Laboratory Assignment AND Assessment Requirements Specification

Version 1.0

March, 2022

Developed by:

Tirdea Razvan, Tamas Timotei

937

Version History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Description of Change** | **Author** | **Date** |
| V01 | Initial/Modification of document | Tirdea Razvan, Tamas Timotei | 20.03.2022 |

**Contents**

[Laboratory Assignment AND Assessment Requirements Specification 1](#_Toc98692011)

[Version 1.0 1](#_Toc98692012)

[March, 2022 1](#_Toc98692013)

[1. Introduction 3](#_Toc98692014)

[1.1. Purpose 3](#_Toc98692015)

[1.2. Scope 3](#_Toc98692016)

[1.3. Document Overview 3](#_Toc98692017)

[2. Product/Service Description 3](#_Toc98692018)

[2.1. Product Context 3](#_Toc98692019)

[2.2. User Characteristics 3](#_Toc98692020)

[3. Requirements 3](#_Toc98692021)

[3.1. Functional Requirements 3](#_Toc98692022)

[3.2. User Interface Requirements 4](#_Toc98692023)

[3.3. Usability 4](#_Toc98692024)

[3.4. Data Management 4](#_Toc98692025)

[4. User Scenarios/Use Cases 4](#_Toc98692026)

# Introduction

The project is a course management application written in Java aimed at making the teacher’s task of managing the class students, themes and grades easier.

## Purpose

The application allows the teacher to add, delete, retrieve or update a student or a theme, to assign a grade to a student and manage the deadline of the themes.

## Scope

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

## 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 teacher to add, delete, retrieve or update a student or a theme, to assign a grade to a student and manage the deadline of the themes.

## Product Context

The product is independent and self-contained.

## User Characteristics

Users that will be using this product are teachers that want an easier way to manage the information regarding students’ grades and assignments dates.

# Requirements

## Functional Requirements

List the functional requirements (FR) 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 |
| F3 | When adding a new laboratory theme, as well as modifying the delivery date of a theme, all students will be notified by email. An unsubscribe option will be provided by the application. |
| 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. |
| 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. |
| F8 | Filtering entities based on criteria. |
| F9 | Various reports can be generated. |

## 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. The interface is user friendly and will help the teacher manage his work.

## 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 managed by the teacher can be stored in a XML file or a file with values separated by a “#”.

# User Scenarios/Use Cases

The application allows the teacher to print the list of students, print the list of themes, print the list of grades, add a new student, add a new theme, add grade for a student for an assignment, delete an existing student, delete an existing theme, update a student and extend the deadline for an assignment.