

LOVELY PROFESSIONAL UNIVERSITY
PHAGWARA, PUNJAB

A
SOFTWARE REQUIREMENTS SPECIFICATION (SRS)
ON

**“REGULAR ASSESSMENT OF THE LEARNING PERFORMANCE
RELATED TO A COURSE MODULE”**

MASTER OF COMPUTER APPLICATION (MCA)

CAP445 – OBJECT-ORIENTED PROGRAMMING USING C++ LABORATORY

SESSION: 2022-2023



SUBMITTED TO

Mr. UMINDER KAUR

SUBMITTED BY

Miss. DHAIRYA

Reg. no. - 12202778

Mr. L SAI SANDEEP

Reg. no. - 12203080

Mr. SATENDRA SINGH

Reg. no. - 12202949

Table of Contents

Page no.

1. EXECUTIVE SUMMARY

- 1.1 Project Overview.....1
- 1.2 Purpose and Scope of this specification.....1

2. PRODUCT/SERVICE DESCRIPTION

- 2.1 User Characteristics.....1
- 2.2 Assumptions.....1
- 2.3 Constraints.....2
- 2.4 Dependencies.....2

3. REQUIREMENTS

- 3.1 Functional requirements.....2
- 3.2 User Interface Requirements.....3
- 3.3 Usability.....3
- 3.4 Performance
 - 3.4.1 Capacity.....3
 - 3.4.2 Availability.....3
 - 3.4.3 Latency.....4
- 3.5 MANAGEABILITY/MAINTAINABILITY
 - 3.5.1 Monitoring.....4
 - 3.5.2 Maintenance.....4
 - 3.5.3 Operations.....4
- 3.6 SYSTEM INTERFACE/INTEGRATION.....4-5
- 3.7 SECURITY
 - 3.7.1 Protection.....5
 - 3.7.2 Authorization and Authentication.....5

4. USER SCENARIOS/USE CASES.....6

5. DELETED OR DEFERRED REQUIREMENTS

- Appendix A. References.....7

1. EXECUTIVE SUMMARY

1.1 Project Overview

- Regular assessments provide information on student learning. The performance of students is recorded with the help of assignments done by them by proving their marks or grades from the teacher.
- All these assignments are related to the course which helps students to get deep knowledge about the course by proving the syllabus. Good assignments allow you to answer the question.
- In this project, teachers are able to perform different duties like assigning assignments uploading syllabus, uploading marks, and so on. The student is able to upload the answer to the assignment and see the syllabus.

1.2 Purpose and Scope of this specification

- Its purpose is to help the student to improve their learning and provide different levels and standards of education.
- These assignments increase the deep learning of the student's performance and quality. By regularly doing assignments students learn new skills and techniques that provide a great scope in the future.

2. PRODUCT/SERVICE DESCRIPTION

2.1 User Characteristic

The User Characters are generally classified into two:

1. Student
2. Teacher

- Teacher is responsible for the maintenance of the dashboard.
- Students are applicable to access the dashboard.
- Dashboard Includes various tasks like Upload assignments, Marks display in percentage format, Assignment Display, and Presentations.

2.2 Assumptions

- Students Should Login with the given credentials then only he can access his profile and do the tasks.
- The professor where he will assign tasks to the students.
- He cannot access the page if he does not match the requirements
- The students have separate credentials and the same goes for Teachers.

2.3 Constraints

1. They are typically very time-consuming for students and teachers.
2. If there is a group assignment, it is hard to maintain time properly. Sometimes unable to complete the assignment because of un distribution of tasks or if it is created then in that case whole assignment is done by an individual.
3. There is no proper way for students to know their assessment process.
4. There is a lack of transparency in the assessment system.
5. Classroom assessment techniques are rare.
6. Teachers are required to finish the syllabus quickly because they have to report to the college administration for their work. The assessment system is taking away the freedom and independence of the teacher. Not only students but teachers also have to put a lot of effort into preparing and planning the assessments.
7. Lack of face-to-face communication.
8. Cheating prevention during the online assignment is difficult.

