

APRIL-MAY 2018



**GPS Assisted Location Based Services for Smart City with
Cloud Integration**

Software Requirement Specifications

Group - 24

Requirement Analysis :

When it comes to Traffic Violations, the biggest problem faced by the Traffic Police is communication on a single level. Police are not able to communicate with each other and due to this the amount of violations increase tenfold. They are not able to track the violators and they don't have a proper database which can be accessed by the police from any location. Our application focuses on such problem and gives a single platform to all the police so that they can communicate effectively and keep a track record of all the violators and track them whenever necessary. It will also analyze the data which will help them to gain knowledge about the area wherein the most accidents occur and where most traffic laws are broken.

Functional Specification :

- **Scenarios :**

Consider a scenario where a person violates the traffic rule, according to the current scenario his number plate will be noted and the crime will be added to the website where the user will have to pay the fine. The police will have no chance of knowing or tracking the person again, he is free to commit any other crime. So let's be honest we knowingly or unknowingly must have violated some or the other traffic law and yet have not paid our fine. In such a scenario the police a common

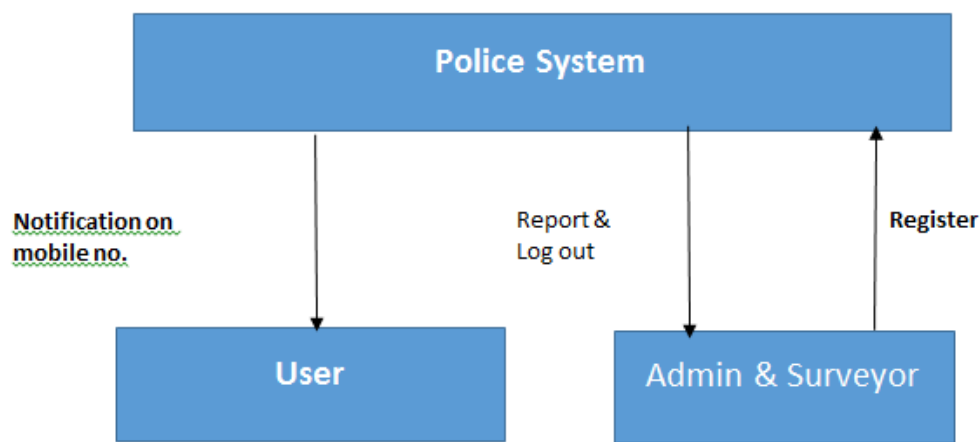
platform where they can not only track the person but also keep a record of the data and analyze it when necessary. This app will run on all the android version since not all the police officials have the latest android version. Everyone from the police officials to the head of traffic department can access the data. There will be an admin and also a surveyor (traffic police officials).

System Overview :

Flowchart :

Level 0 :

