**LEARING MANAGEMENT SYSTEM(LMS)**

***Submitted by***

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**MASTERS IN COMPUTER APPLICATIONS**

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**Title:** Building a Learning Management System Using HTML, CSS, JavaScript, jQuery, Node.js, and MySQL

**Introduction:**

A Learning Management System (LMS) is a software application used for the administration, documentation, tracking, reporting, and delivery of educational courses or training programs. In this write-up, we will discuss the implementation process of building a basic LMS using HTML, CSS, JavaScript, jQuery, Node.js, and MySQL.

**Implementation Process:**

**Setting Up the Environment**:

Install Node.js and MySQL on your machine**.**

Create a new project folder for your LMS.

**Designing the Database:**

Create a MySQL database to store information about courses, users, and enrollment.

Design tables for courses, users, enrollment, etc., with appropriate relationships.

**Building the Backend with Node.js:**

Initialize a Node.js project using npm init.

Install necessary packages like express for the server, mysql for MySQL connectivity, and body-parser for parsing HTTP requests.

Set up routes for handling requests related to courses, users, and enrollment.

Implement CRUD operations (Create, Read, Update, Delete) for managing courses, users, and enrollment.

Creating the Frontend with HTML, CSS, JavaScript, and jQuery:

**Design the UI for your LMS using HTML and CSS.**

Use JavaScript and jQuery for client-side validation and interaction.

Implement forms for adding new courses, registering users, etc.

**Integrating the Frontend with the Backend:**

Use AJAX to send requests from the frontend to the backend.

Handle responses from the server and update the UI accordingly.