

A Modern Learning technique on the E-Learning platform

at

Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award of Bachelor of
Engineering Degree in Computer Science and Engineering
by

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OF COMPUTING**

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SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **Murugan S (38110341)** who carried out the project entitled “**A Modern Learning technique on the E-Learning platform**” under my supervision from September 2021 to November 2021.

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DECLARATION

I **Murugan S** hereby declare that the Project Report entitled **A MODERN LEARNING TECHNIQUE ON THE E-LEARNING PLATFORM** is done by me under the guidance of **Dr. R. Sathyabama Krishna. M.E. Ph.D.**, Associate professor, Dept of CSE at **SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering degree in Computer Science and Engineering.

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Abstract

In the recent years, there has been increasing demand in joining of new technologies into educational processes. Online Learning Management System is a

term used to describe software tools designed to manage user learning interventions. E-learning space is a web-based technology used to plan, implement and assess a specific learning process. E-learning space which also referred as Course Management System provide workspaces to facilitate information sharing and communication among students and lecturers to participate in course activities. Educators are able to distribute information to students, produce content material, prepare assignments, conduct meeting and tests, engage in discussions, manage distance learning and enable collaborative learning using forums, chats and news services. E-learning space also allows students to view multimedia lectures, communicate with their staff and each other's in learning communities, take online quizzes and submit homework and class work assignments.

E-learning fulfils the thirst of knowledge and offers online content that can be delivered for the learner at anywhere, anytime and any age through a wide range of e-learning solution while compared with traditional learning system. It also provides the rapid access to specific knowledge and information. With the rapid growth of voluminous information sources and the time constraint the learning methodology has changed. Learners obtain knowledge through e-Learning systems rather than manually teaching and learning. In this research paper proposes the e-learning management system with web services oriented frame work and SOA. This system supports the cross browser and fully integrated with different databases. This system focused around the several features namely Content Management, Content Protection, Learning Management, Delivery Management, Evaluation management, Access Control, etc., and mainly focused on integrated platform needed for e-learning and managements.

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO
	ABSTRACT	i

	LIST OF FIGURES	ii
	LIST OF TABLES	iii
	LIST OF ABBRIVATIONS	iv
1	INTRODUCTION	9
1.1	BACKGROUND OF THE PROJECT	11
1.2	OBJECTIVES	11
2.	LITERATURE SURVEY	12
3	AIM AND SCOPE OF THE PRESENT INVESTIGATION	17
3.1	THE MAIN GOALS OF THE SYSTEM	17
3.2	ADMINISTRATOR SECTION	17
3.3	STUDENT SECTION	18
4.	EXPERIMENTAL OR MATERIALS AND METHODS ALGORITHMS USED	19
4.1	CONTEXT DIAGRAM	19
4.2	IMPLEMENTATION	19
4.3	REQUIREMENTS	20
5.	RESULTS AND DISCUSSION, PERFORMANCE ANALYSIS	23
5.1	TABLES IN THE DATABASE	23
5.2	RESULT	27
6.	SUMMARY AND CONCLUSIONS	28
	REFERENCES	29
	APPENDIX	33

A. SCREENSHOTS	33
B. SOURCE CODE	44

LIST OF FIGURES

FIGURE NO.	FIGURE NAME	PAGE NO.
------------	-------------	----------

3.1	CONTEXT DIAGRAM	19
6.1	Sign-up page (Personal information form)	33
6.2	Sign-up page (Register no)	34
6.3	Mail Generation (For account Activation)	34
6.4	Login page	35
6.5	Home page	36
6.6	Posting query page	37
6.7	meeting credentials page (Staff Control)	38
6.8	Meeting Room	39
6.9	Course creation page (Staff Control)	40
6.10	Course Access (Student Control)	41
6.11	Course Creation (Selection of Department)	41
6.12	Course Creation (Selection of Class Section)	42
6.13	Adding course	43
6.14	Adding Assignment	44

ABBREVIATION

List of Abbreviations	Full Form
SQL	Structured Query Language
CSS	Cascading Style Sheets
JS	JavaScript
HTML	Hypertext markup language

CHAPTER 1

1.Introduction

Online Education gives an extended chance for the students to make their environment flexible it makes an improvement in the student's knowledge. Education has made a massive distinction inside the development of the modern era. Technology has provided the complete procedure of schooling and coaching in a visual environment. Without a doubt, E-Learning is firmly entrenched within the field of training. Studying about multimedia opportunities has arisen as the rate of the internet and also social media made a huge effect on learning and continues to thrive. Corporations use it for their education team of workers, specific projects, and increase their possibility. Website related are totally schooling programs, integrated study, online gaining knowledge of, fundamental training, and immersion analysis all the e-Learning knowledge of fashions utilized in research and multidisciplinary practice. Many prestigious educational institutions which are located in the USA and the Australia States already provide online learning to students around their states.

E-learning space sincerely was a distinct approach to it ten years ago and it's far still used nowadays. Many standards of E-studying are used to provide an explanation for using gear can be used to offer digital coaching aids for people who need statistics, and the net is the first-rate common approach

Layout and era are utilized in online learning to know that allows you to broaden, and expand learning, get rid of entry to, and practice materials to reveal development. Online learning profits, which started out as an internet distribution platform in colleges, now used by many exclusive organizations, inclusive of huge agencies, small agencies, authorities, non-earnings, and trading agencies. Health, communications, e-trade, training, and infrastructure some of the pinnacle industries that use e-mastering.

