

## **SCHOOL OF COMPUTER APPLICATION**

### **Software Requirements Specification**

**A Project on**

**“Education Assignment Dashboard”**

**“M.C.A.” MASTER OF COMPUTER APPLICATION**

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# **Software Requirements Specifications**

## **1.Introduction**

SRS (Software Requirements Specification) is a document prepared before developing any software/application with the sole cause providing each and every detail about the project to be developed, what will be its requirements, what will be its functionalities and each and every minute details. Now, there is one question that what is the need of preparing SRS document?

Actually, it gives an overall picture about the project which gives a clarity to the team about what is exactly is to be made and what will be the step-by-step process. It is created strictly based on client's requirement.

### **1.1 Purpose-**

- The purpose of this document is to help all professors to keep the record of all the assignment which is assigned by them. It also help to track the number of assignment uploaded by Students.
- Purpose of creating this document is to present the software requirements and specification for the system in

the user and system level, detailed functional requirement are mentioned in the document.

## **1.2 Scope**

In Today's world student's activity are affected by digitalization more than education. Through student's assignment dashboard, Students are received and transmitted or upload their assignment on their respective dashboard to their professor's. Some of the time assignment dashboard require to perform multiple tasks. Usually when multiple assignment is required to upload. It includes detail like Student name, Student Registration number, Subject name, Subject code, Course code, Marking system, Professors name.

### **Acronyms: SRS: -**

SRS: - Software Requirements Specification

## **1.3. Reference**

<https://pureassignment.com/onlinedashboardassignment-help-all-you>.

## **1.4. Overview**

The next chapter, overall document, will give the overall functionality of the software describing hardware and technical requirements specifications.

The problem statement here is that all the assignment can be kept at one place online so that it can be checked by the professor's whenever, in case any discrepancy arises.

## **2.Overall Description**

In this section there is an overall detail of the system.

### **2.1. System Environment**

The system provides many factors on the type of users. The professor's will act like the controller and will have all the privileges of administrator on other hand member is a student of the university who will access the dashboard to download and upload their assignment.

