**Project Scope Statement**

**Lab Management Application**

**ALDI**

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**Table of Contents**

[Introduction 3](#_Toc520367540)

[Project Purpose and Justification 3](#_Toc520367541)

[Scope Description 4](#_Toc520367542)

[High Level Requirements 4](#_Toc520367543)

[Boundaries 5](#_Toc520367544)

[Strategy 5](#_Toc520367545)

[Deliverables 5](#_Toc520367546)

[Acceptance Criteria 6](#_Toc520367547)

[Constraints 6](#_Toc520367548)

[Cost Estimate 7](#_Toc520367549)

[Cost Benefit Analysis 7](#_Toc520367550)

# Introduction

This document describes the requirement specification for the software Lab Management App. LMA will mainly compose of three modules.

* Admin
* Teachers
* Students

Lab Management App will use a database system designed purposely for keeping records of teachers, laboratories, students and grades.

Authenticated admin section deals with creating teacher’s accounts and giving them access to the database which contains the groups of students for each study year. It also is the one who inserts students in the database.

Authenticated teacher section deals with creating labs for his courses, also with defining/modifying the groups of students. He is also responsible for creating accounts for his students and to notify them through a mail, and he is able to send messages in a group. After creating the groups of students, he can give grades and keep presence.

Authenticated student section is used by the students to check what grades they have at the labs he is assigned to. He also can see messages sent by the, and reset his password.

# Project Purpose and Justification

The purpose of this project is to ease the communication between teachers and students. Through the time, students had always misunderstood homework, grades, and they had the only opportunity to follow only one available schedule. Before, another trial of this application were made, but the project never had the necessary attention. The successful implementation of this project will raise with almost 80% the communication between teachers and students. The students and teachers will communication through an implemented instant messenger that will reduce the time of sending/responding to a mail. Also, homework will be corrected in very short time, and the student will receive immediately feedback. This application is for students in third or fourth year which have the possibility of more “online” courses.

# Scope Description

The Lab Management App is a web application running on any browser. The „clients” of the application are the teachers and the students.

The product will provide following functions:

* Maintain Database
* Create teachers account
* Create students account
* Send messages to students
* Send requests from students to teacher
* Send emails to students
* Security Management

The targeted project takes in following aspects:

* + 1. **User-friendly environment**

User-friendly graphical interfaces are provided so that the user of the system can interact with the system and enter data into the database. The interfaces get input from the admin and save it to the database.

* + 1. **Minamal time consumption**

As dealing with a large number of teacher, courses and students, the faculty needs to make its system less time consuming.

* + 1. **Maintaining the database**

The groups of students, the courses they are attending and the grades are recorded in the database. These are then accessed according to the requirements.

# High Level Requirements

The following high level requirements have been identified for Lab Management Application project:

* Accesible from any of the students;
* Ability to maintain tool internally without contact support;
* User friendly interface;
* Communication security, the messages should be encrypted for log-in;

# Boundaries

The Lab Management Application project includes all work associated with planning, designing, building and implementing Lab Management Application. This includes specific requirements from customer, which in our case is ACE. This also includes training materials and materials associated with the development tool, time for configuring, testing, troubleshooting and development of the application. As the tool will be very used, and used by a very large number of persons, Lab Management Application will need support from our developers in maintaining the system.

# Strategy

The Lab Management Application will be fully developed by our employees. They will be trained in using the chosen development tool. After development, the application will go straightly to the module test area. In this time, the developers will participate in meetings having the scope of finding the fastest and the efficient solution. The project manager will ensure that the IT experts incorporate all input from stakeholders and gathered requirements.

# Deliverables

There are several deliverables which will be produced as a result of the successful completion of the Lab Management Application project. If all of the following deliverables are not met then the project will not be considered successful. The Project Manager is responsible for ensuring the completion of these deliverables.

1. Deliverable 1 – A tested and operational database with all teachers and students from the current year;
2. Deliverable 2 – A tested and operational Lab Management Application which will allow students or teachers to create new accounts.
3. Deliverable 3 – A complete version of the Lab Management Application with fully functionality which was tested on the last version. Also, a complete and thorough user’s manual which provides step by step instructions on how to use Lab Management Application for students.
4. Deliverable 4 – A complete and thorough troubleshooting guide which provides corrective steps to users of all permission levels for all anticipated problems

# Acceptance Criteria

All acceptance criteria must be met in order to achieve success for this project:

1. Meet all deliverables within scheduled time and budget tolerance
2. Ease the communication by 80%;

# Constraints

Several constraints have been identified for the Lab Management Application project.

1. Three of the developers will only work 50% because they are allocated to another project;
2. Project manager will only work 75% of billable hours on this project;
3. Everyone in the team will only work effectively at least 80% because they are implicated in team meetings to be updated with team activities, and also will participated in team events which will short one Friday a month;
4. Lab Management Application will have full support from our senior manager;

# Cost Estimate

The estimated costs for this project are included in the table below. As the project proceeds and any additional costs become known, this cost estimate will be refined and communicated to all project stakeholders.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Expense** | **Estimated Budget** | **Expended to Date** | **Estimate to Complete** | **Variance** |
| Labor |  |  |  |  |
| Internal | €4000 | €500 | €3500 | +/- €1000 |
| External | €0 | €0 | $0 | N/A |
| Software | €0 | €0 | $0 | N/A |
| Hardware | €0 | €0 | $0 | N/A |
| Other | €1000 | €0 | €1000 | +/- $€500 |
| Total | €5000 | €500 | €4500 |  |

# Cost Benefit Analysis

A cost benefit analysis has been performed for the Lab Management Application Project. The successful completion of this project will provide ACE with significant benefits. It is imperative that all stakeholders understand there benefits as well as the importance of successful completion of this project. The table below shows a net benefit of

A cost benefit analysis has been performed for the PMD Project. The successful completion of this project will provide significant benefits to Acme Consulting. It is imperative that all stakeholders understand these benefits as well as the importance of the successful completion of this project. The table below shows a net benefit of $35,000 over one year after successful completion of the PMD Project. This is a total benefit of $242,000 if no project is done and schedule delays, cost overruns, and poor resource allocation continue.

|  |  |  |
| --- | --- | --- |
|  | With Lab Management Application | Without Lab Management Application |
| Costs of Project |  |  |
| Recurring Cost | €0 | €0 |
| Non-Recurring Cost | €5000 | €0 |
| Capital Costs | €0 | €0 |
| **Total Cost of LMA project** | **€5000** | €**0** |
|  |  |  |
| Benefits (1 semester) |  |  |
| Ease the communication by 80% | €1000 | -€1000 |
| Reduce Overruns by 30% | $170,000 | -$170,000 |
| Improve Resource Allocation | $22,000 | -$22,000 |
| **Total Benefits of LMA Project** | €10,000 | **-$207,000** |
|  |  |  |
| **Net Benefits of LMA Project** | €10,000 | -€10,000 |
|  |  |  |

Sponsor Acceptance

Approved by the Project Sponsor:

Date:

<Project Sponsor>

<Project Sponsor Title>