Education Institutes and other agencies are turning to online learning which gives on-line education for some motives. Whilst there were numerous enhancements in delivery systems on line training, privateness requirements and protection have been left out these days. These days, e-learning includes something beyond sharing data. Online learning is interactive, much wished and is available with many various virtual systems starting from PCs to PCs and portable gadgets. This impressively supplements the cooperation of reading and endurance. In a really developing USA like India, on line equipment can assist students obtain productivity extra over

extraordinary education by way of combining specific subject matters in them various interesting locations.

On the boards are slowly gaining recognition way to advances in design, visibility, smooth navigation, and pleasant content. Research has shown that E-Learning might be helpful expand a cognitive content and be clean concepts by offering bite measured, cooperative, and intelligent substance material Research have demonstrated that gaining knowledge of the curriculum it really is personality and supported higher than the standard curriculum. Very first-rate first - rate training may be supplied with digital mastering tools via making it your personal guide and mentor, consequently scholar needs.

E-studying boards offer college students flexibility and empower college students by means of permitting to find out about their speed and their plan. Student you'll be able to select the time and date for analysis or exercise content material provided in these diverse boards. Since that should be had assets, we were given, which may be both free of the rate or paid, long life or restrained amount of sometime moreover, the content material is consumed at the internet platform constant and well known compared to distinctive teaching sorts of professors. Specific widths of alternatives are supplied to customers thru e-getting to know Literature review.

While taking an E-learning course and related assessment, there are some features of exploration that test the knowledge of E- learning preceptors' sustainability while taking an E-learning course and related assessment. Former exploration indicates that the preface of technology in education (e.g., using E-learning) has faced numerous challenges in created nations. Donnelly and Mc Avinia (2012) Contend that there are "numerous scholars who have not been trained and have little experience in the practise of communication and data technology as a tutoring tool." 19th. Also, operation features can contribute to reducing the profitability of using e-learning. This includes, but is not limited to, bad ICT and E-learning. As The mix of innovation into instruction has become an institutional necessity for universities. The surrender of advanced courses inside the new e-learning landscape is both a hierarchical approach and an information source to pass judgment on its adequacy. Likewise, he expresses that coaching establishments face continuous difficulties in the utilization of innovation, while e-learning is the latest innovation. Still, Kim (2008)

Shows that technological challenges help the application of e-learning in instruction and intelligence resistance. Bendania (2011) demonstrates the characteristics associated with experience, primarily, positive stations, confidence, happiness, utility, the purpose of use, provocation, and that scholars have ICT chops, all related. Fageeh (2011) Suggests that experts have linked promoters and impediments to e-learning that were preliminarily recognized in previous studies.

1.1 BACKGROUND OF PROJECT

A learning system based on formalised teaching but with the help of electronic resources is known as E-learning. While teaching can be based in or out of the classrooms, the use of computers and the Internet forms the major component of E-learning. The purpose of e-learning is to allow people to learn for personal accomplishment or to earn a professional degree, without physically attending a traditional university or academic setting

1.2 OBJECTIVE OF PROJECT

To develop a system which can perform good interaction between students and teacher record work with a good accuracy.

To investigate the factors that influence the learning management system success among students.

To enhance the quality of learning and teaching. Meet the learning style or needs of students. Improve the efficiency and effectiveness.

To Improve user-accessibility and time flexibility to engage learners in the learning process

CHAPTER 2

Literature Survey

Despite the enormous growth of e-learning in education and its perceived benefits, the efficiency of such tools will not be fully utilized if the users inclined to not accept and use the system. Therefore, the successful implementation of e-learning tools depends on whether or not the students are willing to adopt and accept the technology. Thus, it has become imperative for practitioners and policy makers to understand the factors affecting the user acceptance of web-based learning systems in order to enhance the students' learning experience (Tarhini et al., 2014a). However, recent studies have shown that e-learning implementation is not simply a technological solution, but also a process of many different factors such as social factors (Schepers and Wetzels, 2007; Tarhini et al., 2014b; 2015), and individual factors (Liaw and Huang, 2011), organizational such as facilitating conditions (Sun and Zhang, 2006) in addition to behavioural and cultural factors (Masoumi, 2010). Such major factors play an important role in how an information technology is developed and used (Kim and Moore, 2005). Fischer et al. (2015) studied how proceedings of scientific conferences can be used for trend studies in the field of e-learning. They examined the abstracts of 427 scientific articles of leading German-speaking e-learning conferences Gesellschaft für Medien in der Wissenschaft and E-Learning-Fachtagungen der Gesellschaft für Informatik e. V. (GMW and DeLFI) – published from 2007 to 2013. The study was conducted at German-speaking conferences and, thus, reflects the situation in Germany, Switzerland and Austria. Fischer et al. (2015) made an important contribution to the diffusion of digital media in higher education. The researchers found that the detailed analysis of the frequency distribution over the seven years reflects the intensity of scientific discussion towards e-learning trends, and conclusions about the didactical or technical potentials of innovations can be introduced. Specifically, they found the development potential of learning management, mobile learning, virtual worlds, e-portfolio, social media and Massive Open Online Courses are crucial for e-learning in German higher education. Moravec et al. (2015) showed how e-learning tools impact students' achievement. The study was attended by nearly 2000 students. According to Moravec et al. (2015), the study compares the results of questions from the area of law where the tool was provided in a pilot version with the results of questions, where the e-learning tool

was not provided. The researchers found that the e-learning tools have affected the students' results. Nevertheless, the belief of the e-learning tool may possibly have a negative effect on students who will depend on given materials was disproved.