2.4 Dependencies

1. Database must be connected to the program.
2. New person has to create the account first.
3. Teacher and student are both required to login into the system.
4. Teacher has to upload the question of the assignment after that only student will upload the answer to the assignment.

3. REQUIREMENTS

3.1 FUNCTIONAL REQUIREMENTS

The functional requirements of our system are explained below : -

- Each student will be allotted an individual profile having a unique ID and Password
- Professor can add courses for the students which they are going to study in the ongoing semester
- Professor would be able to upload and attach deadlines to assignments
- Students can upload their assignments and only the concerned professors would be able to have a look it
- The professor will be able to evaluate the assignments
- Students would be able to analyse their marks directly on the dashboard
- Students can be able to view the syllabus.

3.2 User interface requirements

The Interface between the user and the system includes many provisions from where they can access the whole system. It contains the options list to move one from to another as well as searches form that is as follows:

- Login/signup page
- File management page

3.3 Usability

- The dashboard should be user-friendly to get access and upload the files.
- It should have all the processes on how to successfully access over the uploaded files and it should be easy to learn.

3.4 Performance

- The Performance of the dashboard lies in the way it is handled. Every user must be given proper guidance regarding how to use the dashboard.
- The other factor that affects the requirements is when it is not meeting the minimum requirements.

3.4.1 Capacity

Courses:

- Courses like C++, Java, Python, Statistics, and Database Management Systems, etc can be added at that time only.
- These courses are provided by the teacher and they will guide you.

File Size: Maximum 5 MB

- For each uploading assignment it will accept only the word and pdf extension files only.
- The student will upload assignments, and do their tasks.
- He can view the marks and check his performance.
- He can also see the syllabus of all subjects

3.4.2 Availability

- It will be available to both the user and professors at any time.
- As it is useful for the students to get an overview of their program tasks and pending works and it is a simple user interface that makes them easily understand the options.

3.4.3 Latency

- The Maximum acceptable time for a service request can be done within 6 hours.

3.5 MANAGEABILITY/MAINTAINABILITY

3.5.1 Monitoring

In monitoring, we keep recording the project process after delivering the software or a project. If there is any problem that the user faces regarding the project then try to solve them in a short period.

3.5.2 Maintenance

Each module of the application should be designed in such a way that any update or any new feature can be easily integrated with it.

3.5.3 Operations

- Hardware specifications:
 - Monitor or a laptop
 - Processor: intel core i3
 - RAM: 2GB or above
 - Hard disk:10 GB
- Software Requirements:
 - Operating system: Windows 10 or above

NOTE:- (for 3.5.3) - The application or software required to run the software properly will be installed at the time of installation only. But the user must fulfil these specific requirements that are mentioned above.

3.6 SYSTEM INTERFACE/INTEGRATION

- Hardware Requirements
 - Operating System: Windows 10 or above
 - Processor: Intel Core 3.0Ghz or above
 - RAM: 1GB or more
 - Hard Drive: 16GB or more

➤ Software Requirements

- Operating system: Windows 10 or above
- IDE: Code blocks
- Programming language: c++

3.7 Security

3.7.1 Protection

The Education system industry is always under the threat of criminal activities due to its sensitive nature. This is why offering safety, comfort, and student satisfaction.

