

Mini Project Report
on
LEARNING MANAGEMENT SYSTEM
(CSE IV Semester Mini Project PCS-404)
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Session: 2021-2022

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CERTIFICATE

Certified that **Mr. Ayush Maheshwari (Roll No.: 2018265)** has developed Mini Project on “**Learning Management System**” for the CSE IV Semester Mini Project Lab (PSC-404) in Graphic Era Hill University, Dehradun. The project carried out by the student is their own work as best of my knowledge.

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At last, but not the least I greatly indebted to all other persons who directly or indirectly helped me during this project.

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INTRODUCTION

1.1 Introduction

Learning Management Systems are beneficial to a wide range of organizations, including higher education institutions and corporations. The primary use of a learning management system is for knowledge management. Knowledge Management refers to the gathering, organizing, sharing and analysis of an organization's knowledge in terms of resources, documents and people skills. However, the specific role of the LMS will vary according to the organization's training strategy and goals.

Online or blended courses are likely delivered at your university using a learning management system (LMS) like Moodle, Blackboard, Desire2Learn, Sakai, Canvas etc.

Employee training and onboarding is one of the most common use cases for an LMS in a corporate environment. In this case, the LMS is used to help train new employees by providing opportunities to access training materials across various devices. New employees can be recognized when they add their own knowledge and feedback, which will, in turn, help employers understand how effective the training courses are and identify areas where new employees need more assistance.

Learning management systems are the software hub of most online courses. In general, they have basic tools for assessment, communication, content management, data collection, and reporting. Some may have tools for both synchronous (same time) and asynchronous (not happening at the same time) communication.

1.2 What is Learning Management System?

A learning management system (LMS) is a software application or web-based technology used to plan, implement and assess a specific learning process. It is used for eLearning practices and, in its most common form, consists of two elements: a server that performs the base functionality and a user interface that is operated by instructors, students and administrators.

Typically, a learning management system provides an instructor with a way to

create and deliver content, monitor student participation and assess student performance. A learning management system may also provide students with the ability to use interactive features such as threaded discussions, video conferencing and discussion forums.

LMS are frequently used by businesses of all sizes, national government agencies, local governments, traditional educational institutions and online/eLearning-based institutions. The systems can improve traditional educational methods, while also saving organizations time and money. An effective system will allow instructors and administrators to efficiently manage elements such as user registration, content, calendars, user access, communication, certifications and notifications.

The Advanced Distance Learning group, sponsored by the United States Department of Defense, has created a set of specifications called Shareable Content Object Reference Model (SCORM) to encourage the standardization of learning management systems.

1.3 About Project

A learning management system can be thought of as a large repository that allows users to store and track information in one place. Any user with a secure login and password can access the system and its online learning resources.

Learning Management come in many forms, like on youtube or online project management applications. At every level, task management tools help people:

- Work efficiently and reduce waste
 - Stay organized
 - Ensure teams and individuals are being utilized in the correct ways
 - Meet deadlines
-
- In this Project I am creating a User Interface Website via which a user can interact and maintain its learning tasks.
 - The project is a Front-End application and hence the courses is provided from the help of YouTube playlists but displayed to the user in a proper way.

- In this project, I have provided many sections like Home, Couse, Teacher, About and Contact Us section for easily maintain the site.
- The Interface is Structured using HTML (HYPER TEXT MARKUP LANGUAGE)
- Styled using CSS (Cascading Style Sheets)
- And Responsive Behavior is added using JAVASCRIPT.
- The Project also provide User Login and Functionalities of
- Adding, Deleting the courses and Contact Us form for any question.
- Displaying courses.
- The Site also have a Contact Us template for taking user feedbacks.

1.4 Features of Learning Management System

- **Responsive design** - Users should be able to access the LMS from whatever type of device they choose, whether it's a desktop, laptop, tablet or smartphone. The LMS should automatically display the version best suited for the user's chosen device.
- **User-friendly interface** - The user interface should enable learners to easily navigate the LMS platform. The UI should also align with the abilities and goals of both the user and the organization.
- **Course and catalog management** - The LMS holds all the eLearning courses and the related course content. Admins and instructors should be able to create and manage these courses in order to deliver a more targeted learning experience.
- **Contact services** - Different LMS vendors offer varying levels of support. Many provide online discussion boards where users can connect and help each other. Additional support services, such as a dedicated toll-free service number, are available for an extra cost.
- **Social learning capabilities** - Many LMS have started including social media tools within their platform. This allows users to interact with their peers, collaborate and share their learning experiences.