By using the Cohen's model and based on data collected from 15 documents from relevant research studies conducted on the effect of ICT based e-learning on academic achievement during 2010-2012, Mothibi (2015) examined the relationship between e-learning and students' academic achievement in higher education. The researcher found that ICT had a statistically significant positive influence on e-learning based students' academic achievements. The results also indicated that ICT had a significant positive influence on students' educational overall academic achievements. Scholtz and Kapeso (2014) and Almajali et al (2016), Shannak (2013) explored the factors of mobile learning (m-learning) approaches which can be used for enterprise resource planning (ERP) system. The technology acceptance model (TAM) was applied to assess the acceptance, usefulness and perceived ease of use of the m-learning. The researchers found that the m-learning system was correlated positively for perceived ease of use and perceived usefulness as such findings confirmed other studies which stressed the importance of the quality of course content in e-learning and m-learning projects. Pieri and Diamantini (2014) conducted their research based on the experience of e-learning web 2.0 at the University of Milano-Bicocca in the academic year of 2011-2012. The objective of the research was to make the implicit and tacit knowledge that the users have, explicit, and therefore more accessible. Since the ICTs have become an essential part of the learning experience for people all ages, so it's become a concept that needs to be explored, the researchers started elaborating the transition from Web 2.0 to e-learning and the aggregation of the power of Web 2.0 with social networks in the learning process. They used Thinktag Smart, a new Web 2.0 platform; that mixes the learning opportunities offered by the web 2.0 with the learning opportunities of social networks for sharing knowledge, to train 137 students in two subjects (Tourism, and Sociology of innovation), after this experience they gave them a questionnaire to evaluate the learning experience, and the platform. Thinktag Smart had some features that were most used in the platform: (resources, shelves, and groups); where the least used were: (Wiki, collections and chat), the strengths of the platform which made it generally appreciated, were; the resources or the ability to exchange and share information with users of Think tag Smart; support teaching as

the portal was open to share notes and materials connected to courses they need; and the interactivity feature of the platform provided for the users. As for the weaknesses, which didn't allow for the complete satisfaction, they were; the slowness in loading the pages, the unclearness/complexity, the lack of immediacy, and intuitiveness. In sum the platform was a tool of great potential, but to be competitive; realities need further improvements. Salter et al. (2014) aimed to demonstrate the features and benefits of the practice of e-education in general and in particular in the pharmacy, where e-education helps to clarify the vehicles pharmaceutical and elements of vehicles in that it would facilitate the process of analysis and helps to count the number of elements, a more precise and faster, where there are a number of theories that help to clarify more broadly. It is those theories to determine the effectiveness of the system and how to explain overlaps that occur within complex e-education system and therefore the system's capacity for analysis and helps greatly stunning offers time and effort and cost. The researchers found that e-learning to be effective at increasing knowledge immediately after training for all topics and in all contexts. E-learning in pharmacy education was a highly suitable instructional format for pharmacists and pharmacy students. It is the benefits that help their e-education system in the field of universities, where all the students are taking the attendance and leave them through computer system due to the student e-education, e-has to know the number of absences, as well as upon request duties is due to send and receive the solution through e-education persist this system its ability to sweep all organizations work accuracy and speed. Teo (2014) aimed to clarify the extent of teacher satisfaction of the application of e-learning programming persevere teachers. Teo (2014) investigated the key drivers of teachers' e-learning satisfaction. 387 participants in a postgraduate diploma in education completed a survey questionnaire to measure 6 constructs (tutor quality, perceived usefulness, perceived ease of use, course delivery, facilitating conditions, and course satisfaction). By using structural equation modelling, data analysis showed that, apart from facilitating conditions, all other constructs were significant predictors of e-learning satisfaction. Nevertheless, the facilitating conditions construct was found to be a significant mediator of perceived ease of use and satisfaction. The trend of using e-learning as learning and teaching

tools is now rapidly expanding into education. Suri and Sharma (2014) examined the relationship between disciplines of students and their responses and attitudes towards e-learning. The researchers used computer and e-learning attitude scale by employing survey questionnaires to 477 students enrolled in various courses across 6 major disciplines in Panjab University Chandigarh, India. The researchers found a significant relationship between discipline of student and the factors of scale on computer and e-learning attitude which set emphasis on the role of department in learning and satisfaction level of students. Arasteh et al. (2014) proposed a dynamic resource management model to develop the availability and dependability of the e-learning services in the grid system. A dynamic replication technique was employed to tolerate resource failure/unavailability during the execution of an e-learning service in the economic grid system. The researchers found that the availability of the e-learning services in the proposed model was higher than those of the basic resource management services. This model maintains a trade-off between cost and the degree of quality of e-learning services. Ceobanu and Boncu (2014) investigated in a theoretical manner the challenges associated with the use of mobile technology in adult education. They argued that mobile learning (m-Learning) can be placed at the connection of eLearning and mobile computing, which is differentiated by the capability to access learning resources anywhere, anytime, through high capabilities of search, high interaction, high support for effective learning and ongoing assessment based on performance. Also, m-Learning considered to be as an extension of eLearning, but characterized by its independence from a location in space and time. Furthermore, m-Learning comprises the use of mobile technology in the service of the processes related to teaching and learning. The learning can be considered as the point where mobile computing and eLearning meet to create a learning experience that can be commenced anytime and anywhere. Beurs et al. (2015) argued that randomized researches investigating the impact of training of mental health professionals in suicide prevention guidelines are limited. The researchers evaluated whether professional benefited from an e-learning supported train-the-trainer program aimed at the application of the Dutch multidisciplinary suicide prevention guideline. 45 psychiatric departments from all over the Netherlands were clustered in pairs and selected randomized. All of the staff of psychiatric departments was trained by peers with an e-learning supported train-the-trainer program. Multi-level analyses were