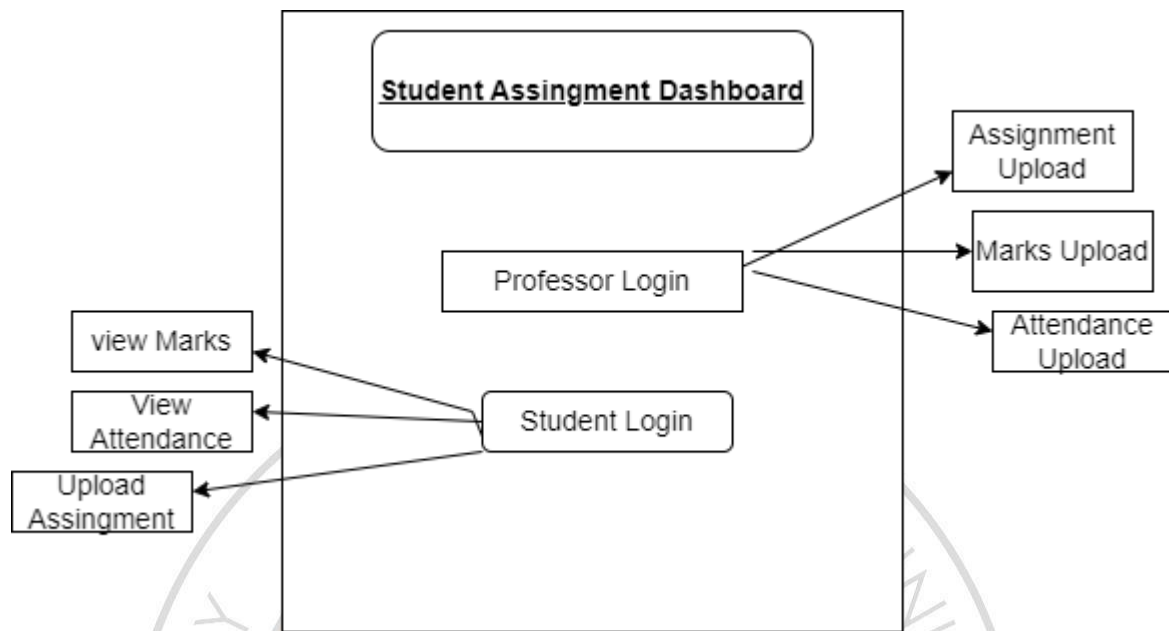


Figure 1- System Environment

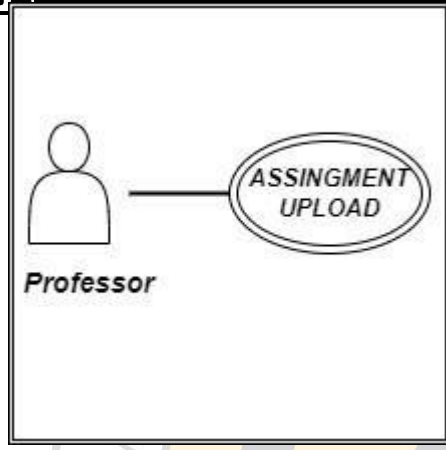
The "Student Assignments Dashboard has total 6 user case who can operate the system according to their needs. Among these 3 are for Professor's, 3 are for students.

## **2.2. Functional Requirements Specification**

In this section, use cases for each of the users are mentioned separately. The use case is made up of a set of possible sequences of interaction between systems

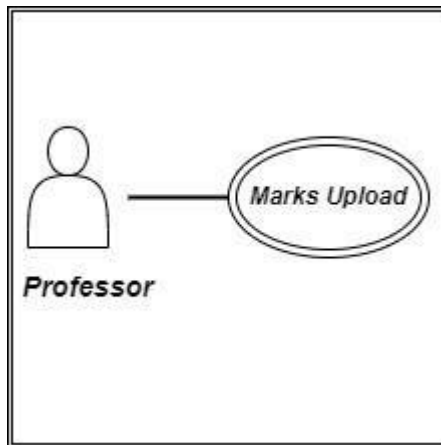
and users in a particular environment and related to a particular environment.

### 2.2.1 Professors user case



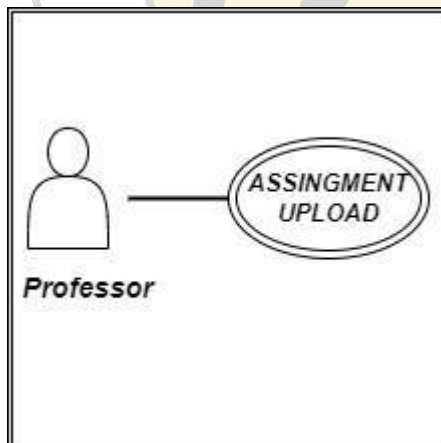
- Use Case: **Assignments upload:** -  
In this use case Professors upload their assignment for the student according to their subject and set the uploading time and last date and time of assignments upload for student.
- Use case: **Marks upload:** -





In this use case Professors upload the marks of students according to their assignment performance. They Upload Total Marks, Marks obtained, percentage obtained.

- Use case: **Attendance:** -

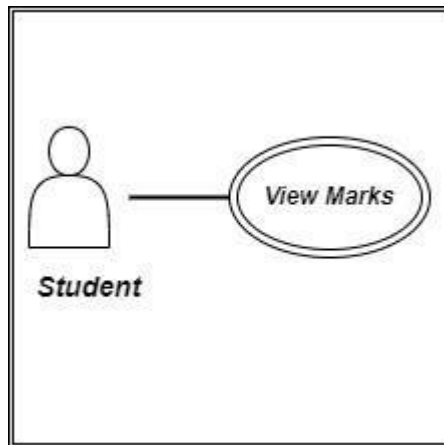


In this use case Professors upload the attendance of students according to their classes. In this use case Teacher upload how many days student attend class in total working days.



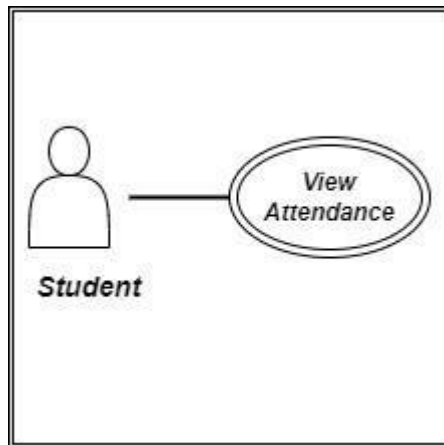
## **2.2.2 Student User case: -**

- Use case: **View Marks:** -



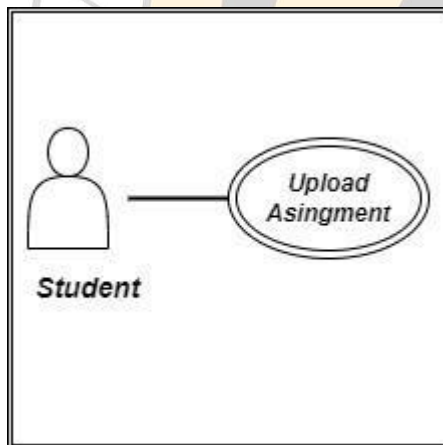
In this use case students view their marks according to their subject by entering the subject code.

