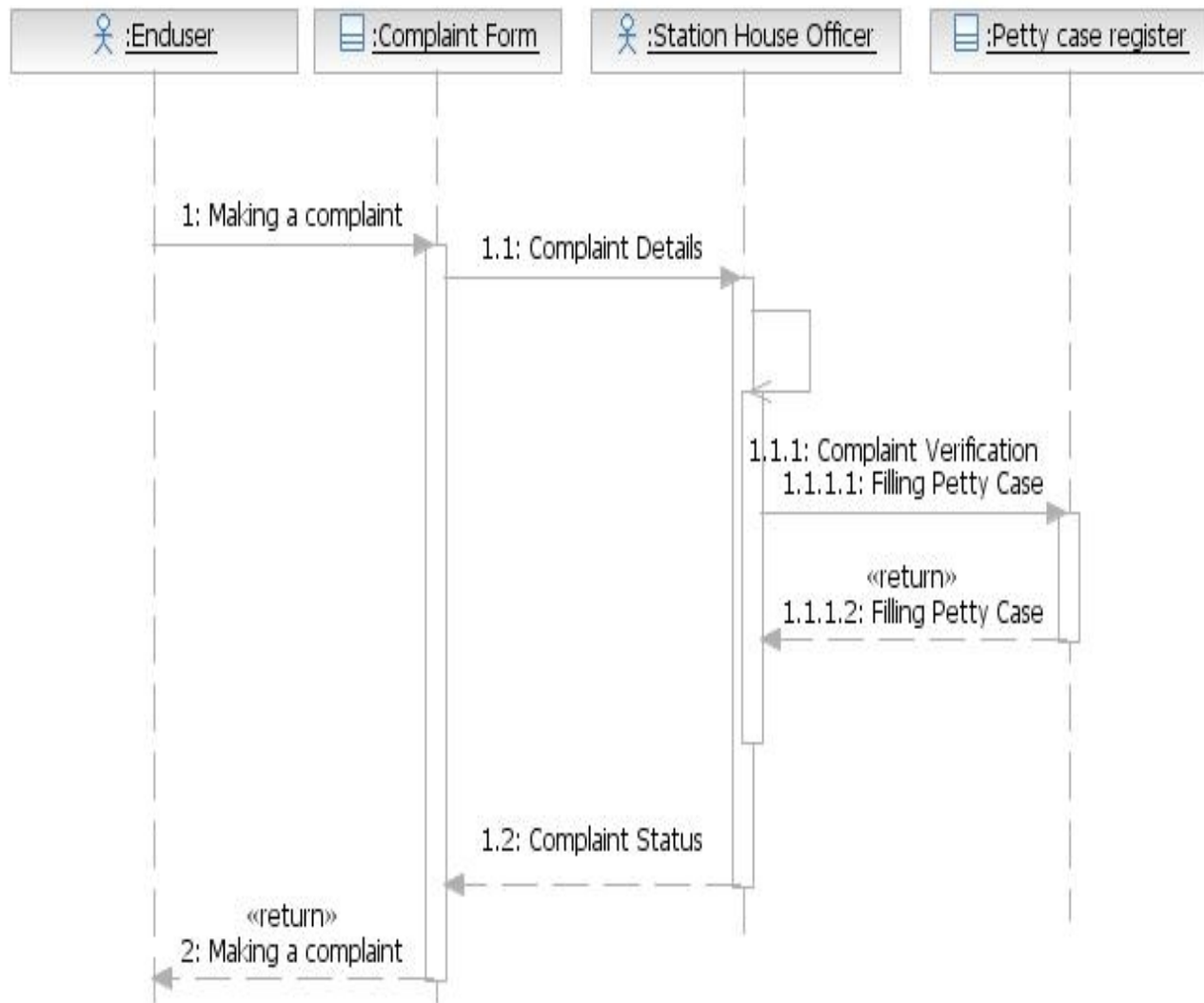
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## Case 4: Making a Complaint



