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TRAVLENDAR+

DD
Design Document

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1 Introduction

1.1 Purpose

With the Design Document we would like to make the idea of Travlendar+ application more precise and more detailed. In particular the main goal of the DD is to describe the system in terms of architectural design choices. It is written in particular for developers to help them to identify the architectural styles, the design patterns, the main components and their interfaces and, last but not least, the runtime behaviour.

1.2 Scope

1.3 Definitions, Acronyms, Abbreviations

- DD: design document;

- RASD: requirements analysis and specification document;

- API: application programming interface;

1.4 Reference Documents

- RASD;

- Specification Document;

- Example of DD of previous years;

1.5 Document Structure

This document is structured as follows:

Section 1: Introduction   In this section it is described the purpose and the main goals of the document giving a general description.

Section 2: Architectural Design   It gives a general view on how the architecture of Travlendar+ should be showing architectural choices, styles and patterns.

Section 3: Algorithm Design   In this part we include the most critical and relevant parts via algorithms.

Section 4: User Interface Design   This section provides an overview on how the user will see the application through the mockups and UX and BCE diagrams.

Section 5: Requirements Traceability   It explains how requirements defined in the RASD must be mapped to the design elements of the application.

Section 6: Implementation, Integration and Test Plan   This part will include the order of implementation of subcomponents and to integrate them. Moreover it will include our plan to test this integration.

Section 7: Effort spent   Here are reported the information about the hours of work spent by each member of the group by doing this project.

Section 8: References

2   Architectural Design

3   Algorithm Design

4   User Interface Design

5   Requirements Traceability

6   Implementation, Integration and Test Plan

7   Effort Spent

8   References