**Learning Management System**

**Final Year Project Proposal**

**Bachelor of Computer Science (BSCS)**

**By**

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**Abstract:**

Even though a web portal can be defined in a variety of ways, all definitions agree that a portal is a single, personalized interface that enables users to access all information resources in a secure, standardized, and configurable manner. An LMS or learning management system serves as an optimistic approach aimed at changing future educational scenarios. The best thing about this dedicated product is that it is easy to use and mobile friendly, saving users a lot of time. With the transition to online learning during COVID-19, the largest problem for educational institutions was figuring out how to offer lectures to the students. This is where Zoom came in. We are creating a learning management system that will have embedded zoom in addition to all the usual functionalities offered by the current system. Along with it, we'll be providing other features like a QR Code-based attendance system, shareable link-based courses enrollment, mac address registration system, remote IT support.

**Introduction:**

A portal compiles information from numerous sources and makes it accessible to a variety of people. It provides centralized access to all pertinent information. A Learning management system is a digital learning environment that helps educational institutes to manage the records of students and help educational institutes to deliver lectures to students through digital means without any difficulties. It tracks and records regular activities of the students in institutes including attendance and exam performance. The application can be accessed by students, teachers, and admin with a role-based login. Along with the regular functionalities that a LMS provides this web application will also have video meeting-based classes, QR-code based attendance, shareable link-based course enrollment, mac address registration system, remote IT support.

**Problem Statement:**

Here are some problems find in the existing system

* There is a no way of creating video meeting
* No QR Code-based attendance exist
* No link-based course enrollment
* Live IT support

**Literature review:**

Learning management systems and student portals have taken many different shapes, each designed to meet a particular purpose. The usage of portal technology helps improve organizational productivity and efficiency. Information that is more relevant to the users' needs can be made simpler to obtain through the portal. An automated, paperless method is one of the options or features offered by the portal. The usage of the portal system has improved processes that would have been carried out manually and included the circulation of paper.

**Project Scope:**

The usage of portal technology helps improve organizational productivity and efficiency. The gateway is viewed as a way to arrange ourselves (institutions) so that we may make better impressions that last a lifetime. It makes it possible for users of university information systems to safely connect with university information sub-systems. This project integrates all the necessary technologies into a single platform to aid organization all at once. There has been a paradigm shift in organizational structure, particularly in the education sector, because of COVID-19. The abrupt shift significantly reduced the functionality. Everyone involved in this field, including instructors, students, and administration was affected. They found it challenging to adapt to modern technology. Management became very difficult for them.

With that problem in mind, we came up with this solution to develop such an efficient System that will handle all these tasks in a more managed and streamlined manner.

**Project Development Methodology:**

**Technology:**

* **Front End**
  + **HTML**
  + **CSS**
  + **JavaScript**
  + **jQuery**
  + **ReactJS**
* **Back End**
  + **NodeJS**
* **Database**
  + **MySQL**

**Tools:**

* **VSCode**
* **NPM**
* **Webpack**

**Project milestones and deliverables:**

**Functional Requirements:**

**Non-Functional Requirements:**