



# LEARNING MANAGEMENT SYSTEM (LMS)

## WEB PROPOSAL

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### • *Client Information*

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Client Position : General Manager  
Company Name : Aliate Uni

### • *Service Provider Information*

Service Provider Name : Avishka Dilhara  
Company Name : Solo Tec

### 1.INTRODUCTION

Alta Alite Uni — This MOOC is for improving the student learning experience with focus on Information Communication Technology. In order to do this Solo Tec suggests implementing a full Shebang Learning Management System (LMS) aimed directly at university students. The LMS will act as an online platform for students in which they can view the course resources, learn with them and manage their academic work accordingly.



## 2.AIM OF THE PROJECT

The main objective of this project is thus to make a very intuitive LMS, that will allow the students in being able to do following:

1. Students can Just Do it by Downloading Course Notes- Students will have an option to view and download course summaries, presentations as well as other study content right from the platform itself.
2. View Lessons: The LMS will have streaming video services, enabling students to view recorded lectures and tutorials at their own pace.
3. Online Payment Gateway for Class Fees: Integrated payment gateway to allow students safely pay their school fees and class fees online

## 3.OBJECTIVES OF THE PROJECT

### 1. \*Creating a Reliable and Flexible Platform:

Our goal is to build a learning management system (LMS) that's strong and adaptable, using the latest web technologies. It will be designed to handle a large number of users at the same time, ensuring smooth performance even as more people join.

### 2. \*Boosting Student Involvement:

We want to make learning more engaging by incorporating features like discussion boards, quizzes, and assignments. These interactive elements will help encourage students to participate more actively in their learning.

### 3. \*Simplifying Administrative Tasks:

The LMS will include tools to help manage courses, track student progress, and generate reports. This will help reduce the amount of manual work and make administrative processes more efficient.

### 4. \*Prioritizing Security and Privacy:

We are committed to ensuring that the system is safe and secure. Protecting student data and making sure that all transactions are secure will be a top priority in the design.



## **4.SOFTWARE AND HARDWARE REQUIREMENTS**

### **SOFTWARE REQUIREMENTS:**

- Operating System:
  - \* Either Linux or Windows Server can be used, depending on what's most convenient for your setup.
- Web Server:
  - \* The platform will run on Apache or Nginx, both reliable choices for serving web content.
- Database:
  - \* We'll store all the data in either MySQL or PostgreSQL, depending on which fits the project better.
- Programming Languages:
  - \* The core development will be done using PHP and Python for the backend, and JavaScript with React.js or Angular for the frontend.
- Framework:
  - \* We'll use Laravel for PHP projects or Django for Python-based ones, both of which offer strong support for building robust web applications.
- Payment Gateway:
  - \* To handle payments securely, we'll integrate popular gateways like PayPal or Stripe.
- Video Streaming Service:
  - \* For hosting video content, we can use AWS S3 or YouTube's API, depending on storage needs and video access.

### **HARDWARE REQUIREMENTS:**

- Server Specs:
  - \* We'll need a server with at least 16GB of RAM, an 8-core CPU, and 500GB of SSD storage to ensure smooth performance.
- Backup Storage:

