Software Engineering 2 - Mandatory Project

Immagine che contiene serviziodatavola

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DD

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Maserati Alessandro - 944593



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**1. Introduction**

1.1 Purpose

The purpose of this document is to provide details about the design of SafeStreets application. This will be done illustrating the chosen architecture, giving the description of all the components that form the system, representing the related run-time processes and showing which patterns are used to develop the system. Furthermore, the requirements illustrated in the RASD are mapped on the relative architecture’s components. Lastly, the implementation, the integration and the test plan are identified and described in detail.

1.2 Scope

1.3 Definitions, acronyms and abbreviations

1.3.1 Definitions

1.3.2 Acronyms

* RASD: Requirements Analysis and Specification Document
* DD: Design Document
* API: Application Programming Interface
* UX: User Experience
* DB: Data Base

1.3.3 Abbreviations

* [Rn]: n-th requirement

1.4 Revision history

* 09/12/19: Version 1.0
  + First release

1.5 Reference documents

* Specification Document “*SafeStreets Mandatory Project Assignment*”
* 1016.1-1993: IEEE International Standard

1.6 Document structure

This DD is composed by 5 sections:

**Section 1** is an introduction containing the purpose, the scope, the revision history and the structure of the document and terminology conventions.

**Section 2** represents the core of the document. It shows the architectural design with a detailed description of components, relations and interactions between them. This description is made exploiting component, deployment and sequence diagrams. Then, the patterns used in the design are listed.

**Section 3** provides only a UX diagram that integrates the mockups represented in the RASD.

In **Section 4**, an explanation on how the requirements identified in the RASD map to the design elements shown in section 2 is given.

**Section 5** contains the identification of the order in which the implementation, the integration of subcomponents of the system and the test of them is planned.

**2. Architectural design**

2.1 Overview

2.2 Component view

2.3 Deployment view

24 Runtime view

2.5 Component interfaces

2.6 Selected architectural styles and patterns

2.7 Other design decisions

**3. User interface design**

**4. Requirements traceability**

**5. Implementation, integration and test plan**

**6. Effort spent**