RASD

1. INTRODUCTION
   1. Purpose

The purpose of this document is to represent the Requirement Analysisand Specification Document (RASD).

This allow to show what are the goals and the requirements of the software.

In particular it has to represent how the application can be useful for the users that will use it and why they are fundamental to improve the quality of the service offered.

* 1. Scope

1.2.1) Description of the problem

SafeStreet is a software useful to help people to be safer when they are on the street.

The users can send to the municipality pictures of violation occurring in public streets:

the reporting can concern violation on the road, in a parking and so on.

The software allows the users to send detailed informations about the violation, such as the

hour, the date, the type of violation and the position (captured with GPS).

Furthermore, the service has to provide the users other informations about the streets he is around, such as the number of violation reported in a specific street and consequently the

level of danger of the street.

In addition, the user can find on the application the most “dangerous” vehicles, that are

the ones with the highest number of reportings from the users.

The service has to be available to every type of user, such as motorists, motorcyclists, bikers, pedestrians, disabled people, etc, so it must be easy to use.

Finally, the users have to be able to receive recommendations from the system to avoid using streets, parkings that are risky in general or at a specific hour or date.

1.2.2) Goals

G1) The service allows the users to report a violation to the municipality.

G1.1) The user can send a picture of the violation.

G1.2) The user can specify the date and the hour when the violation has appened

And the type of violation.

G1.3) The system can catch the position of the violation using GPS signal.

G2) The service allows the users to have detailed informations about the violations and the

Street safety.

G2.1) The users can know which are the most reported streets, areas or parkings.

G2.2) The users can see which are the vehicles that commit the highest number

Of traffic violations.

G2.3) The users can be recommended to use safer streets/areas, etc or avoid

Dangerous ones, that are higlighted in different ways on the map.

G3) The service offers different types of interfaces and accessibility in according to the

Type of user (biker, pedestrian, rider, driver, disabled person).

G4) TODO: FUNZIONE AGGIUNTIVA

G5) The service allows the user to be registered in the system with a username and a password.

G6) A user has the opportunity to specify if he is a biker, a disabled person, a rider, etc in

Order to improve the service quality.

G7) A driver or a rider can add to his personal profile the license plate of his vehicle.