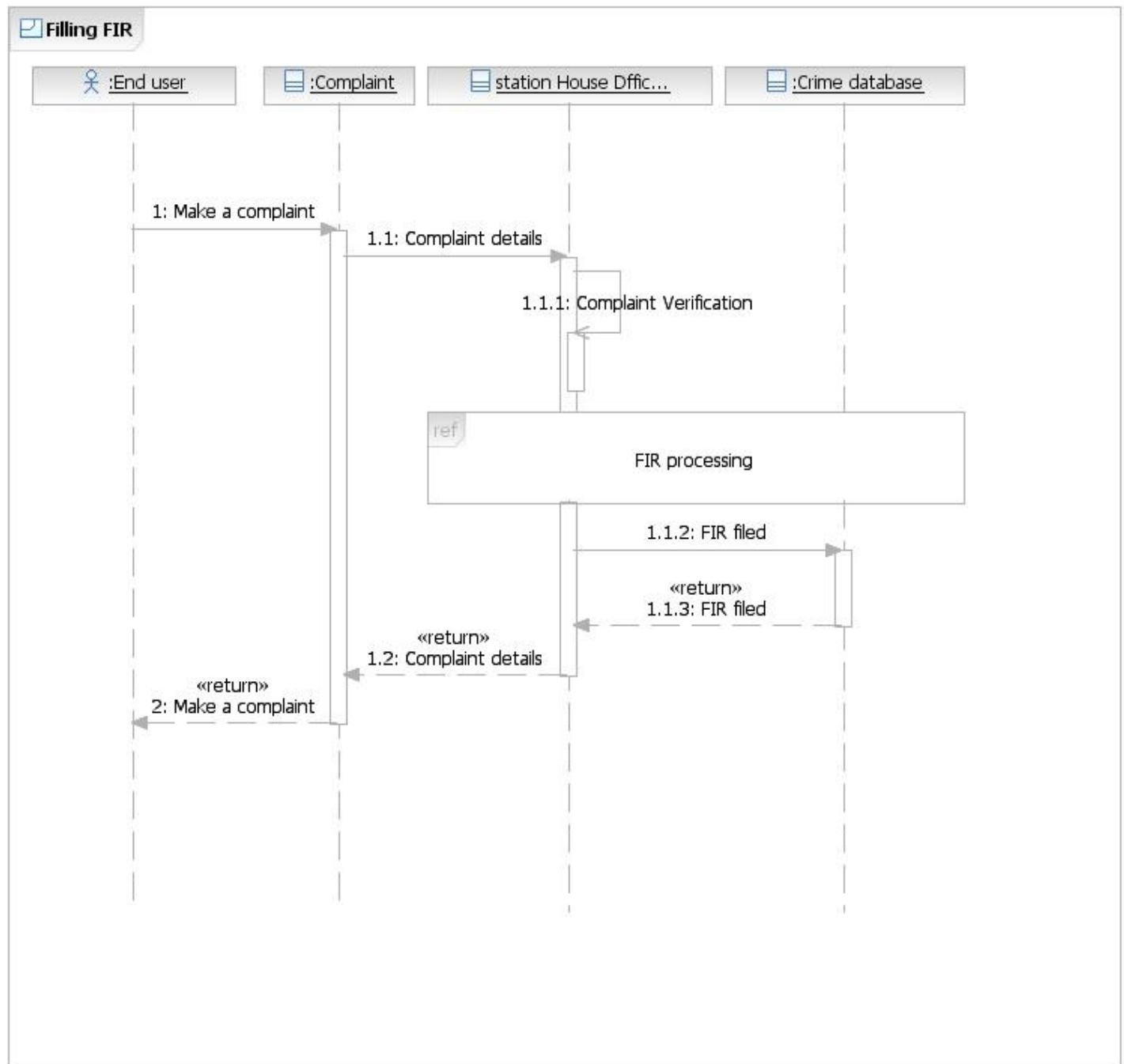
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## Case 5: Filing Petty case