employed to find if variation between conditions was due to differences between individual professionals or departments. The study found that the intervention resulted in an improvement of individual professionals. At the three month follow up, professionals who received the intervention demonstrated greater guideline adherence, enhanced self-perceived knowledge and superior confidence as providers of care than professionals who were only exposed to traditional guideline dissemination. Also, the analyses showed that enhanced guideline adherence was found among nurses but not among psychiatrists and psychologists, and there was no significant effect of the intervention on team performance. According to Judrups (2015), the development of knowledge management and e-learning unsurprisingly are developed for years as both disciplines deal with knowledge capture, sharing, application and generation; have vital technological components to enhance learning; and contribute to building a continuous learning culture. Judrups (2015) found that knowledge management and e-learning naturally bring both disciplines closer and supports integration. Model analysis confirmed several integration approaches. The more general approach is to

base integration on common ground, which is identified as learning. Nevertheless, these approaches are not implemented in production environment and require necessary technical specification and application support. Jakobson and Cakula (2015) aimed to get a new perspective on knowledge sharing process, and better understand the future of automated learning support system involving the use of new technological opportunities. The major study question was how the automated learning support system could develop the efficiency and quality of further knowledge flow and offer sustainable cooperation between educational institutions and entrepreneurs. The researchers found that the analysis of the information system as an online learning support platform, improved quality of knowledge flow, and recommendations for advancing work-based learning besides the encouragement of efficient knowledge management technologies. Furthermore, innovations in the learning process needs to be real and simple to help adults find how to solve their problems; preparation of training is needed following a specific employer demand and knowledge sharing has to be equally vigorous on both interested sides; and needs have to be obtained; and accurate content and quality must be presented according to merchant's prospects.

CHAPTER 3

AIM AND SCOPE OF THE PRESENT INVESTIGATION

3.1 THE MAIN GOALS OF THIS SYSTEM

There are certain goals when it comes to eLearning and some of these are to: Enhance the quality of learning and teaching, Meet the learning style or needs of students, Improve the efficiency and effectiveness, improve user-accessibility and time flexibility to engage learners in the learning process. E-Learning is vast and an expanding platform with huge prospective in higher education. Since there are many challenges in making eLearning effective, it is important to know how to manage it and access to the resources. Take a minute and just imagine if one is not having the roadmap to guide from start to finish is actually like plunging into eLearning without an effective strategy because learners would be lost in the learning content.

3.2 ADMINISTRATOR SECTION

A Learning Management System administrator is a person who has the responsibility of managing the team and providing daily support as well as keeping the ongoing operations of an LMS stable. In other words, this employee is the one who usually deals with Defining user roles, creating learning courses, building custom certification, providing personal feedback for the learners Additionally, in numerous cases, this is the person in charge of maintenance of the client portal. In other words, an LMS administrator should take care of the accuracy of postings.

Accordingly, he or she has to make sure that only the ones that are appropriate and relevant are published.

2.3 STUDENT SECTION

Generally, student responsibilities in an online or blended course parallel those encountered in the traditional classroom with some variations given the nature of the course environment. These responsibilities include

Attending the Course Orientation: Whether on-site or online, students must participate in a course orientation

Reading Course Documents: It is important that students read all course documents

“Attending” Class: Students must “attend” the online components of a course just as they would a traditional course

Organizing and Managing Time: Courses that have a significant online component may not provide students with as many reminders of course expectations regarding time as do traditional face-to-face courses.

Acquiring Needed Materials: Students must obtain all necessary course materials, including required textbooks, lab materials, and course software

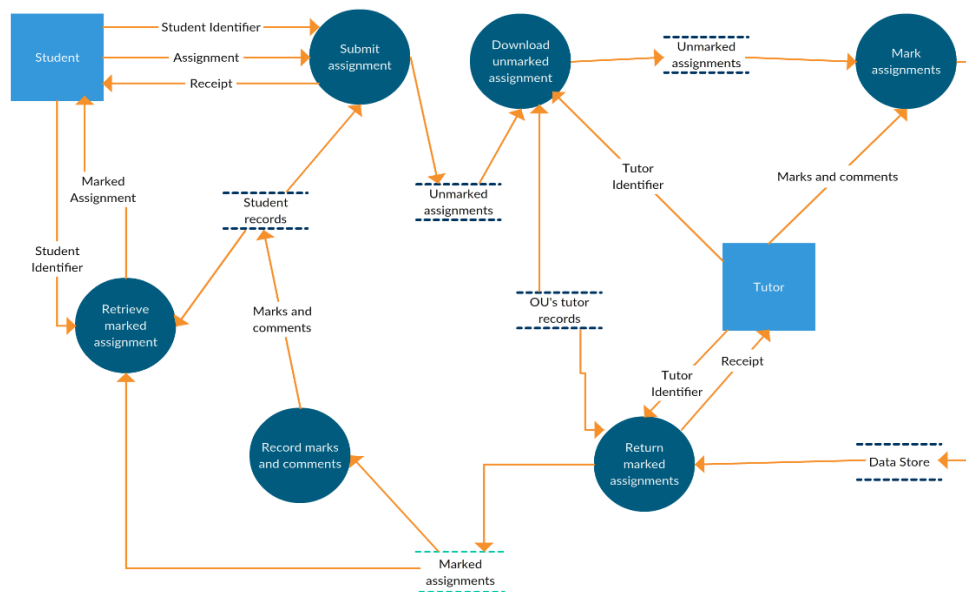
Evaluating Computer Setup: Students are responsible for ensuring that they have access to required hardware, software, and an Internet connection

Students have the responsibility of maintaining the security of their usernames, passwords, and personally identifiable information.

