# LEARNING MANAGEMENT SYSTEM
## Project Report

## Course Name (ICI651)

## Degree

**BACHELOR OF COMPUTER APPLICATION**

**PROJECT GUIDE:**                                    **SUBMITTED BY:**

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## FACULTY OF ENGINEERING & COMPUTING SCIENCES

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## ❖ Project Title

ONLINE LEARNING MANAGEMENT SYSTEM

## ❖ Domain
Website,Online learning management

## ❖ Problem Statement

An Online Learning Management System (LMS) is like a digital school. It helps students and teachers to learn and teach over the internet. Students can access lessons, videos, and assignments from anywhere, anytime. Teachers can create courses, share materials, and track students' progress. LMS makes learning flexible, allowing students to study at their own pace. It also promotes interaction through discussion forums and messaging. With features like quizzes and grading, it assesses students' understanding. Overall, an LMS streamlines the learning process, making education more accessible and engaging for everyone involved.

## ❖ Project Description

An Online Learning Management System (LMS) is a digital platform designed to help students and educators engage in learning activities remotely. It provides a central hub where students can access course materials, submit assignments, and interact with peers and instructors. Teachers can create and deliver lessons, track student progress, and assess performance. The LMS typically offers features such as video lectures, discussion forums, quizzes, and gradebooks. It aims to facilitate effective communication, streamline  dministrative tasks, and enhance the overall learning experience in a virtual environment.

# ❖ Scope of the Work

A Learning Management System (LMS) is like a digital classroom where students and teachers can interact, share resources, and learn together online. The scope of a Learning Management System involves creating a platform that enables users to access educational content, submit assignments, take quizzes, and engage in discussions from anywhere with an internet connection.

In simpler terms, imagine it as a big virtual school where students can attend classes, complete homework, and communicate with their teachers and classmates without being in the same physical location. It's a convenient way to learn, especially for people who have busy schedules or can't attend traditional schools.

Overall, the goal of a Learning Management System is to make education accessible, engaging, and efficient for learners of all ages and backgrounds.

# ❖ Project Modules

**For the admin side of the system**

- Add, edit, delete student information
- Add, edit, delete teacher information
- Add an entry like the subject, class, school calendar
- View log-in trail of every user
- View logs of every user activity

**For the Teacher User of the System**

- The teacher can create his/her Class
- After creating a class the teacher View the students for that particular class
- Upload Downloadable materials for his/her class
- Create practice quizzes for students
- Grade students assignment
- Post announcements
- Create a class calendar of events
- Message co-teacher or students

**For the Student user of the system**

- Sign up for his / her account
- Can view classmates in his / her class
- Answer practice quizzes
- View evaluation of assignment and quizzes
- Download downloadable materials in a class
- Upload downloadable material
- Message a teacher or his/ her classmate

