

RASD + Tiberio - Saeid Rezaei

RASD - Requirement Analysis and Specification Document

Deliverable: RASD

Title: Requirement Analysis and Verification Document

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Download page: https://github.com/TiberioG/GalbiatiRezaei.git

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1 Introduction

1.1 Purpose

general description \dots

1.2 Scope

1.2.1 Description of the given problem

1.2.2 Goals

- E Allow users to notify authorities about traffic violations
- E Allow users to send pictures of violations
- E Be sure every information uploaded is never altered
- E Automatically add metadata to the reported pictures
- E allow users to mine information recorded
- E have at least two different priviledge for mining data
- E generate traffic tickets
- E authorities can see the the licence plates of violators, regular users cannot

1.3 Definitions, acronyms, abbreviations

- 1.3.1 Definitions
- 1.3.2 acronyms
- 1.3.3 abbreviations
- 1.4 Revision history
- 1.5 Reference Documents
- 1.6 Document Structure

2 Overall Description

2.1 Product perspective

add here class diagram + verbal description

- 2.2 Product functions
- 2.2.1 login
- 2.2.2 sending pics
- 2.2.3 mining info
- 2.2.4 issue a ticket
- 2.2.5 generate statistics
- 2.3 User characteristics

2.4 Assumptions, dependencies and constraints

- D the device should acquire position with an accuracy of enouth meters in order to univocally determine the road (e.g. 5 meters)
- D the device should take pictures with enouth resolution to be able to read the licence plate using the algorithm
- D in every picture the licence plate should be visible and the kind of violation
- D the number and kind of violation should be finite (defined by the law)
- D every authority account is verified and it's not possible to be created using the frontend

3 Specific Requirements

- 3.1 External Interface Requirements
- 3.1.1 User Interfaces
- 3.1.2 Hardware Interfaces
- 3.1.3 Software Interfaces
- 3.1.4 Communication Interfaces
- 3.2 Functional Requirements

think about use cases @both

- 3.2.1 User
- 3.2.2 Third party
- 3.2.3 Requirements

Requirements in order to satisfy the goals

R first

- 3.3 Performance Requirements
- 3.4 Design Constraints
- 3.4.1 Standards compliance
- 3.4.2 Hardware limitations
- 3.4.3 Any other constraint
- 3.5 Software System Attributes
- 3.5.1 Reliability
- 3.5.2 Availability
- 3.5.3 Security
- 3.5.4 Maintainability
- 3.5.5 Portability

4 Formal Analysis Using Alloy

5 Effort Spent

References