**Learning Management System**

**Business Requirement Specification**

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# 1. Introduction

# **Document Purpose:**

This document communicates the business requirements and scope for developing LEARNING MANAGEMENT SYSTEM. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements.

# **Project Background:**

There is no computerized system for the faculty to handle all the data. Currently, learning systems are wisely designed and are very dynamic in nature. It is very difficult to maintain such data manually. So the system is helping to maintain the data about students like assignments, online sessions, academic data, analysis of attendance etc.

# **Goals of the project:**

# The main objective of this project is building a website which will help faculty as well as students of a college where this system will be operational. This system will be user friendly and it can be used in rural educational institutes too. Students from rural areas will be able to use it easily for their studies. Any person having basic knowledge of the computer can use this system so the application of the system can be done in any part of the country.

# **Customers and Stakeholders:**

The Campus Portal System will support the following roles:

A. Admin:

* Manage user accounts
* Configure system settings
* Generate reports
* Maintain system security

B. Faculty:

* Create and manage courses
* Upload and share course materials
* Grade assignments and exams
* Communicate with students
* Track student Records

C. Students:

* Enroll in courses
* Access course materials and assignments
* Submit assignments
* View grades and feedback
* Interact with teachers and peers

# 2. Business Requirements Overview

* Learning Management System is the public web application.
* Learning Management System will be opened to the global, but in the phase 1, the main target is in the India.
* There are mainly two types of user. One is the Faculty and other is Students.
* Campus Portal System could be maintained by Administrator.

# 3. Functional Requirements Overview

Campus Portal (Learning Management System) consists of four modules described as below.

1. Admin Module.
2. Teacher Module.
3. Students Module.

* 1. **Admin Module:**

# User Profile Management:

* Users should be able to update their profile information, including contact details, profile picture, and preferences.

# Course Creation and Management:

* Teachers should be able to create courses, define course details, and set enrollment restrictions.
* Teachers should be able to manage course content, including uploading learning materials, creating assignments, and setting due dates.
* Teachers should be able to communicate with students through announcements and discussions.

# Academic Calendar:

* The system should display the academic calendar, including important dates such as exam schedules, holidays, and events.
* Users should be able to receive notifications for upcoming events and deadlines.

1. Administrative Functions:
   * The admin should be able to manage user accounts, including creating, modifying, and disabling accounts.
   * The admin should be able to configure system settings, such as course enrollment policies and access permissions.
   * The admin should be able to generate reports on user activities, course enrollment, and system usage.
   1. **Teacher Module:**

# Learning Materials:

# The system should provide a user-friendly interface for organizing and accessing learning materials.

# Users should be able to upload and download various file types, including documents, presentations, and multimedia.

# Attendance Tracking:

* Teachers should be able to record and track student attendance.
* Attendance reports should be generated for analysis and record-keeping.

# Grading and Assessment:

* Teachers should be able to grade assignments and exams and provide feedback to students.
* Students should be able to view their grades and feedback.
  1. **Student Module :**

# Communication and Collaboration:

* Users should be able to participate in course-specific discussion boards.
* Users should be able to send private messages to other users.
* Users should be able to share files and collaborate on group projects.

# User Registration and Authentication :

* Users should be able to register with the system using their email addresses and create a password.
* The system should validate user credentials during login to ensure secure access..

# 4. Non-functional Requirements

* 1. **Security:**
* The system should ensure secure user authentication and data transmission.
* User roles and permissions should be strictly enforced.
  1. **Performance:**
* The system should be able to handle concurrent user interactions without significant performance degradation.
* Response times should be within acceptable limits.
  1. **Scalability:**
* The system should be scalable to accommodate an increasing number of users and courses.
  1. **Usability:**
* The system should have an intuitive user interface that is easy to navigate and understand.
* User documentation and help resources should be provided.
  1. **Reliability:**
* The system should have a high level of availability and minimal downtime.
* Regular backups of data should be performed to prevent data loss.

**Constraints:**

* The system should be compatible with modern web browsers and mobile devices.
* The system should adhere to data protection and privacy regulations.
* The development should be within the allocated budget and timeline.

**Assumptions:**

* Users have basic computer literacy skills and access to the necessary hardware and internet connectivity.
* The system will be developed using appropriate web development technologies.

**Dependencies:**

* Integration with existing campus information systems, such as student information systems and academic databases, may be required.
* The availability of resources and support from the campus IT department for system deployment and maintenance.

**Approval:**

* This document should be reviewed and approved by the relevant stakeholders, including representatives from the administration, faculty, and IT department, before proceeding with the development of the Campus Portal (Learning Management System).

**Note:**

* This business requirement specification provides a high-level overview of the functionalities and requirements of the Campus Portal System. Further analysis and refinement may be necessary during the development process to capture specific details and address any additional requirements identified by the stakeholders.