GOALS

* Software system’s aim is to sensibiliser citizens to notify authority when violation occurs in order to make town’s street safer
* Decrease incorrect behaviour of people driving any kind of vehicles
* Allow authorities to better organize forces displacement (more “unsafe” area will be checked more often)
* The system should provide user possibility to notify authorities when traffic violations occurs
* Customers should be able to mine information from past report and built some statistics (more “unsafe” area, more unruly vehicles’ driver)
* Make possible cross information analysis (for ex. municipality data) to improve reliability of the service and suggest possible interventions
* Make automatic the procedure of traffic ticket generation
* System should show different details of information to different kind of users (sent traffic ticket cannot be seen by a citizen but only by authorities)

REQUIREMNT

* The system has to manage picture and some other information that make an eventual violation recognizable by authorities
* The system has to reserve some memory due to store information provided by the user
* System has to be able to recognize licence plate from images.
* System has to be able to take information about a violation and generate traffic tickets accordingly with in force (in vigore) law.
* System has to provide a sign up to user that can be so identified.
* System at some point have to convert notification into statistics also allowing users to help it with that.
* System after receiving reports have to notify authorities competent for the specific case (for ex. ambulance if needed)

ASSUMPTION

* System is supposed to be well integrated with reading plate algorithm that at this time has been already designed and is correctly working
* It’s supposed that each already uploaded notification of violation is every time correctly received and stored by the software system
* In order to avoid wrong alerts, it’s supposed that position is never immitted manually by the user but always taken by GPS sensor data
* Before sending any invoice to citizen it’s supposed the system will be “sure enough” that sanctioned violation really occurs.
* System is able to recognize (running for example photo editing tools) if images provided have been modified after users took them
* An area can be considered safe if in close zone an higher number of accidents/violation has been notified (in class diagram have to be something like **picture 1**)
* This software system is supposed to work only on devices that are able to shoot photo, connect to the Net and get geographical position through a GPS sensor.

**Picture 1**