CHAPTER 4

Experimental or Materials and Methods Used

4.1 CONTEXT DIAGRAM



4.2 IMPLEMENTATION

The learning model is designed by integrating web-based learning in conventional face-to-face learning programs. The conventional face-to-face learning process is done using the Student-Centred Learning (SCL) approach through group work. Designing and implementing web-based learning, the steps are as follows, namely:

An educational program in improving the quality of learning in the school environment and in the campus with web-based. This program can be ideally carried out for 5-10 months and can be divided into 5 stages, stages 1, 3 and 5 can be done remotely and can choose web media as a communication tool. While stages 2 and 4 can be done conventionally face to face. Establishing a subject and teaching material that will be taught to students. Face-to-face learning can be done regularly every

week, namely in the first seven weeks. After that, face to face meetings is held every 2 or 3 weeks [7]. These two educational programs can be delivered to students through various types of group learning activities. Learning and doing assignments collaboratively in groups is very dominant in both program

Software Requirements:

Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.

XAMPP has the ability to serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package. XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite among others.

The Unified Modeling Language (**UML**) is a general-purpose, developmental, modeling language in the field of software engineering that is intended to provide a standard way to visualize the design of a system

Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.

Figma is a vector graphics editor and prototyping tool which is primarily web-based, with additional offline features enabled by desktop applications for macOS and Windows. The Figma mobile app for Android and iOS allows viewing and interacting with Figma prototypes in real-time mobile devices.

Hardware Requirement

Windows 10

i3/i5 Processor

Storage 1 TB

RAM 8 GB

Technology used

1.Frontend used

The Hyper Text Markup Language or **HTML** is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Cascading Style Sheets (**CSS**) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media. Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open-source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins.

React makes it painless to create interactive UIs. Design simple views for each state in your application, and react will efficiently update and render just the right components when your data changes. Declarative views make your code more predictable and easier to debug.

MUI offers a comprehensive suite of UI tools to help you ship new features faster. Start with Material UI, our fully-loaded component library, or bring your own design system to our production-ready components.

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

2.Backend used

JavaScript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites.

Node.js is primarily used for non-blocking, event-driven servers, due to its single-threaded nature. It's used for traditional web sites and back-end API services, but was designed with real-time, push-based architectures in mind.

Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.

Express provides a thin layer of fundamental web application features, without obscuring Node.js features that you know and love.

Socket.IO is an event-driven JavaScript library for real-time web applications. It enables real-time, bi-directional communication between web clients and servers. It has two parts: a client-side library that runs in the browser, and a server-side library for Node.js. Both components have a nearly identical API.

Axios is a JavaScript library used to make HTTP requests from node.js or XML Http Requests from the browser and it supports the Promise API that is native to JS ES6. It can be used to intercept HTTP requests and responses and enables client-side protection against XSRF. It also has the ability to cancel requests.

MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications.

The most common use for MySQL however, is for the purpose of a web database. It can be used to store anything from a single record of information to an entire inventory of available products for an online store.

3.Addition Concept used

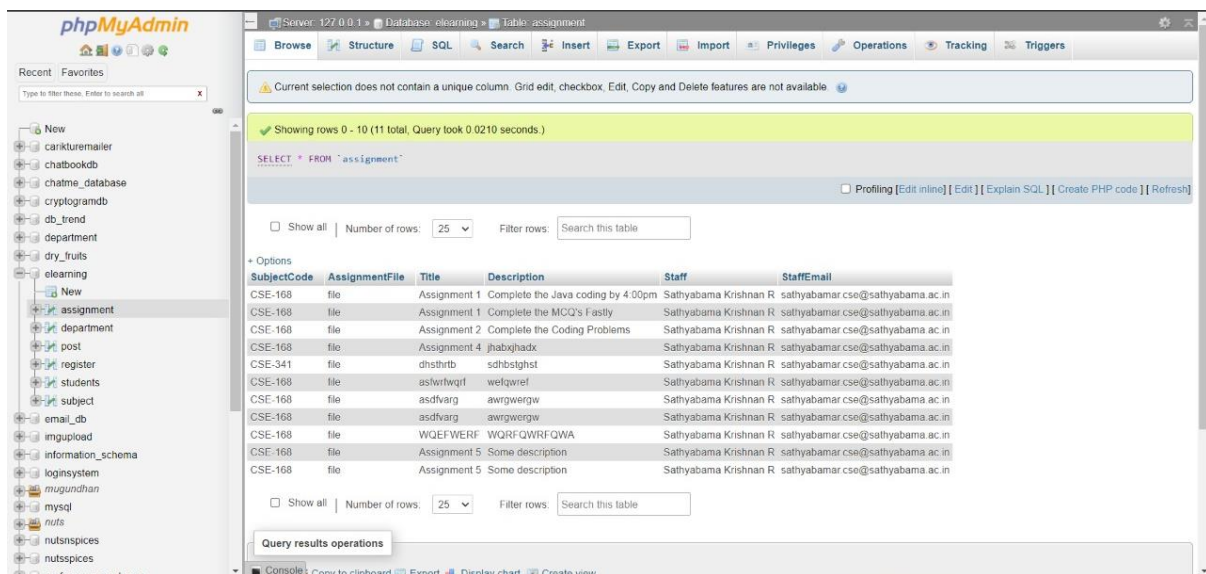
Machine learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy.