Level 0

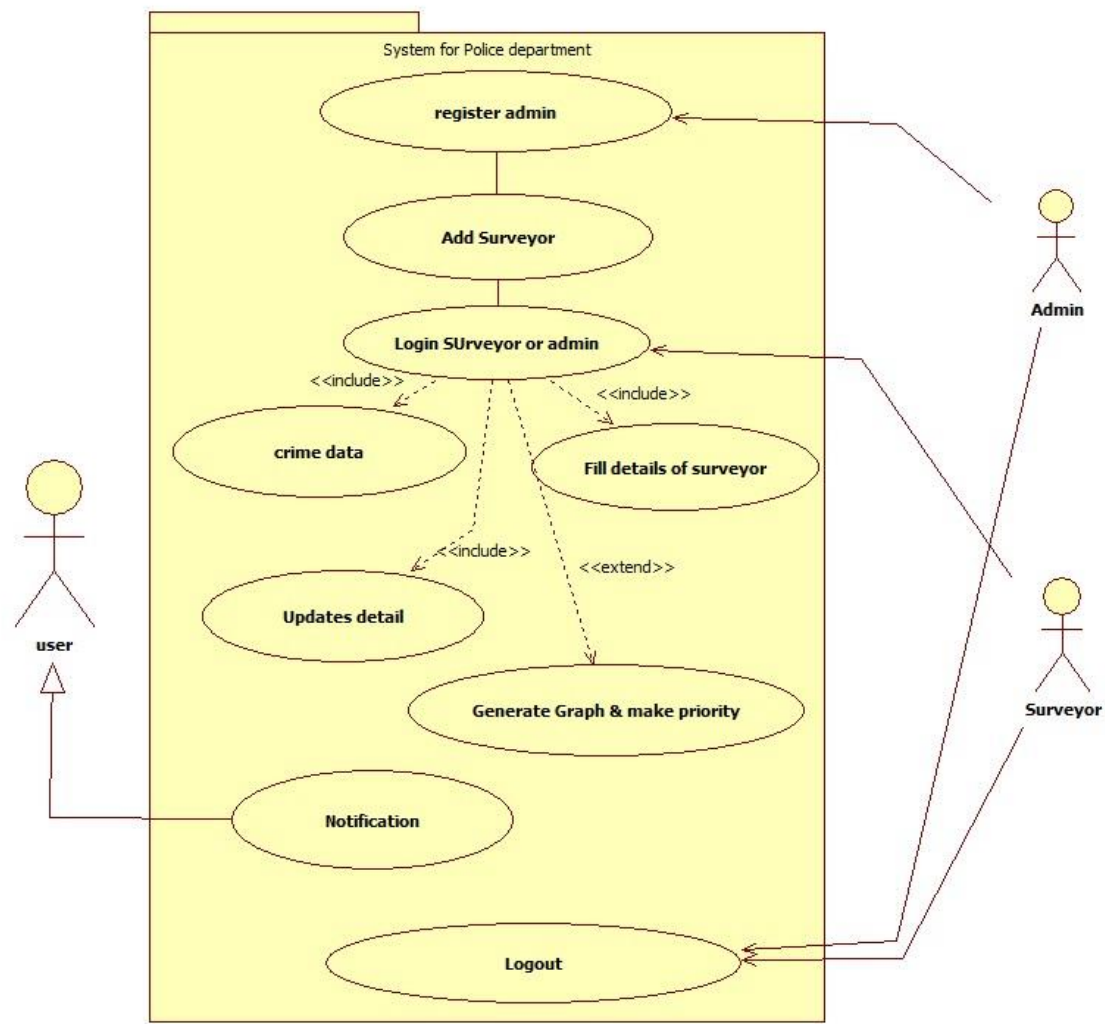


Functional Requirements :

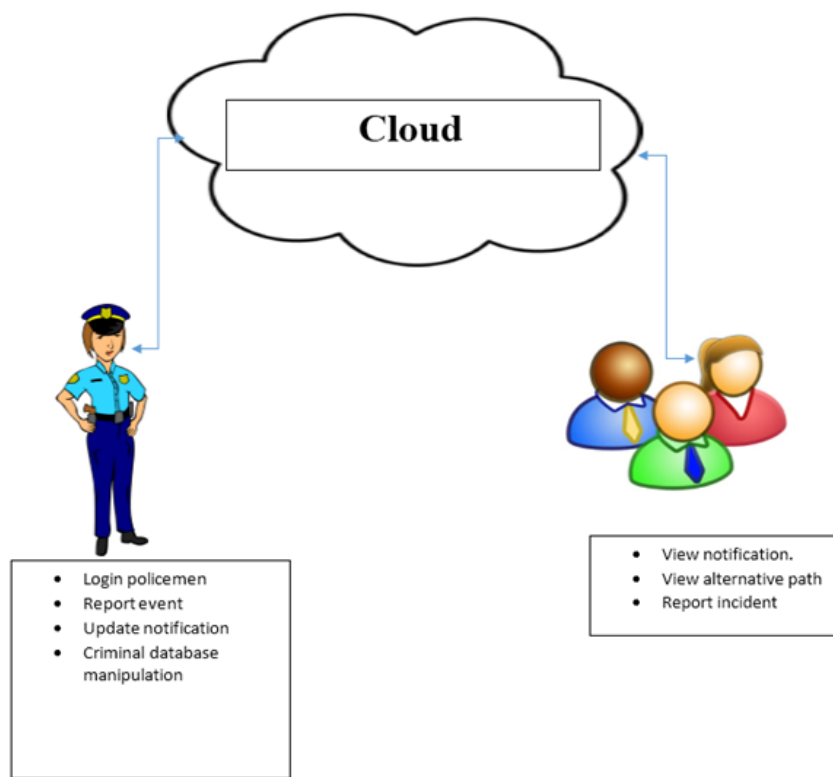
User Profiles:

- 1. Head of Police Dept.(Administrator) : He adds the Surveyor. He keeps the track of the surveyor and take corrective action on it.
- 2. Traffic Police : He logs into the app. Adds the entries of the crime.
- 3. User : The user will get the notification on his app. He can give feedback regarding the services by police official.

Use Case Diagram



User Interaction :



Technical Specifications :

- **Operating System:**
 - Android
- **Programming Languages Used :**
 - Android
 - JSP
 - HTML and CSS
 - MySql
 - Java

Versions of Various Components :

- JFreeChart
- jdk 1.8
- Eclipse
- Apache tomcat 8
- Android Studio 2.3
- ADBDriverInstaller
- MySQL Workbench 6.2 CE