Laboratory Assignment AND Assessment Requirements Specification

Version 2.0

02 March, 2020

Developed by:

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Version History

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| **Version** | **Description of Change** | **Author** | **Date** |
| V01 | Initial/Modification of document | David Vlad, Gabor Ioana | 02.03.2020 |
| V02 | Completion of document | David Vlad, Gabor Ioana | 15.03.2020 |

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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 teacher to display all students, grades and homework. Allows adding a student, a homework and a grade in the repository, as well as deleting an existent student and a homework.

## 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

## Document Overview

The document is organized in chapters and sub chapters 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 teacher to to display all students, grades, homework, add a student, a homework, a grade for a student for a homework, as well as deleting an existent student and a homework.

## Product Context

The product is independent and self-contained.

## User Characteristics

Users that will be using this product are teachers.

# Requirements

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

## Functional Requirements

List the functional requirements (F) of the system.

|  |  |
| --- | --- |
| Section/ Requirement ID | Requirement Definition |
| F0 | Implement CRUD operations for the Student entity |
| F1 | adding a laboratory theme |
| F2 | Extending the term of delivery for an existing subject (if the current week number is less than or equal to the number of weeks with the assignment deadline). |
| F3 | When adding a new laboratory theme, as well as modifying the delivery date of a theme, all students will be notified by email. The app will offer the ability to unsubscribe from these notifications |
| F4 | adding a grade for a particular student to a laboratory topic; any delays due to delays in delivery of a theme will be automatically calculated, showing the student's maximum mark on the topic. Important: A student, on a laboratory theme, has only one grade; |
| F5 | When adding a grade, the following information will be retained in the NameStudent.txt file: a "Theme:" ThemeNumber , "Delivered in the week:" NumberOfTheDeliveredWeek , "Deadline:" NumberOfDeadlineWeek , "Feedback:" feedback, suggestions, and explanations in connection with the reduced made regarding the grade. |
| F6 | The NameStudent.txt file (or its content) will be emailed to the student, weekly, with the subject "Feedback laboratory MAP". |
| F7 | The delays will not be considered if the student has motivation. Also, if the teacher did not enter the notes in time, it will be possible to specify the week in which the subject was delivered. - |
| F10 | Filtering entities based on criteria. |
| F11 | Reports |
| F11.1 | Laboratory grade for each student (the weighted average of grades from the lab topics; weight share = number of weeks allocated to the topic). |
| F11.2 | The hardest the theme: the average of the grades on the theme is the smallest. |
| F11.3 | Students who can enter the exam (average greater than or equal to 4). |
| F11.4 | Students who have delivered all the themes on time. |

## User Interface Requirements

The teacher 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 an adequate database not in memory as it is in our case.

# User Scenarios/Use Cases

The application allows the user to display all students, grades, themes, add a student, a theme, a grade for a student for a lab, as well as deleting an existent student and a homework.

Please refer to Analysis and Design Document.