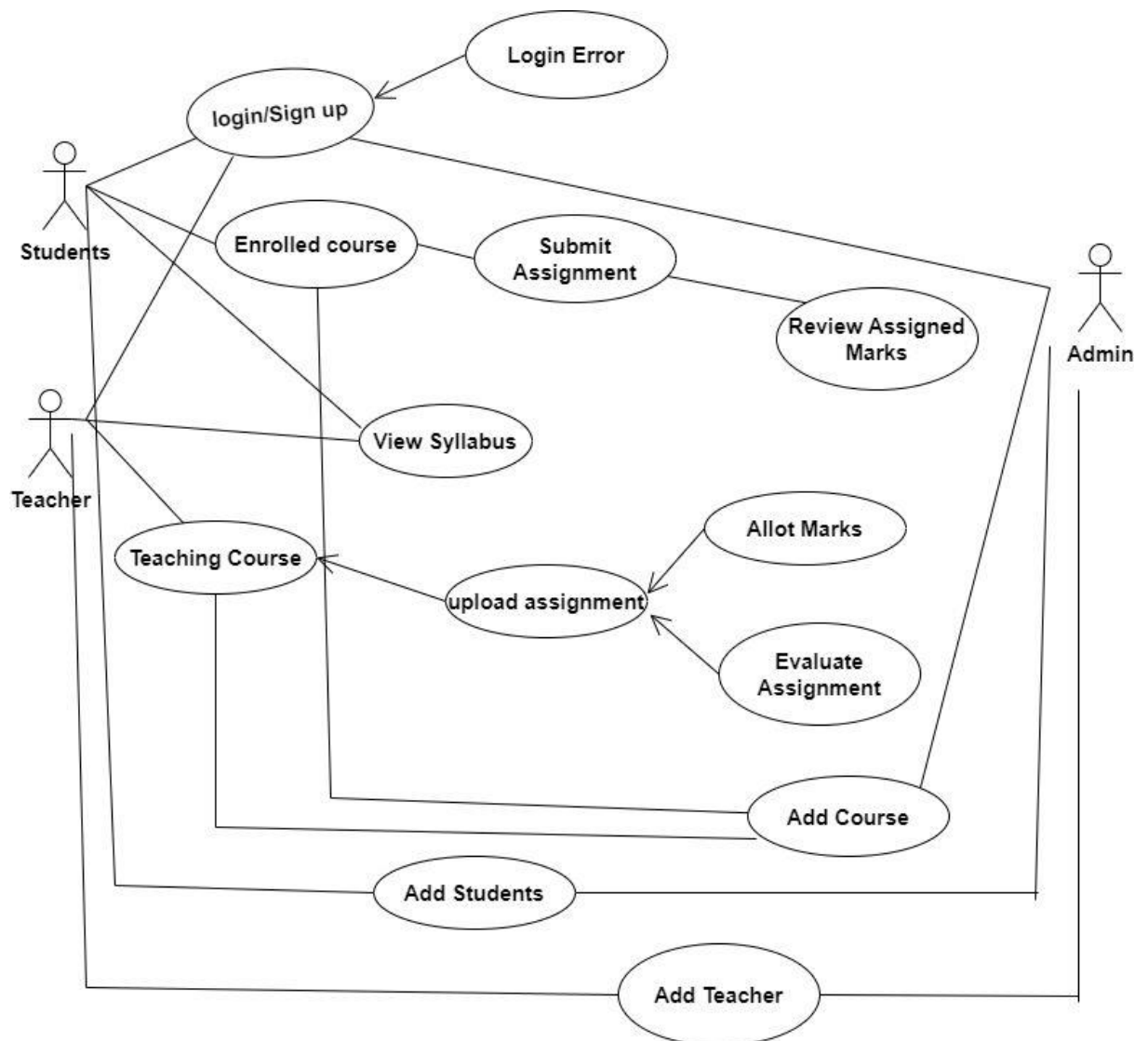
3.7.2 Authorization and Authentication

Students can authorize the dashboard with their unique id which is in the form of e.g.: 12244563

In the password part, it must have at least a symbol, alphabets, and numbers

It is most important for any password setting that is we have to include these all and strong password is suggested for privacy purpose.

4 USER SCENARIOS/USE CASES



Use Case Diagram

5 DELETED OR DEFERRED REQUIREMENTS

Appendix A. References

[constraints on regular assessment of the learning performance related to a course module - Google Search](#)

[10 Biggest Disadvantages of E-Learning - E-Student](#)

[Understanding the Role of Assessment in Learning \(queensu.ca\)](#)

[Regular assessments improve learning better | Explico.sg](#)

[regular assessment of the learning performance - Search \(bing.com\)](#)

[Monitoring on REGULAR ASSESSMENT OF THE LEARNING PERFORMANCE RELATED TO A COURSE MODULE - Google Search](#)