Laboratory Assignment AND Assessment Requirements Specification

Version 1.0

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Version History

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| --- | --- | --- | --- |
| **Version** | **Description of Change** | **Author** | **Date** |
| V01 | Initial/Modification of document | Student X | 16.03.2020 |
| V02 | Completion of document | Student Y | 16.03.2020 |

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# Introduction

The application is written in Java and is designated for teachers to monitor the assignment and assessment of the MAP discipline.

## Purpose

The application allows the user to manage a list of students, assign homeworks to them, mark grades for each homework, extend deadlines and manage delays.

## Scope

The scope of the document is to give information about the system: regarding the users, functionalities, purpose, usability, data management and user scenarios.

## Definitions, Acronyms, and Abbreviations

MAP = Metode Avansate de Programare

CRUD = Create/Read/Update/Delete

## Document Overview

The document is organized in chapters and subchapters describing the general purpose and scope of the document, the product description and requirements such as functional and user interface requirements.

# Product/Service Description

The application allows the user to display all students, assignments and grades, to add a new student, a new assignment and a grade for a student for an assignment, delete an existing student or an existing assignment and update a student.

## Product Context

The product is independent and self-contained.

## User Characteristics

Users that will be using this product are teachers teaching MAP.

# Requirements

Add here the requirements from the “initial” requirement document and details about each identified requirement.

When the program starts, the input data is read from the following text files:

* Students.txt file, which contains information about idStudent (student's number), name, group, email, name of the professor

- Assignment.txt file, which contains the following information: laboratory number (unique identifier), brief description of the requirement, deadline – the week of the semester in which the assignment should be delivered (1. 14), the week in which the theme was received (1..14).

The Also, the teacher can assign a grade from 1 to 10 for each assignment. Each week of delay will be penalized by 2.5 points.

An assignment can be delivered at most 2 weeks after its deadline, otherwise it will be marked with 1.

The file Catalog.txt will store information about the grades

## Functional Requirements

List the functional requirements (FR) of the system.

|  |  |
| --- | --- |
| Section/ Requirement ID | Requirement Definition |
| FR1.0 | Implement CRUD operations for the Student entity |
| FR1.1 | Adding a laboratory theme |
| FR2.0 | Adding a grade for a particular student to a laboratory topic; |
| FR3.0 | Extending the term of delivery for an existing subject |
| FR4.0 | Notify students by email when lab theme or delivery date is modified |
| FR5.0 | Weekly report sent by email to the student |
| FR6.0 | No delay if student has motivation. |
| FR7.0 | Filtering entities based on criteria. |

## User Interface Requirements

The user should be presented a menu where each option is describing one of the functional requirements. After choosing an option the program should ask the user to enter the needed information.

## Usability

* The user documentation and help should be complete
* The help should be context sensitive and explain how to achieve common tasks
* The system should be easy to learn.

## Data Management

The data should be stored in text files.

# User Scenarios/Use Cases

The application allows the user to display all students, assignments and grades, to add a new student, a new assignment and a grade for a student for an assignment, delete an existing student or an existing assignment and update a student.