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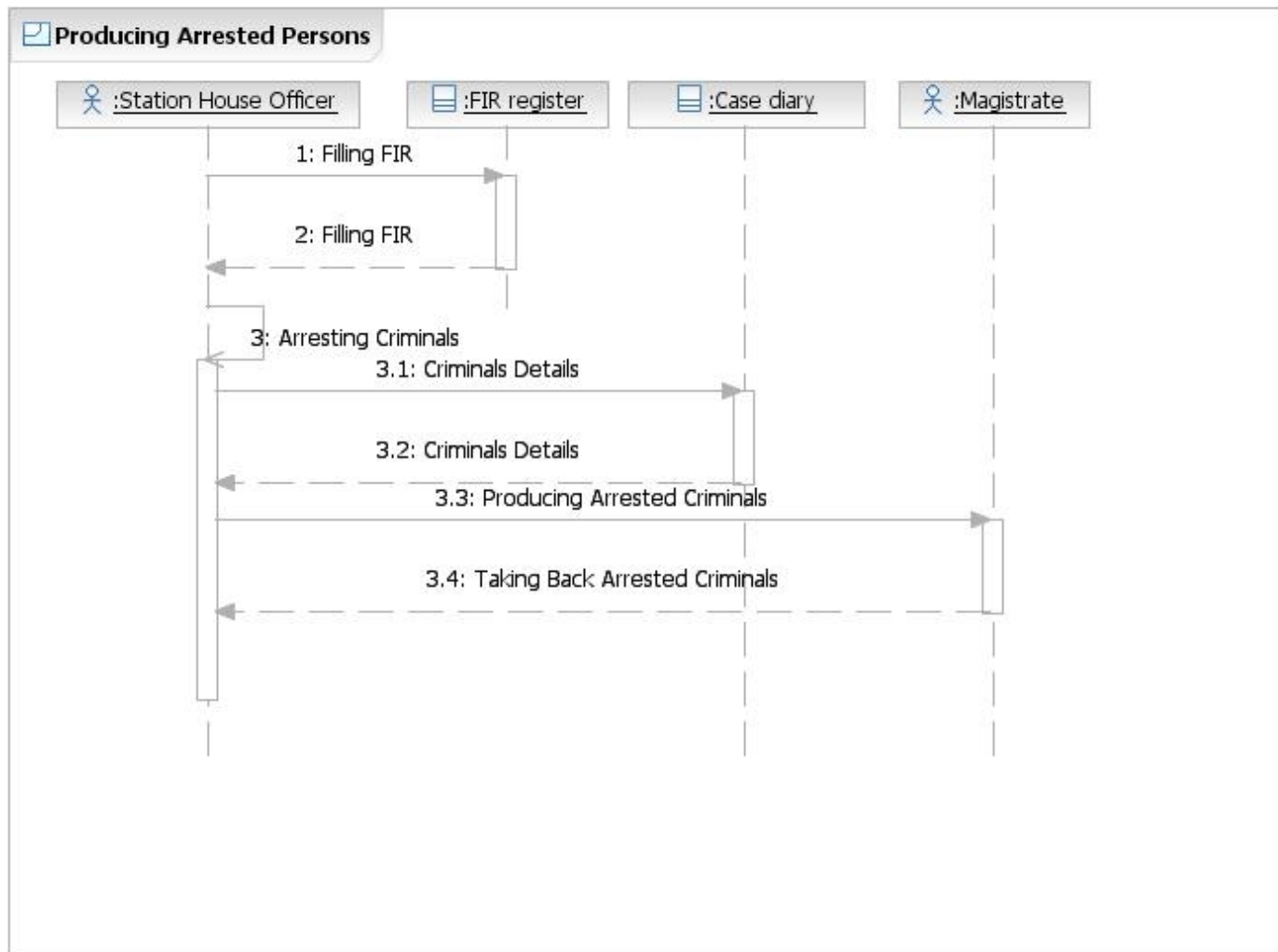
## Case 6: Filing FIR





