Laboratory Assignment AND Assessment Requirements Specification

Version 1.0

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931,

Version History

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| **Version** | **Description of Change** | **Author** | **Date** |
| V01 | Initial/Modification of document | Burian Raul, Cernov Alexandru | 02.15.2020 |
| V02 | Completion of document | Burian Raul, Cernov Alexandru | 15.03.2020 |

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# Introduction

The application is written in Java and is designated for teachers.

## Purpose

The application allows the user to simplify the process of grading and communicating the grades to the students for university disciplines

## 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

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 simplify the process of grading and communicating the grades to the students for university disciplines

## Product Context

The product is independent and self-contained, being designed to be used standalone by teachers in educational environmetns

## User Characteristics

Users that will be using this product are the teachers in educational institutions

# Requirements

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

## Functional Requirements

| Section/ Requirement ID | Requirement Definition |
| --- | --- |
| FR 1 | CRUD operations for student |
| FR 2 | Add a laboratory theme |
| FR 3 | Update deadline for existing laboratory theme |
| FR 4 | Students notified by email when a new theme is added or the deadline is updated |
| FR 5 | Grade students for the laboratories |
| FR 6 | Information about a student grade is saved in a text file “StudentName.txt” with the contents as in the requirements |
| FR 7 | Email the text files with the student grades’ information to students weekly |
| FR 8 | Filter students/themes/grades based on different “criteria” |
| FR 9 | Create reports as said in the requirements document |

## 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 XML files

# User Scenarios/Use Cases

The applications allows teachers to add/remove/update/see existing students and information about them. It allows the teacher to add a laboratory theme for students, with a deadline which can be extended. A student can be graded at a laboratory theme and his grade will be computed automatically. The information about a student’s situation will be emailed to him weekly. The teacher can filter themes or grades based on “criteria”. Also, he/she can create reports about the situations.

Please refer to Analysis and Design Document.