- Use case: **View Attendance:** - •



In this use case students view their attendance subject wise.

- Use case: **Upload Assignments:**



In this use case Students can upload their assignment's according to the subject and date which is allotted to them from there Professor's.

## **2.3 Non-Functional Requirements Specifications:**

In this section, set of specifications are discussed which better describes the system's operation capabilities and constraints and attempt to improve it's functionality.

### **2.3.1. Graphical User Interface:**

1. First of all, the graphical user interface must be easy to use and understandable.
2. The interface of the software should be kind of professional.
3. The system shall display profile image of all its users.
4. The system shall provide use of icons, buttons and dropdown menus.
5. It should have multi-language facility for different users if possible.

### **2.3.2 Accessibility and Reliability**

1. The system should be hosted on cloud as it will be feasible in comparison to on-premises data center.
2. All the data of the software should be stored on Amazon

S3 as it provides 99% uptime and the data is replicated automatically.

3. The system shall be hosted on Amazon EC2 so that server uptime will be 99.9%

### 2.3.3. Performance

- • The system should load within the industry standard time.
- The system should support minimum 1000 and maximum 2000 concurrent users.
- The system should be sturdy for rough usage.
- The database should be updated in milliseconds and concurrency controls should be there.

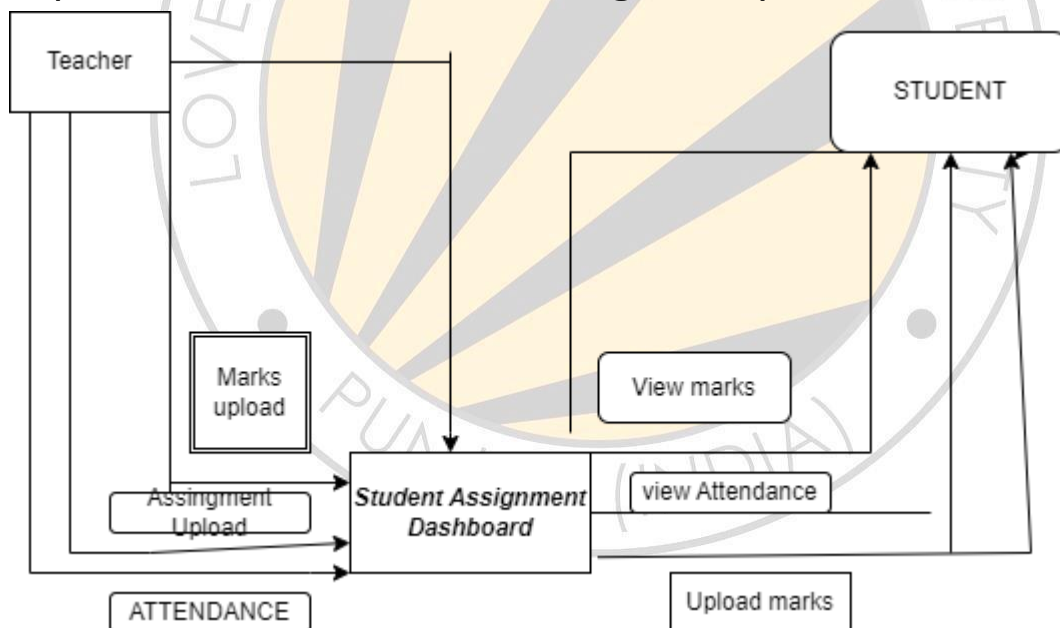
### 2.3.4. Hardware & Software Requirements-

- Hardware Requirements –
- Processor - Intel(R) Core2Duo or above
- Processor Speed – 1.0 GHZ or above
- RAM – 4 GB
- Hard Disk – 20 GB or above
- Pen drive – 2/4 GB
- Software Requirements--

- Windows 7(32-bit) or above
- C++ Compiler (Visual studio Code)

## Data Flow Diagram

“A data flow diagram shows the flow of working of the software to be developed. It visualizes the working mechanism of software by using lines, arrows and various shapes such as circles, rectangles, squares etc.”



# CONSTRAINTS

Everything has its limitations so this project also has the same. In our view the foremost constraint is that this software is currently not compatible on MacOS as it has been developed and made on and for Windows OS.

Interface of this program can be more improved with some designs and graphics as well as more commands can be added in the backend by the developers so that its scope will be increased.