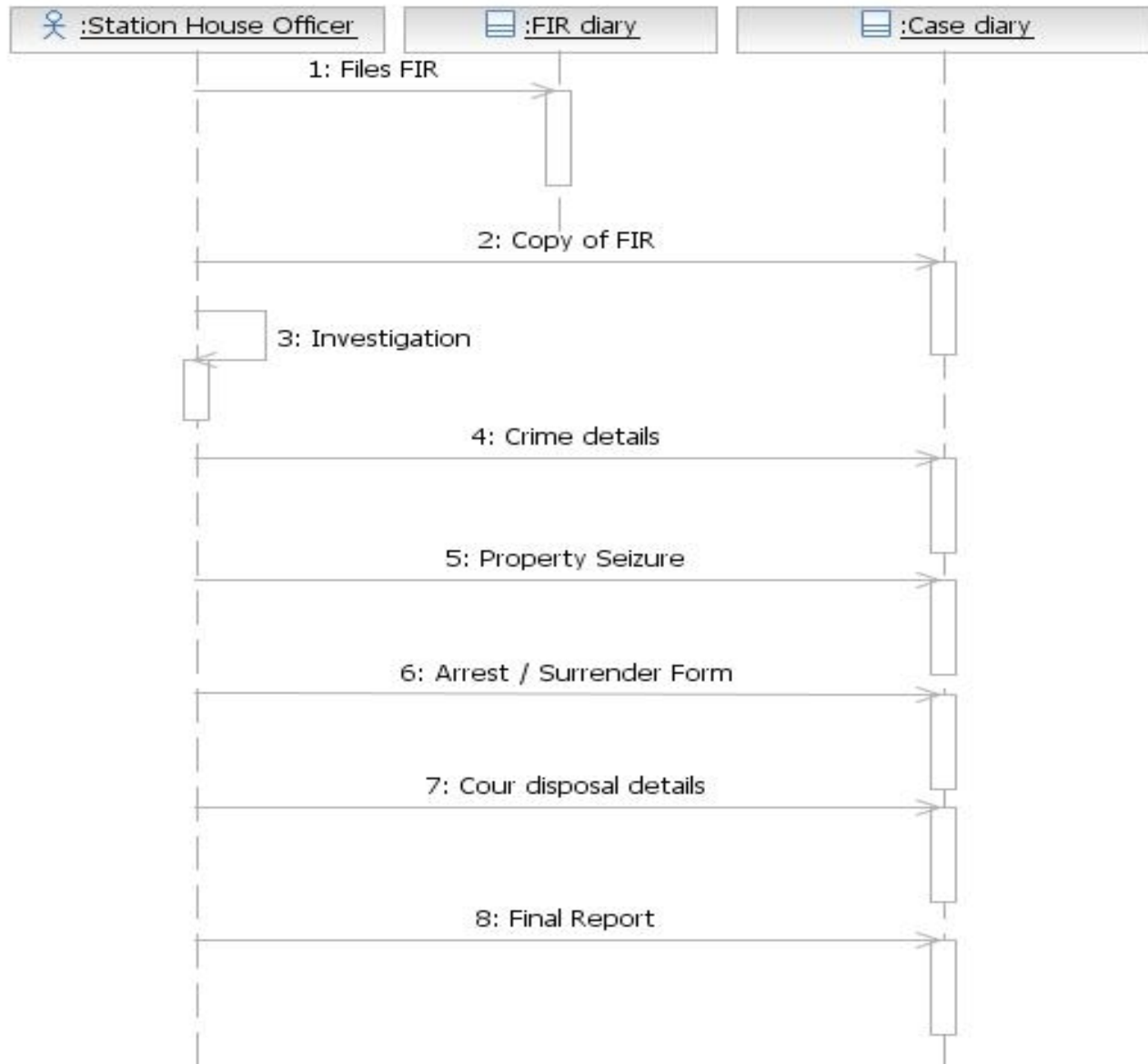
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## Case 7: Producing Arrested Persons



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## Case 8: FIR Processing





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## 2.6 Assumptions and Dependencies

- The end user should have a basic knowledge of English and computer usage
- The end user should be able to scan the required documents and upload while applying for various licenses and for creating account.

## 3.0 Specific Requirements

### 3.1 Use-case reports

#### End user

##### ● Sign up

In order to apply for various certificates such as birth, community, income and ration card, and end user must sign up by filling the sign up form and get it approved by admin.

##### ● Sign in

After getting the username and password, end users can log on to their account and can access the website.

##### ● Open profile

End user can open their profile which contains the personal details which he/she provided during sign up.

##### ● View profile

End user can view their profile which contains the personal details which he/she provided during signup.

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### ● **Update profile**

End user can update their profile which contains the personal details which he/she provided during sign up if any update required.

### ● **Request for License**

End user who signed in can request for various licenses such as arms, loud speaker, browsing centre, lodge, video, meetings and gymnasium.

### ● **Open requested license forms**

End user who signed in can open the requisition form and after viewing it he/she can close the form without filling the details.

### ● **Enter details**

End user who signed in can open the requisition form and enters the mandatory details required in that form.

### ● **Submit form**

After filling the mandatory and other details, End user submits the form.

### ● **Make an Emergency Complaint**

End user can come to the portal can make an emergency complaint directly and an SMS will be sent to the corresponding area Inspector.

### ● **Make an Complaint**

End user who signed in can complaint a crime as an complainant or informant.

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### ● **Report Wanted Criminals**

End user who signed in can report about the wanted criminals and can collect the rewards from the government.

### ● **Report Missing Valuables and Persons**

End user who signed in can report about the missing valuables and can collect the rewards from the complainant if applicable.