## ❖ Technologies to be used

### ❖ Software Platform
- Front-end **-** Html, Css ,javaScript, Bootstarp.
- Back-end-   PHP, MySQL.

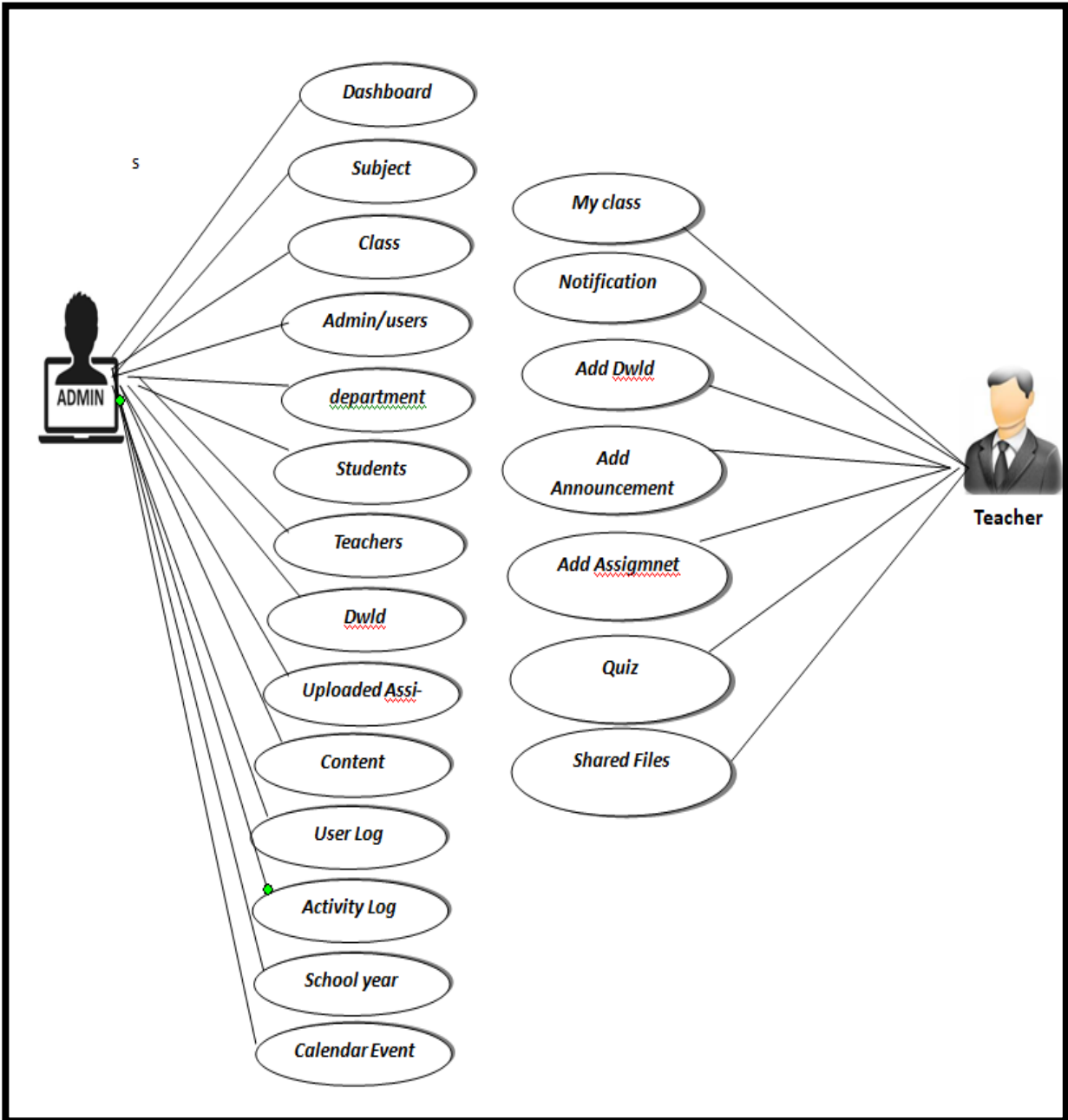## ❖ Hardware Platform

RAM- i5 , SSD- 256GB, OS- 11 .

## ❖ Tools
- Apache server
- Xampp Server version(8.0.30).
- VS.Code
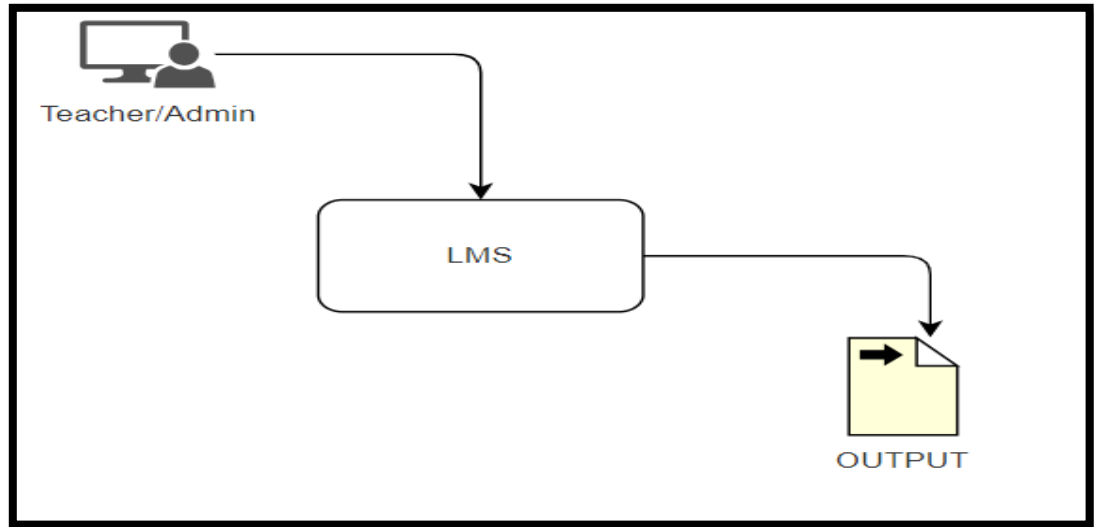- chrome browser