CHAPTER 5

RESULTS AND PERFORMANCE ANALYSIS

5.1 TABLES IN THE DATABASE

Assignment table



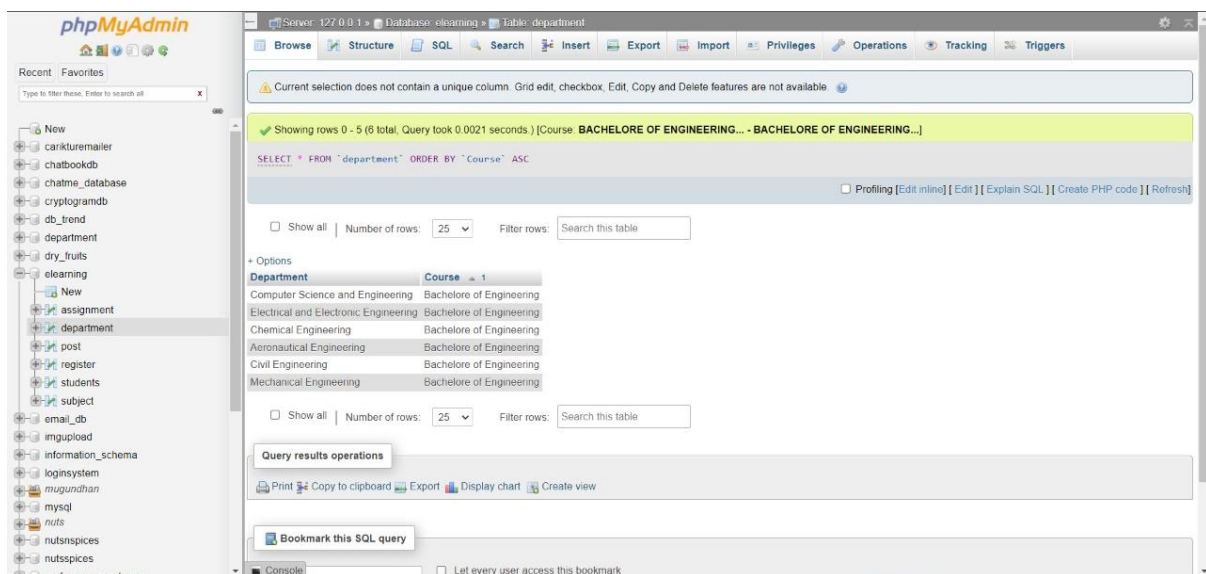
The screenshot shows the phpMyAdmin interface for the 'assignment' table. The table structure is as follows:

SubjectCode	AssignmentFile	Title	Description	Staff	StaffEmail
CSE-168	file	Assignment 1	Complete the Java coding by 4:00pm	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	Assignment 1	Complete the MCQ's Fastly	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	Assignment 2	Complete the Coding Problems	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	Assignment 4	jhabqhadx	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-341	file	dhsthrb	sdhbslghst	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	asdlwqrf	welqzref	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	asdlvarg	awngwergw	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	asdlvarg	awngwergw	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	WQEFWERF	WQRFQWRFQWA	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	Assignment 5	Some description	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in
CSE-168	file	Assignment 5	Some description	Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in

E-Learn is an e-learning platform. Learners can explore, enrol, study and get certificates from a variety of courses. Courses are grouped into multiple categories. A course may be presented in different categories. Each course has a unique course id (a number with two prefix letters – for example, CS585) and consists of materials, lectures and assignments. Materials could be general (for example, syllabus, textbook) or come from a lecture. Each lecture may have videos, notes, and materials (files, links...). Each assignment has a description, attached files and a deadline. Learners must submit their assignments online. Learners can view their

grades for each assignment (quite similar to USC blackboard). With lectures and assignments, learners and teacher may post comments. This is useful for teacher to provide any additional notes about the questions being asked, or for students to ask any questions regarding the lectures or assignments. A user has to register to enrol a course. Prices may vary from different courses. Different payment methods are available. The system should be flexible enough to easily add new payment method or remove an existing one. After completing the course, a user can see his/her grades in details and gets a certificate (if eligible). He/she can also rate the course (0-5 stars) or provide feedback. A course is created by its teacher. Multiple teachers are allowed to get involved in a course. There are also other roles (TA, graders) who have different permissions on different course operations. A course should start and end at certain time. It can be re-opened multiple times, for example, per semester or per year. Each time it is re-opened, there may be multiple adjustments (teachers, TA and graders, students, course content, assignments).

