



POLITECNICO MILANO 1863

Software Engineering 2 Implementation and Test deliverable Document SafeStreets

Version 1.0 - 12/01/2020

Authors:

Andrea Falanti

Andrea Huang

Professor:

Prof. Elisabetta Di Nitto

Contents

1	Introduction	4
1.1	Purpose and Scope	4
1.2	Definitions, Acronyms, Abbreviations	4
1.3	Revision history	5
1.4	Reference Documents	5
1.5	Document Structure	6
2	Implemented functionalities	7
2.1	Introduction	7
2.2	Functionalities included in the prototype	7
2.3	Functionalities excluded from the prototype	7
3	Adopted development frameworks	8
3.1	Server	8
3.1.1	Programming languages	8
3.1.2	Middleware	8
3.1.3	API	8
3.2	Client	8
3.2.1	Programming languages	8
3.2.2	Middleware	8
3.2.3	API	8
4	Testing methodology	9
5	Installation instructions	10
6	Effort Spent	11

Introduction

1.1 Purpose and Scope

1.2 Definitions, Acronyms, Abbreviations

Definitions

- **Citizen or common user:** a common citizen, without any public office, who uses the application to report traffic violations.
- **Authorities:** the public officials who certify the violations reported on the application.
- **Municipality:** the public institution that provides traffic violation data to the application, and may consult and analyze intervention suggestions from it.
- **Operator:** a person working for SafeStreets who is responsible for signing contracts with authorities and municipalities.
- **Violation:** an event that does not conform with the traffic laws and that can be reported to authorities.
- **Intervention:** a possible public intervention produced by the application aimed at solving frequent violations in some areas of the city.
- **(Report) Supervisor:** authority that have validated or invalidated a report.

Acronyms

- GPS = Global Positioning System
- S2B = Software to Be

- RASD = Requirement Analysis and Verification Document
- PEC = Posta Elettronica Certificata
- API = Application Programming Interface
- AJAX = Asynchronous JavaScript and XML
- GDPR = General Data Protection Regulation
- OCR = Optical Character Recognition
- DD = Design Document
- CPU = Central Processing Unit
- DBMS = DataBase Management system
- REST = Representational State Transfer
- SQL = Structured Query Language
- IO = Input Output
- UI = User Interface
- HA = High Availability

Abbreviations

- R_n = n-th requirement (defined in RASD).

1.3 Revision history

- Initial version 1.0

1.4 Reference Documents

- Specification document: “SafeStreets Mandatory Project Assignment”
- IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications
- RASD v1.2

- DD v1.1

1.5 Document Structure

Implemented functionalities

2.1 Introduction

2.2 Functionalities included in the prototype

2.3 Functionalities excluded from the prototype

Adopted development frameworks

3.1 Server

3.1.1 Programming languages

3.1.2 Middleware

3.1.3 API

3.2 Client

3.2.1 Programming languages

3.2.2 Middleware

3.2.3 API

Testing methodology

Installation instructions

Effort Spent

Andrea Falanti:

Document section	Hours
Introduction	0
Implemented functionalities	0
Adopted development frameworks	0
Testing methodology	0
Installation instructions	0
Implementation	Hours
Server	46
Client	0
Total	46

Andrea Huang:

Document section	Hours
Introduction	0
Implemented functionalities	0
Adopted development frameworks	0
Testing methodology	0
Installation instructions	0
Implementation	Hours
Server	0
Client	0
Total	0

References