## ❖ Advantages of this Project

- **Save time**
  E-learning is self-directed, which means students can learn as and when it's convenient for them, all easily and quickly accessible via an LMS. It also saves time for administrators organizing training courses.
- **Improves the student experience**
  By ensuring all training courses and materials are located in one central location it improves the learning experience for students, meaning they're far more likely to engage with and complete courses.
- **Enables diverse assessment options**
  Assessment can take place online via multiple formats in an LMS. Short quizzes, multiple choice, questionnaires all provide the opportunity to deliver immediate feedback. Teachers can also reference an external site including video formats and apply questions or topics from that stimulus. Students have the option to upload their work in multiple formats including screencasts, podcasts or video.
- **Data-driven Insights**:
   With robust analytics capabilities, an LMS provides valuable insights into student progress, engagement levels, and learning patterns. Educators can use this data to identify areas for improvement, track student performance, and refine teaching strategies, ultimately enhancing the overall quality of education.
- **Communication:**
  Online learning platforms facilitate easy communication between students and instructors through messaging systems, email, and discussion boards. This fosters collaboration and enables students to seek help when needed.
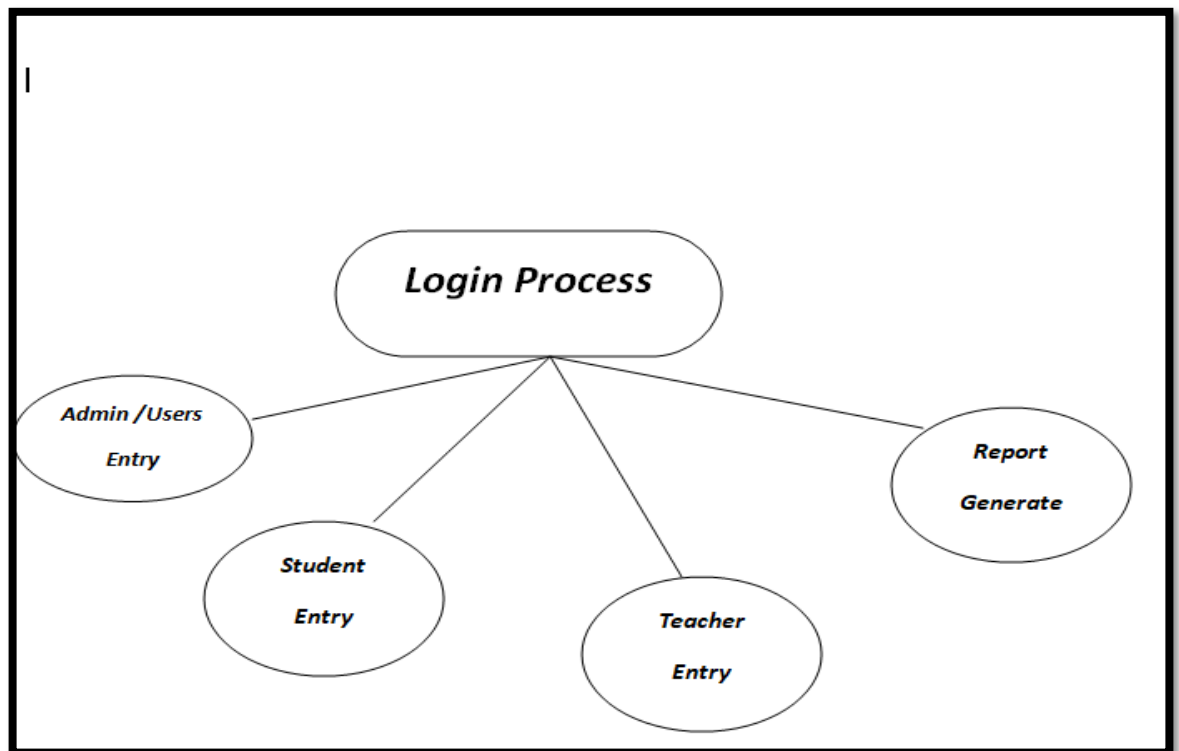
# Use Case Digram:-



ADMIN

- Dashboard
- Subject
- Class
- Admin/users
- department
- Students
- Teachers
- Dwld
- Uploaded Assi-
- Content
- User Log
- Activity Log
- School year
- Calendar Event

