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Introduction

1.1 Purpose

The purpose of this Requirement Analysis and Specification Document (RASD) is to provide a detailed description about the software SafeStreets that we wish to develop. In particular this document is focused on important aspects that are useful during the design of the software architecture like: scope, functional and non-functional requirements, use cases and scenarios, constraints and assumption, class/sequence diagrams, limitation and interfaces with other softwares. Overall the document is a useful guide for the developers that will have to follow and implement all the necessary requirements, nevertheless it's also a document that can be given to potential customers to get them an idea of what the software will be like.

1.2 Scope

1.2.1 Description of the given problem

Overall Description

2.1 Product perspective

2.2 User Characteristics

2.2.1 Actors

- *Visitor*: a person without a SafeStreet account. Visitors can only have access to the homepage and the registration form of the mobile application;
- *User/ Mobile user*: a person correctly registered to the SafeStreet account service. Users/Mobile users can perform any of the actions made available by the SafeStreet mobile application;
- *Recognized authority*: a recognized authority (Police station/ municipality) which submitted to SafeStreet and can interact with it through its web application interface;
- *Local system administrator/Police corporal*: a person which belongs to a recognized authority, in charge of dealing police technician accounts and scheduling patrols;
- *Police technician*: a policeman encharged of dealing with the violations report. He/She patrols the unsafe areas and gives fines to the reported cars in case of violations;
- *Third party recognition service*: an image recognition service which allows SafeStreet to extract car plates from the violation report's images.

2.3 Constraints

2.3.1 Regulatory policies

2.3.2 Hardware limitations

2.3.3 Interface to other applications