REQUIREMENT OF PROJECT

2.1 Hardware Requirements

Device Specifications:

- Processor : 11th Gen Intel(R) Core(TM) i5-1135G7 @ 2.40GHz 2.42 GHz
- Installed RAM : 16.0 GB (15.8 GB usable)
- System type : 64-bit operating system, x64-based processor

Window Specifications:

- Edition : Windows 10 Home Single Language
- Installed on : 2/27/2022
- OS build : 19044.1766

2.2 System Requirements

These are the software / frameworks/ servers which should be installed in your system.

- Code Editor Visual Studio Code.
- Live Server, Frameworks for running HTML, CSS and JAVASCRIPT

2.3 Database Used

At present, a text file is used for storing user credentials.

2.4 GitHub Repository Link

Link : <https://github.com/AyushMaheshwari2002/Learning-Management-System>

TOOLS USED FOR PROJECT

3.1 Tools

Languages:

HTML : For Providing Structure to the Site

CSS : For Styling the Website

JAVASCRIPT : For adding an interacting behavior and implementing crud.

Live Server : Used for Running the Website Locally.

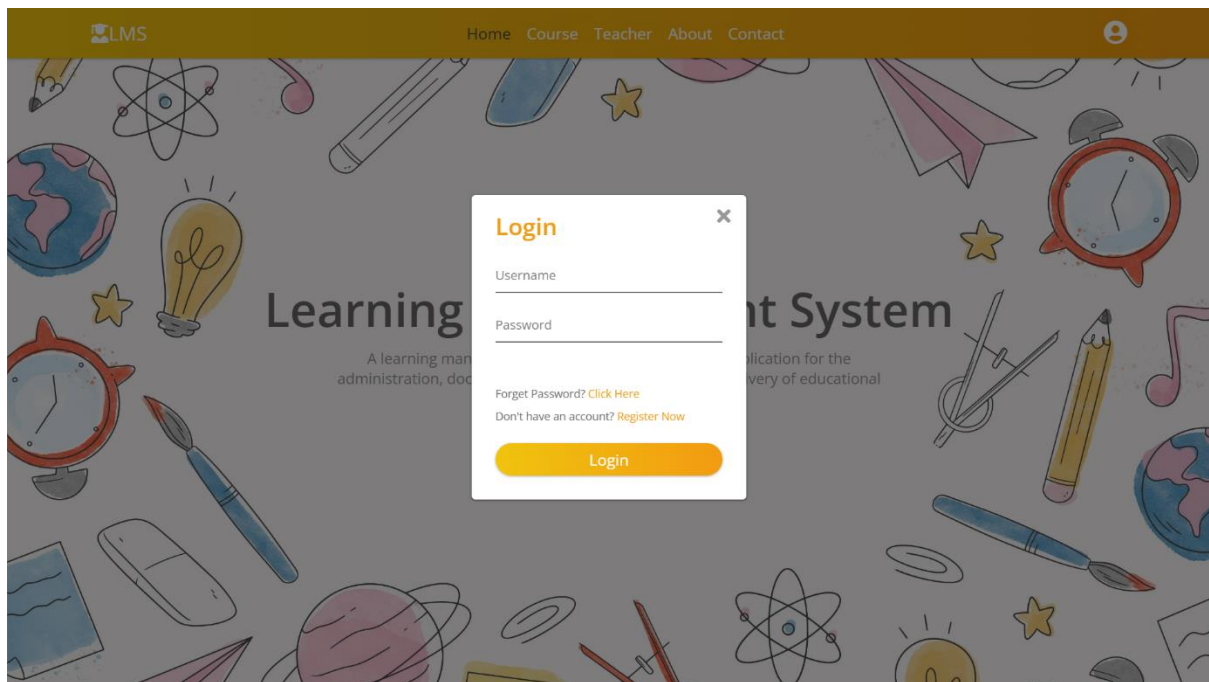
GitHub : For Maintaining Code.