- My class
- Notification
- Add Dwld
- Add Announcement
- Add Assigmnet
- Quiz
- Shared Files
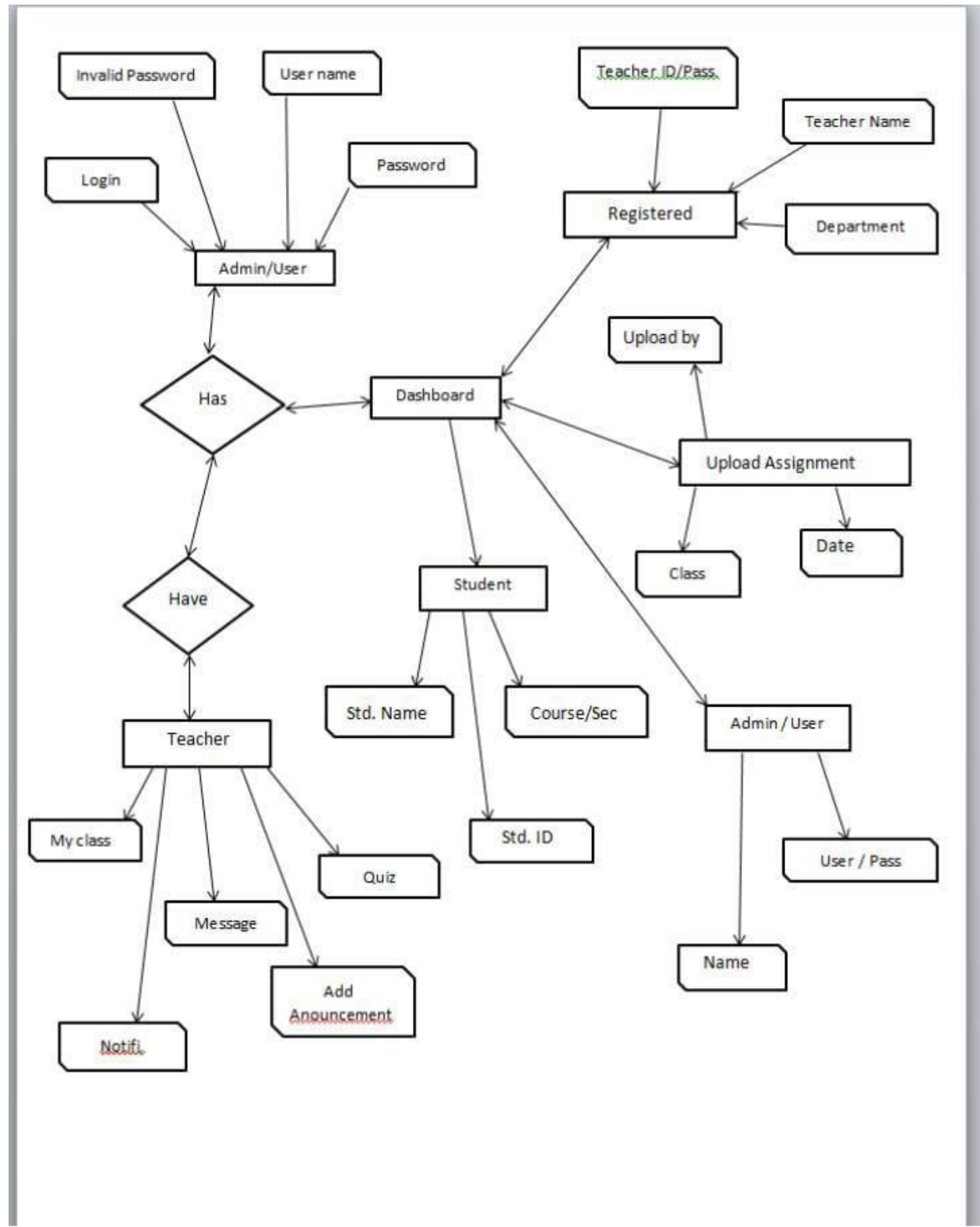
Teacher

## Data Flow Diagram:-

### 0-level DFD:-



### 1-level DFD:-

## *E-R Diagram:-*

## ❖ Future Scope and further enhancement of the Project

Despite its rapid growth, the learning management system is not completely spread in the market compared to how the internet has been adopted mostly due to lack of management resources and IT infrastructure. However, the potential for the growth of LMS technology in the market is high as universities and bigger institutes have started exploring this area and have started using LMS as an ideal medium for long-distance education programs.

LMS system makes education easier as there's an availability of multimedia sources alongside textual materials for the students. This makes learning fun and engaging thereby making a progressive e-learning environment.

Development of information and communication technology has supported the growth of learning management software and its propagation. Now almost everyone in a taken part of the society has a high-speed internet to access multimedia content available online.

# Conclusion.

In conclusion, the Learning Management System (LMS) stands as a transformative tool in modern education, offering a myriad of benefits to both learners and educators alike. By harnessing the power of technology, an LMS facilitates accessibility, scalability, personalization, efficiency, and data-driven insights, thereby revolutionizing the learning experience.

Through its accessibility, the LMS breaks down barriers to education, allowing learners to engage with educational materials at their own convenience, regardless of geographical constraints. Its scalability ensures that educational institutions of all sizes can utilize the platform effectively, accommodating varying numbers of students and courses seamlessly.

Moreover, the LMS's emphasis on personalization empowers learners to tailor their educational journey to their individual needs, enhancing engagement and knowledge retention. Simultaneously, its efficiency streamlines administrative tasks for educators, freeing up valuable time for more meaningful interactions with students.

## ❖ References

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