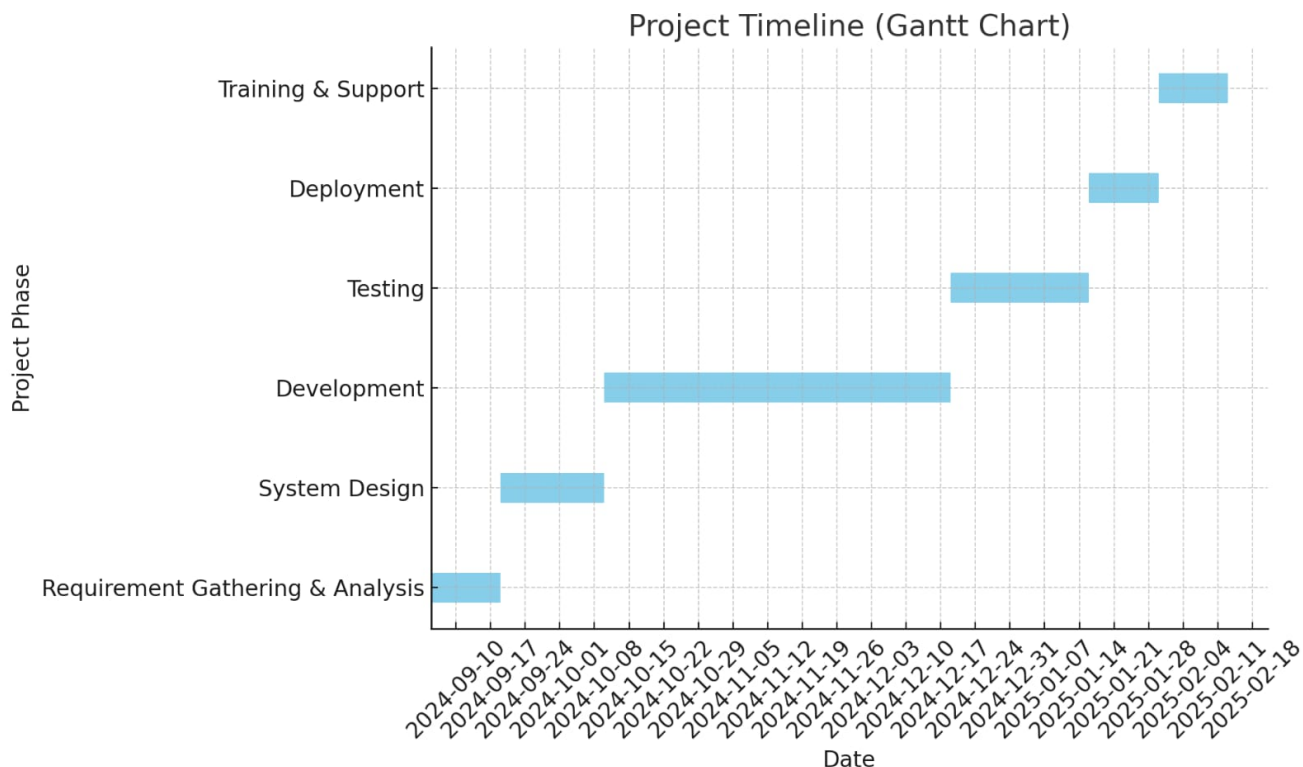


\* We'll also have 1TB of external storage for backups, ensuring data safety.

- Network Infrastructure:

\* A high-speed internet connection and firewall protection will be essential for security and smooth operation

## 5.TIME PLAN WITH GANTT CHART



## 6.CONCLUSION

The Learning Management System (LMS) we're proposing will offer Aliate Uni students a streamlined and easy-to-use platform for managing all their academic activities in one place. With features that make learning more interactive, access to resources more convenient, and administrative tasks simpler, this system will enhance the overall



educational experience. Solo Tec is dedicated to delivering a solution that's tailored to your institution's unique needs, helping to support your academic goals and ensuring a smooth, efficient learning environment for everyone involved.





## 7.LOG FILE EXAMPLE

To keep track of system activities and address any issues that may arise, we'll maintain a detailed log file. Each entry will record key information, such as the date, time, user, and the specific activity they performed. This will help with troubleshooting and ensure the system continues running smoothly.

Here's an example of what the log entries might look like:

Date	Time	User ID	Activity	Status
2024-09-01	10.00 AM	LMS_087	Downloaded course notes	Success
2024-09-01	10.07 AM	LMS_35	Watched Lesson 1 Video	Success
2024-09-01	11:08 AM	LMS_05	Payment transaction completed	Success
2024-09-01	1:56 PM	ADMIN	Updated course materials	Success

Having this log will make it easier to monitor user activities and address any potential issues quickly.