OUTPUT

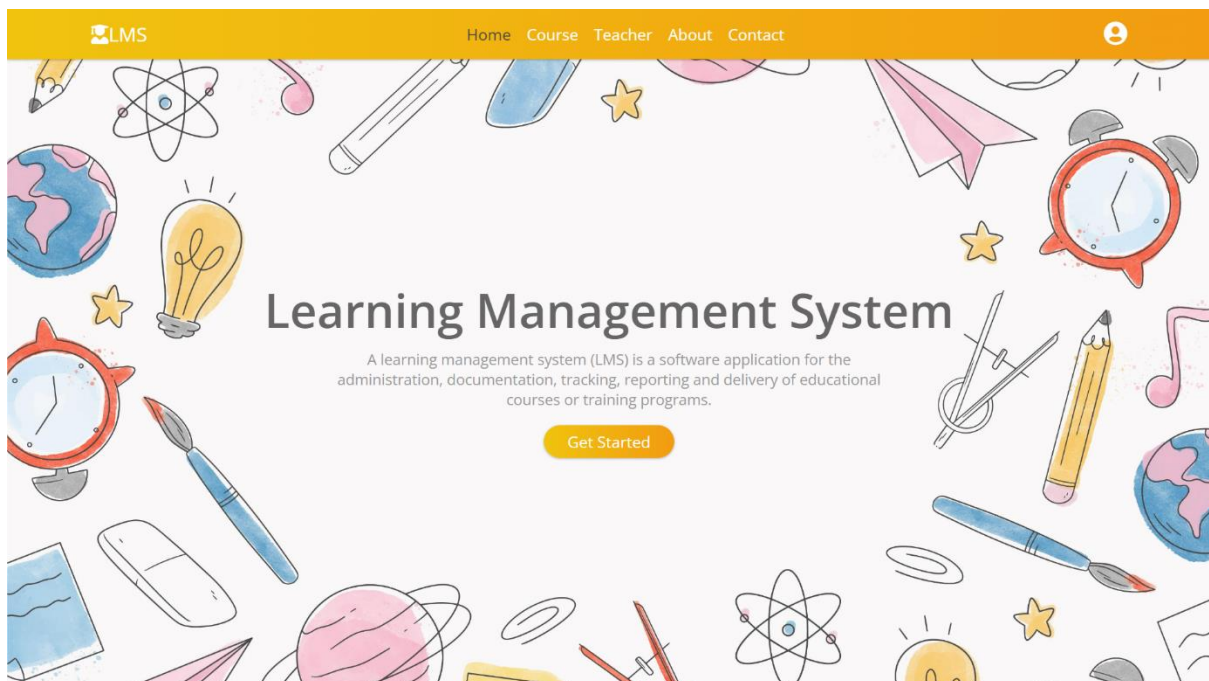
Learning Management System website is divided into different Sections :

- Login Section
- Home Section
- Course Section
- Teacher Section
- About Section
- Contact Us Section

