

***OfCourses* Requirements Specification**

April 17, 2022

Table of Contents

OFCOURSES REQUIREMENTS SPECIFICATION	1
APRIL 17, 2022	1
1. EXECUTIVE SUMMARY	3
1.1 PROJECT OVERVIEW	3
1.2 PURPOSE AND SCOPE OF THIS SPECIFICATION	3
2. PRODUCT/SERVICE DESCRIPTION	3
2.1 PRODUCT CONTEXT	3
2.2 USER CHARACTERISTICS	3
2.3 ASSUMPTIONS	3
2.4 CONSTRAINTS	3
2.5 DEPENDENCIES	4
3. REQUIREMENTS	4
3.1 FUNCTIONAL REQUIREMENTS	5
3.2 NON-FUNCTIONAL REQUIREMENTS	5
3.2.1 <i>Product Requirements</i>	5
3.2.1.1 User Interface Requirements	6
3.2.1.2 Usability	6
3.2.1.3 Efficiency	6
3.2.1.3.1 Performance Requirements	6
3.2.1.3.2 Space Requirements	6
3.2.1.4 Dependability	6
3.2.1.5 Security	7
3.2.2 <i>Organizational Requirements</i>	7
3.2.2.1 Environmental Requirements	7
3.2.2.2 Operational Requirements	7
3.2.2.3 Development Requirements	7
3.2.3 <i>External Requirements</i>	7
3.2.3.1 Regulatory Requirements	7
3.2.3.2 Ethical Requirements	7
3.2.3.3 Legislative Requirements	7
3.2.3.3.1 Accounting Requirements	7
3.2.3.3.2 Security Requirements	7
3.3 DOMAIN REQUIREMENTS	7
4. USER SCENARIOS/USE CASES	7

1. Executive Summary

1.1 Project Overview

This is a Software Engineering Project created by 6 Epoka University students. It's meant to be a web application used for creating a platform of online courses. These courses will contain sections of lecture slides, lecture videos and assignments.

1.2 Purpose and Scope of this Specification

The main goal is to create a web application for online courses where students and professors can collaborate. Lecturers can post courses that will be reviewed by quality assurance authorities of our website, which will be then shared with students according to tags provided by the professor. And on completion, students shall receive certifications provided by professors.

In scope:

- This project is responsible for providing a platform where lecturers carry out online courses and interact with an audience of students who will follow and engage with their programs.
- The platform will have a ready format prepared to perform all the necessary course administration aspects like adding, editing or deleting content; grading assignments; viewing statistics etc.
- Continuous software maintenance shall be provided.
- There will also be website security protection.

Out of Scope:

- This project is not responsible for the creation of regular course content. It shall be within the responsibility of the lecturers or instructors.
- There may be modifications or additions to website features along the way.

2. Product/Service Description

2.1 Product Context

To better illustrate this section of specifications, we can refer to the diagrams made available by our team in the project's GitHub repository: <https://github.com/eponari/OfCourses/tree/main/Diagrams>

2.2 User Characteristics

Admin:

- Validate courses
- Manage courses, instructors and students
- View course's and instructor's rating
- Edit credentials
- Log in
- View about/contact
- View available courses
- View most preferred courses
- Delete/add/edit course
- Check course's and homework statistics

Lecturer/Instructor:

- Add/edit/delete courses
- Assign/edit/delete homework

OfCourses Requirements Specification

- Check course's and homework statistics
- View available courses
- View most preferred courses
- View about/contact
- Log in
- Edit credentials
- Check and print grades
- View course's and instructor's rating

Student:

- View available courses
- View most preferred courses
- View about/contact
- Log in
- Edit credentials
- Check and print grades
- View course's and instructor's rating
- Cancel course
- View taken course
- Give instructor's and course's rating
- Take course

Guest:

- View available courses
- View most preferred courses
- View about/contact

2.3 Assumptions

- Our assumption is that it's feasible to deliver this project using the available technologies.
- The staff/team members obtain the technical skills to follow through with the concept.
- It is assumed that the lecturers who will be using the page, will have technical expertise in the area of study and provide the necessary materials for their courses.
- The students shall have access to all the needed resources in order to finish assignments and complete courses successfully.

2.4 Constraints

- Deadline: End of current semester.
- Technologies (programming languages and framework): PHP, HTML, CSS, Javascript, Bootstrap, MySql.
- The content available in the course pages should be provided by the lecturers themselves.
- All professors must have a certificate/license and professional background on the field in order to fulfill the criteria for the application.

2.5 Dependencies

- This product will require regular updating of course content in order to execute all the required features.
- The requirement for the deadline feature should be completed before implementing a way to track the time of submission.

OfCourses Requirements Specification

- The product should carry out the feature to view submissions without needing to download them before a method to unzip files automatically in the app can be built.

3. Requirements

3.1 Functional Requirements

Req#	Requirement statement	Priority	Date Reviewed	SME Reviewed / Approved
FR-01	The website should have a deadline feature to easily time assignments as well as a tracking system for when the assignments get turned in.	1	10/04/2022	Ari Gjerazi
FR-02	The website should also offer a way to see how many times the student has modified the assignment after turning it in.	2	10/04/2022	Ari Gjerazi
FR-03	The website should provide a method to view or unzip zipped files automatically in the application.	3	10/04/2022	Ari Gjerazi
FR-04	The website should give the lecturer the ability to view a submission without needing to download it first.	2	10/04/2022	Ari Gjerazi
FR-05	The website should have the content of the current week pinned at the top of the course page.	2	10/04/2022	Ari Gjerazi
FR-06	The website should split the content into categories or have it organized in a menu for submissions/assignments, announcements, materials/slides/books/lecture notes, grade list and so on.	1	10/04/2022	Ari Gjerazi
FR-07	The website should have a notification pop-up in the event that there is a new or unchecked post.	2	10/04/2022	Ari Gjerazi
FR-08	The website should offer a plagiarism checking tool, such as StudyMoose, in order to compare submitted documents for similarities.	3	14/04/2022	Igli Hakrama
FR-09	The website should arrange the content in chronological order week by week from top to bottom of the course page.	2	14/04/2022	Igli Hakrama