### ● **Discussion Forum**

End user can discuss with other registered members in the portal and also with police officers.

## **Constables**

### ● **Sign in**

First the constables must login to his/her account to start his work.

### ● **Verifying for any new registration**

The officer who has logged in can view the new citizen registration in his locality.

### ● **Accepting new registration**

Constable can accept the new registration depending upon the details enclosed by the end user.

### ● **Declining new registration**

He can also decline if the details enclosed are illegal or not correct.

### ● **Viewing Complaints**

He can read the complaints that are made by the registered end users of the portal.

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### ● **Redirecting Complaints**

Constable has to decide whether the complaint is cognizable or non-cognizable and so he can file a petty case or make an FIR or he can redirect it towards to higher officials in the case of serious complaint.

### ● **Viewing License applications**

Constable can view the License application and can verify.

### ● **Accepting License application**

Depending upon the attachment, the application is accepted and the license is issued.

### ● **Rejecting License application**

In case of any errors in attachment, the application is rejected.

## **Station House Officer:**

### ● **Sign in**

First the Station House Officer has to login to his account to start his work.

### ● **Investigation**

He investigates grave crimes and other complaints

### ● **Arresting criminals**

He arrests the criminals who are involved in the crime and produces to the magistrate. And the arrested criminal details are added to the criminal directory

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### ■ **Property Seizure**

If the case involves property seizure, he can seize the property and can keep in secured place.

### ■ **Maintaining case diary**

He writes the investigation details in the case diary including arrested criminals, property seizure, final report and appeal results of the case.

### ■ **Supervise sub-ordinates**

It is the duty of Station House Officer to supervise the work of his subordinates like constables and head constables and he has allocate proper work to them.

### ■ **Chat with officers**

He can chat online with other officers in case of emergency. Also they can transfer criminal details, case diaries and other important documents.

### ■ **Replying in Discussion Forum**

He can take additional work by replying to the questions in the discussion forum.

### ■ **Adding Criminals Details**

He can add the details of criminals in the criminals' directory which is useful for the end users and also for police officers while arresting them.

### ■ **Responding to SMS**

When an Emergency complaint is made by an end user an SMS is sent to the respected station house officer and he has to take necessary action in response to the complaint.



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### **Giving any Emergency News**

He can give any emergency news and warnings to the end users which will be displayed on the portal and SMS can be sent in case of much important news.

## **Detectives**

### **Sign up:**

In order to enter the additional crime details, the detective has to sign up

### **Sign in:**

After getting the username and password, Detective can log on to their account and can access the website

### **Additional Crime details:**

The detectives provide additional crime details to police investigation and help in resolving the crime.

### **Chat with officers**

He can chat online with other officers in case of emergency. Also they can transfer criminal details, case diaries and other important documents.

### **Replying in Discussion Forum**

He can take additional work by replying to the questions in the discussion forum.

## **Traffic Police**

### **Sign in**

First the traffic has to login to his account to start his work.

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### ■ Adding traffic details

After signing in, the traffic police can enter the details of traffic.

### ■ Memo Entry Form

After signing into his account, he does the final verification for providing ration card.

## Magistrate

### ■ Sign In

Magistrate has to be signed in with his login details to start his work

### ■ View Profile

Magistrate can view the personal profile and working profile.

### ■ Update Profile

Incase of any change in the profile he can change the details using update profile

### ■ Giving arrest warrant to criminals

He can provide arrest warrant to the criminals who have been produced by police officers.

### ■ Appeals

He can add the results appeals made by the complainant or criminal and he can also maintain the results of appeals.

### ■ Final Judgment

He can enter the details of final judgment which is also recorded in case diary.

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### ■ Chat with officers

He can chat online with other officers in case of emergency. Also they can transfer criminal details, case diaries and other important documents.

### ■ Replying in Discussion Forum

He can take additional work by replying to the questions in the discussion forum.

## Director General of Police

### ■ Sign In

He has to first sign into the client to use the service

### ■ View Crime Statistics

He can view the crime details, criminal details, types of crime committed in particular year, bar chart of crime reports, pie chart of crimes and other statistical data.

### ■ Supervising

He can also view all the Police officers details and the work done by them and he can award promotions depending upon the work by online.

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## Administrator

### ■ Verify details:

Admin authenticates all the end users and officers by checking their username and password.

### ■ Provides login account:

After getting the sign up details from the end user, Admin provides the username and password to the end user that should be kept for future login and also admin checks for uniqueness.