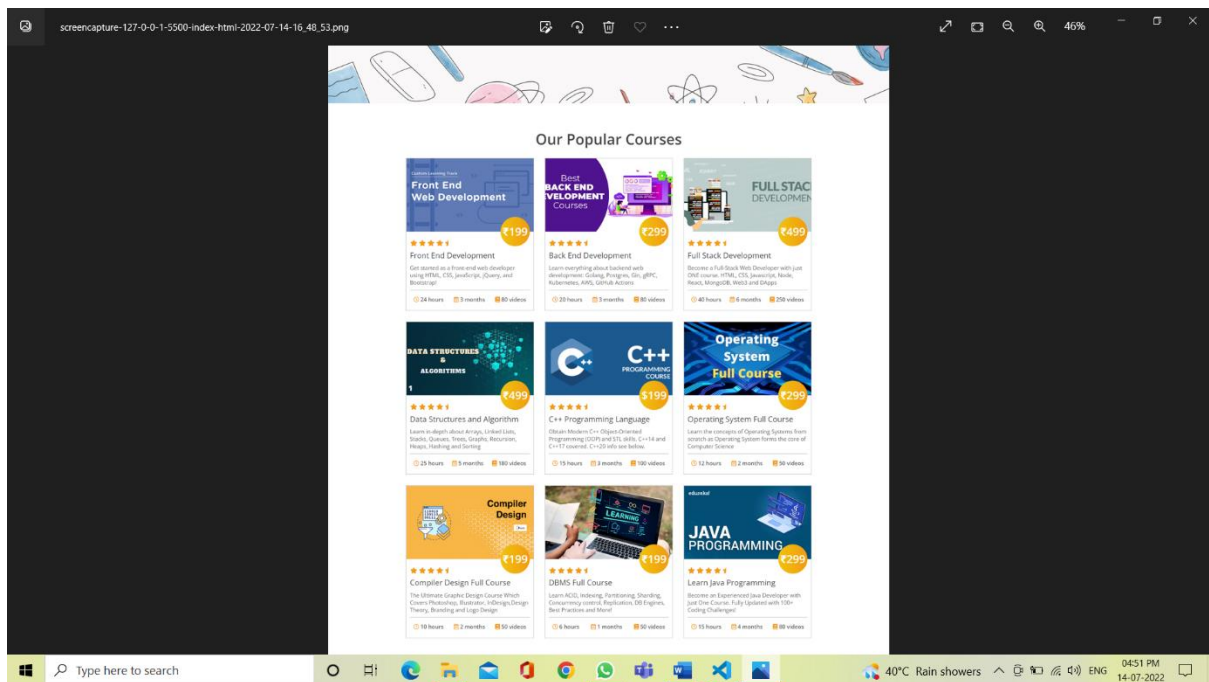
1. Login Section



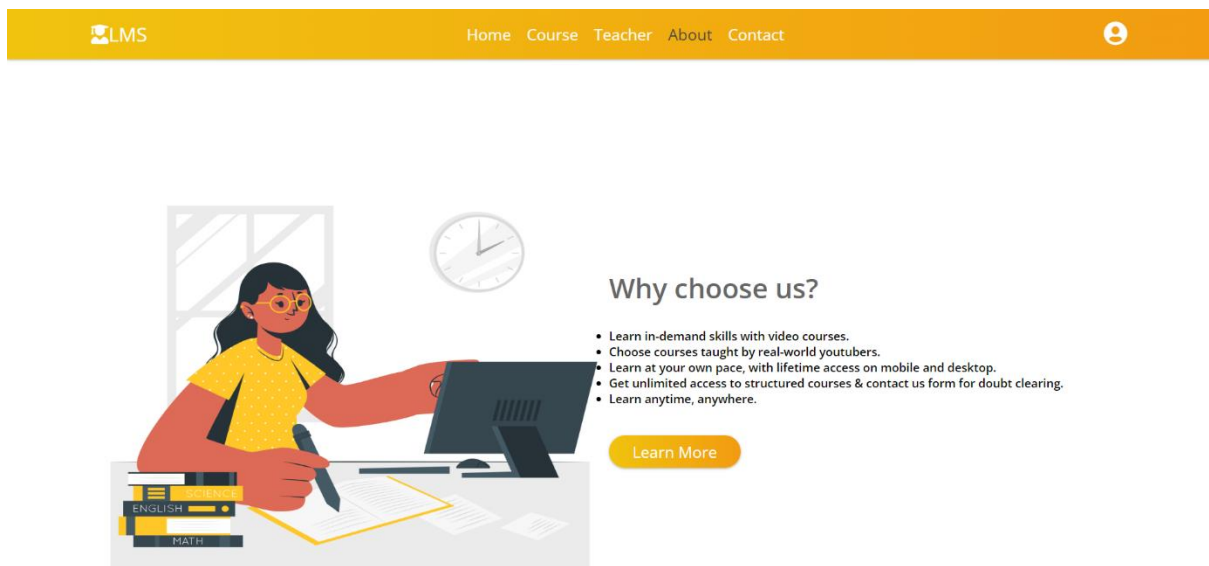
2. Home Section



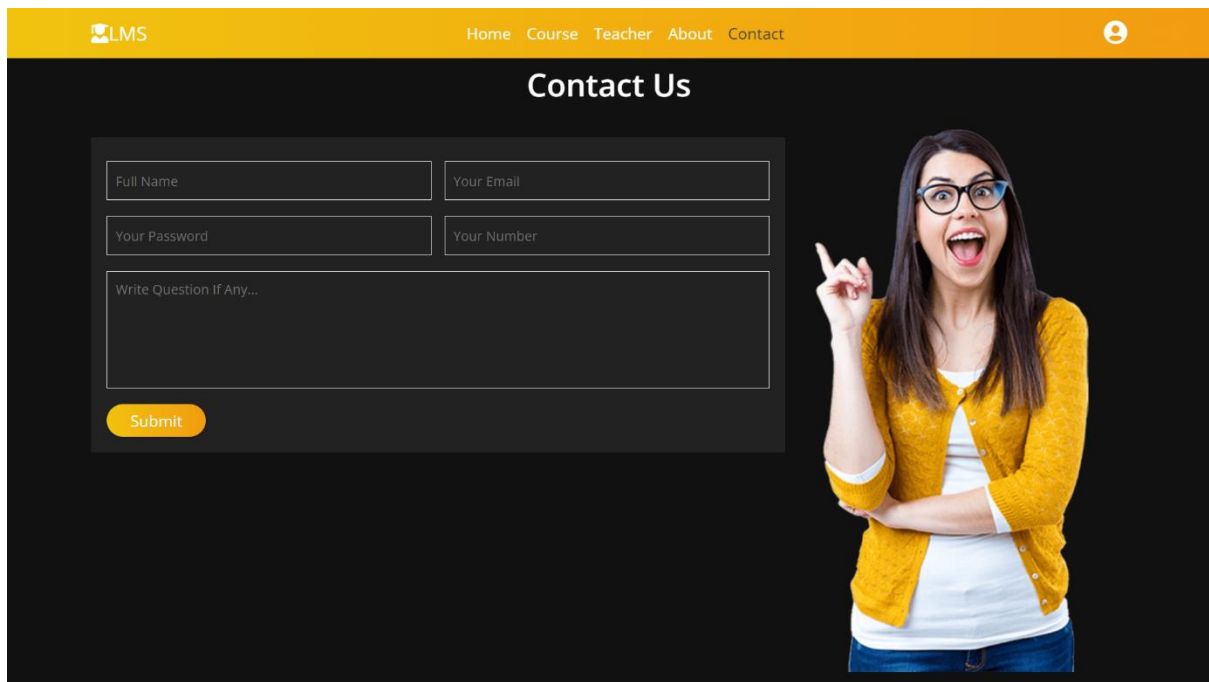
3. Course Section



4. About Section



5. Contact Us Section



The screenshot shows a web application interface for a 'Contact Us' section. At the top, there is a yellow navigation bar with the 'LMS' logo on the left and a list of links (Home, Course, Teacher, About, Contact) in the center. On the right side of the navigation bar is a user profile icon. Below the navigation bar, the page has a dark background. The title 'Contact Us' is centered at the top of this section. On the left, there is a dark gray form with the following fields: 'Full Name', 'Your Email', 'Your Password', 'Your Number', and a larger text area labeled 'Write Question If Any...'. A yellow 'Submit' button is located at the bottom of the form. To the right of the form, a woman with long dark hair, wearing glasses and a yellow cardigan, is pointing her right index finger upwards with a surprised expression.

- Also this website is **FULLY RESPONSIBLE** made up of using **MEDIA QUERY** so it is easily accessible on every other devices.

CONCLUSION

LMS or Learning Management System is website that offers a unique and best platform to manage learning resources and contents. It helps the organization, teachers, and students to collaborate, and handle all the resources used in the learning process. It helps them to create, deliver and track several training contents, whether it is a document or video.

The LMS has several advantages like quick and smooth progress tracking and performance reporting. It is developed to make life easier for every individual and organization who has taken the charge of quality training and learning developments, learning goals, meeting demands to complete the assigned task in time.

LMS has many capabilities to enable you to find your goal in no time with a large list of e-learning and teaching contents.

Learning Management System website can be accessed through any device from smart phones to big-Screens.

REFERENCES

W3 Schools

https://www.w3schools.com/html/html_scripts.asp

Code with Harry

https://www.youtube.com/watch?v=6mbwJ2xhgzM&list=PLu0W_9lII9agiCUZYRsvtGTXdxkzPyIt

Complete Web Boot Camp by Angela Yu

<https://www.udemy.com/course/the-complete-web-developmentbootcamp/>