Department Table



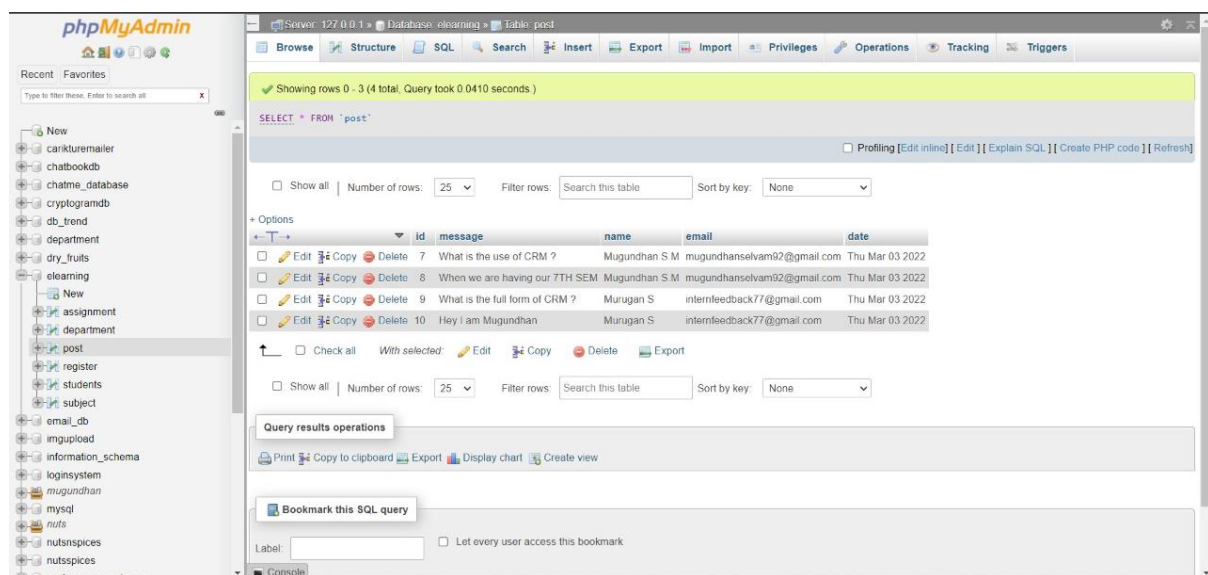
The screenshot shows the phpMyAdmin interface with the 'department' table selected. The table structure is as follows:

Department	Course
Computer Science and Engineering	Bachelore of Engineering
Electrical and Electronic Engineering	Bachelore of Engineering
Chemical Engineering	Bachelore of Engineering
Aeronautical Engineering	Bachelore of Engineering
Civil Engineering	Bachelore of Engineering
Mechanical Engineering	Bachelore of Engineering

The interface also shows the SQL query: `SELECT * FROM `department` ORDER BY `Course` ASC` and the number of rows (25).

We would have to do a lot of joins and negotiate a lot of complicated business logic, which would have caused high latency, Gupta says. So, Audible for Business built its application using a graph database, which can quickly query millions of relationships between data sets. Graph is a much simpler and more scalable solution for our use case.

Post Table



The screenshot shows the phpMyAdmin interface. The left sidebar lists various databases and tables, with 'post' selected under the 'cleaning' database. The main panel displays the 'post' table structure and data. The table has columns: id, message, name, email, and date. It shows 4 rows of data, each with a checkbox for selection and icons for edit, copy, and delete. Below the table, there are options for query results operations, including a bookmark section.

	id	message	name	email	date
☐	7	What is the use of CRM ?	Mugundhan S M	mugundhanselvam92@gmail.com	Thu Mar 03 2022
☐	8	When we are having our 7TH SEM	Mugundhan S M	mugundhanselvam92@gmail.com	Thu Mar 03 2022
☐	9	What is the full form of CRM ?	Murugan S	internfeedback77@gmail.com	Thu Mar 03 2022
☐	10	Hey I am Mugundhan	Murugan S	internfeedback77@gmail.com	Thu Mar 03 2022

This table contains the all the post details that students has posted. By using this method, we can monitor the student's activity and control them

Subject Table

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0884 seconds)

SELECT * FROM `subject`

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table

Course	Department	Section	SubjectName	SubjectCode	SubjectDescription	SubjectChapter	Name	Email
Bachelore of Engineering	Computer Science and Engineering	B.E.F.G.	Core JAVA	CSE-168	JAVA is a programming Language, Developed by Santo...	file	Sathyabama Krishnan R	sathyabamar cse@sathyabama.ac.in
Bachelore of Engineering	Computer Science and Engineering	B.E.G.	Core C++	CSE-341	C++ is a programming language, developed by buddy	file	Sathyabama Krishnan R	sathyabamar cse@sathyabama.ac.in
Bachelore of Engineering	Computer Science and Engineering	D.F.G.	Core Python	CSE-170	Introduction to machine learning	file	Sathyabama Krishnan R	sathyabamar cse@sathyabama.ac.in
Bachelore of Engineering	Computer Science and Engineering	A.C.F.	Core C#	CSE-172	C# OOPS	file	Sathyabama Krishnan R	sathyabamar cse@sathyabama.ac.in

Query results operations: [Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Console: mark this SQL query

This subject table has all the details of staff activity (Number of course they had added unit now, no of section they gave permission to access the course document, Subject code, Email-id, Department, Subject Description, etc...

Students Table

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 1 (2 total, Query took 0.1363 seconds)

SELECT * FROM `students`

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table

Name	Email	Phone	RollNumber	RegisterNumber	Course	Department	Section	Year
Mugundhan S M	mugundhanselvam92@gmail.com	9344030062	18scs5090	38110332	B.E	Computer Science and Engineering	G	4
Murugan S	muruganmaddy6@gmail.com	9236574392	18scs3411	38110341	B.E	Chemical Engineering	E	3

Query results operations: [Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Register Table

Server: 127.0.0.1 - Database: elearning - Table: register

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total. Query took 0.0026 seconds.) [Category: STAFF... - STUDENT...]