### ■ Maintains system server:

Admin maintains the centralized system server which controls the client computers.

### ■ Maintains database:

Admin maintains the entire database and he is the only authorized person to add/remove/edit employee records and end user records provided he has to get the order from the highest designation officer.

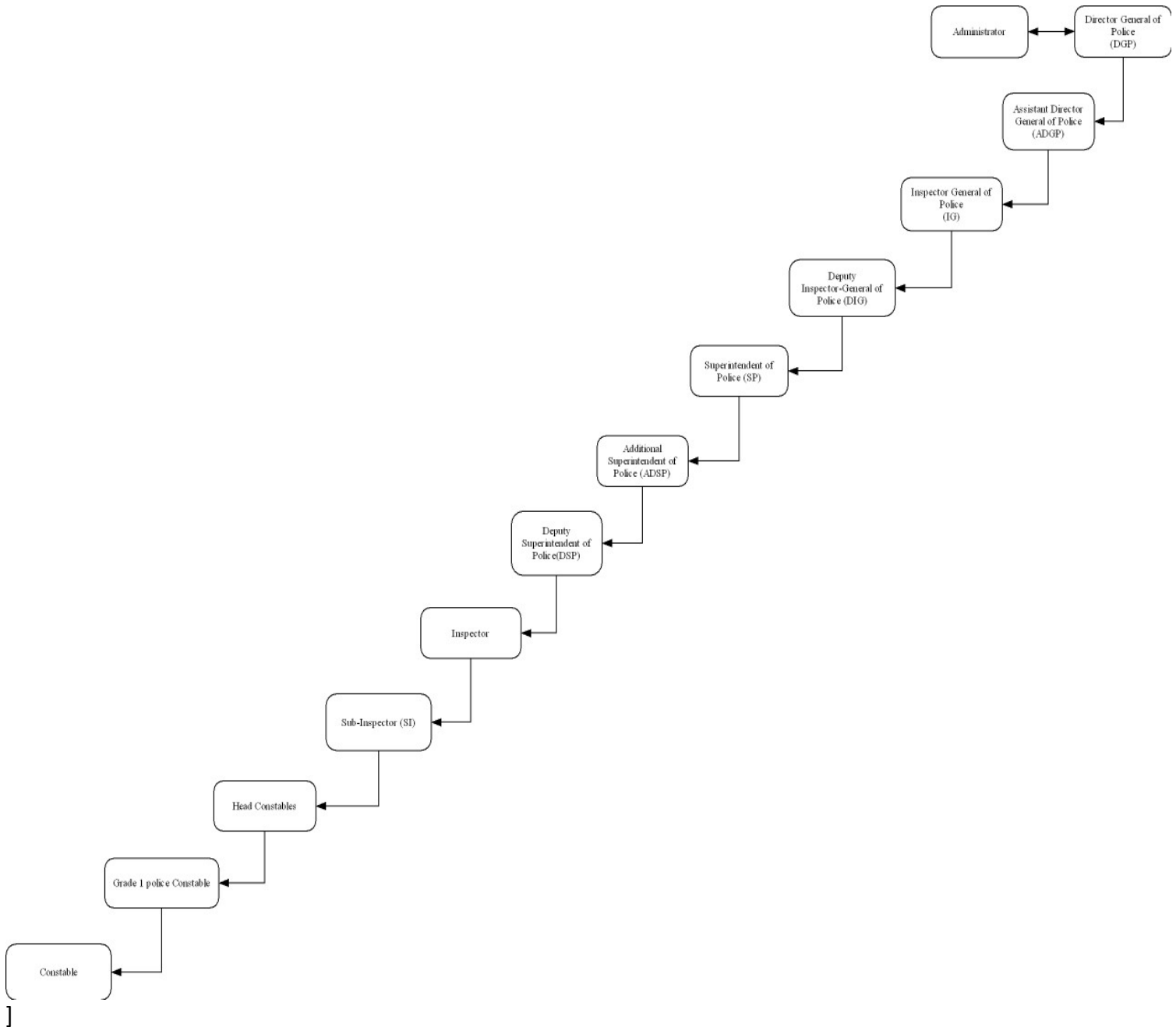
### ■ Add crime details

Admin adds the crime details which are given by the Station House Officer at various times of investigation. Admin maintains the entire details of the case including property seizure, arrest/surrender and final report

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## Organizational Chart

Admin appoints employee in following order



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