

DD – Design Document

1. Introduction
   1. Purpose

The DD purpose is to give an overall description of Safestreet architecture, in terms of computational components and interactions among those components.

Unlike the RASD it presents in more detail the backend of the application by describing aspects of the application such as the high level architecture, the runtime behavior and the algorithm design.

* 1. Scope

SafeStreets is an application designed to report violations committed by vehicles on the road. The violations reported by the users are stored in a map obtained from GoogleMaps API, which can be seen only by registered users.

This functionality is the core of the application, in fact users can filter date and type of the violation (parking, traffic lights, accident, speed) in order to be updated on the violation flows of their city. Also authorities such as the municipal police actively participate in the application. Not only do they send reportings, but there is a data crossover service between them and SafeStreets. Authorities send to SafeStreets accident reportings and receive parking violation reportings.

* 1. Definitions, Acronyms, Abbreviation

Definitions

Acronyms

·RASD: Requirement Analysis and Specification Document

·DD: Design Document

·CPU: Central Processing Unit

·DB: Database

·DBMS: Database Management System

·GPS: Global Position System

·API = Application Programming Interface

Abbreviations

·[Gn]: n-th goal

·[Rn]: n-th functional requirement

* 1. Revision History
  2. Reference documents
  3. Document Structure

1. Architectural Design
2. User interface design
3. Requirements traceability
4. Implementation. Integration and test plan
5. Effort spent
6. References