Laboratory Assignment AND Assessment Requirements Specification

Version 1.0

8 March 2020

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Version History

Version	Description of Change	Author	Date
V01	Initial/Modification of document	Student N	1 March 2020
V02	Completion of document	Student M	8 March 2020

Contents

1. Introduction

The application is written in Java and is designated for teachers to be able to assign themes to students and keep track of them. #More details about how and what is the application keeping track of

1.1.Purpose

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

1.2.Scope

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

1.3. Definitions, Acronyms, and Abbreviations

#Create a little legend for the Domain Specific Language such that the user as well as the next developers can respect the conventions

1.4. 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.

2. Product/Service Description

The application allows the user to add students and themes. Also, he/she can assign a mark for a student on a theme. The user can modify at any time the student or delete it.

#the assignment of a grade is possible only for users that are teachers

2.1.Product Context

The product is independent and self-contained.

#More description should be added about what makes the product be in such way

2.2.User Characteristics

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

#Restraining the teachers only for the Map subject makes the application harder to integrate with other bigger systems and harder to scale as it was intended in the beginnging

3. Requirements

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 teacher should be able to see all students and themes, add a student or a theme, delete, find or edit any information about a student.

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. For each grade, it will contain the id of the grade, the name of the student, the lab id and the value of the mark given.

3.1.Functional Requirements

List the functional requirements (FR) of the system.

Section/ Requirement ID	Requirement Definition
FR1.0	Implement CRUD operations for the Student entity
FR2.0	Manage laboratory themes and subjects.
FR2.1	Extend the deadline for an existing subject
FR2.2	Add a new laboratory theme
FR2.3	Notify students by email when adding a new laboratory theme or modifying the delivery date of an existing subject
FR2.4	Add a grade to a particular laboratory theme to a particular student
FR3.0	Filter students based on #id
FR4.0	Generate reports

3.2.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.

3.3.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.

3.4.Data Management

The data should be stored in text files.

#Also can be stored in XML files

4. User Scenarios/Use Cases

The application allows the user to:

- Add a student
- Add a lab theme
- Assign a grade to a student on a theme
- Update student
- Delete student
- Find student #by which criteris is not specified
- Show all students
- Show all themes
- Filter student #not implemented for more than one criteria
- Notify students when adding a new laboratory theme or modifying the delivery date of an existing subject #not implemnted
- Extend a deadline

Please refer to Analysis and Design Document.