SELECT * FROM 'register' ORDER BY 'Category' ASC

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Options

Name	Email	RegisterNumber	RollNumber	Secret	Password	Department	DOB	Status	Category
Sathyabama Krishnan R	sathyabamar.cse@sathyabama.ac.in	38110300	18scs1000	536421	F*56x1	Not Mentioned		active	staff
Mugundhan S.M	mugundhanseiyam92@gmail.com	38110332	18scs5090	50151	pqxJJSsb	Not Mentioned		active	student
Jhadvjad	damele2429@ketchet.com	38110343	18scs3028	339483	lmOePBTh	Not Mentioned		active	student
Murugan S	internfeedback77@gmail.com	38110341	18scs6754	52664	rDJ6X7RK	Not Mentioned		active	student

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console

By using purpose-built databases for specific business tasks, organizations are reaping the value of their huge and constantly growing data volumes. Each type of database plays a key role in the larger cloud infrastructure. Janssen's Thakkar, who sees himself as a conductor of sorts, reflected, The value is in the data, but the power is in the orchestration of customer engagement using traditional and predictive insights.

5.2 RESULT

Student can get their course document access instead of actually going and waiting in the library like for an hour.

E-learning is completely online from end to end so it follows all covid regulations. It makes the students feel safe and they can submit their assignment in the platform in easy phase.

The control of this web application is completely controlled by college Management. It makes the website more trustable among staff and students.

The system saves both time and travelling efforts of students.

E-learning makes the process simple like checking assignment submission probability, maintaining attendance counting, conducting online lectures & exam.

Chapter 6

Conclusion

Though online learning has several challenges such as lack of feedback from students, these limitations can be overcome by upgrading the E-Learning systems and the use of online discussion forums and new web-based software's.

I would therefore recommend that online learning be implemented on all learning institutions and research on how to improve this learning process should be carried out. In the process of research, I came to know about the various ML technique and its different algorithm which helps to solve real-world problems

E-learning is becoming increasingly prominent in tertiary education. All available evidence points toward growing enrolments and provision albeit from a low starting point. However, after the hype of the new economy, growing disenchantment with e-

learning has replaced over-enthusiasm. Failures of e-learning operations have, at least temporarily, overshadowed the prospects of widened and flexible access to tertiary education, pedagogic innovation, and decreased cost that was once embodied by e-learning.

In conclusion, we can see that culture is a key contributor to the success of e-learning. It is important for e-learning course providers to include a study and analysis of the culture of the target student group in the planning stage. The suggested strategies are only a guideline for e-learning providers. They should take these into account and use as applicable to the delivery of the course. Students have to realize that to follow an e-learning course, requires them to have a complete change of their mindset. They need to be more proactive in their studies and not expect to be spoon-fed. It is important for the government to play the biggest role. It has to work to promote e-learning especially in rural area. It has to create various partnerships and form a centralized body for the development of e-learning. Unfortunately, addressing culture alone will not solve the e-learning situation in South Asia. There still has to be a vast development of the infrastructure to support the delivery of e-learning. The education system in these countries requires a change in the methods of teaching to empower the student to study on his or her own.

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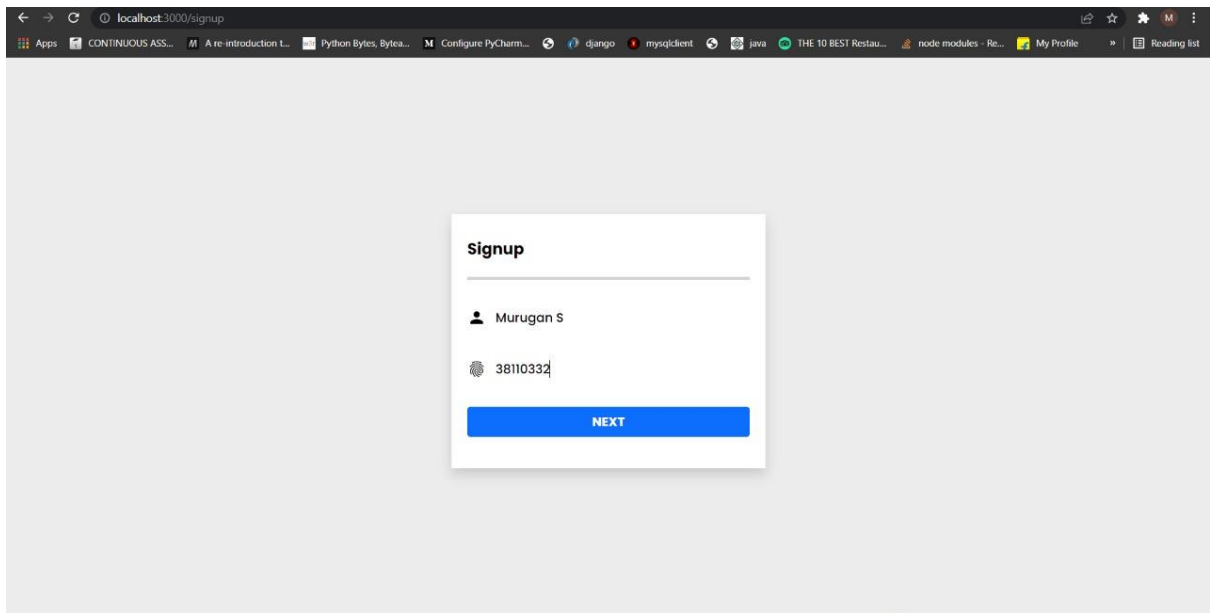
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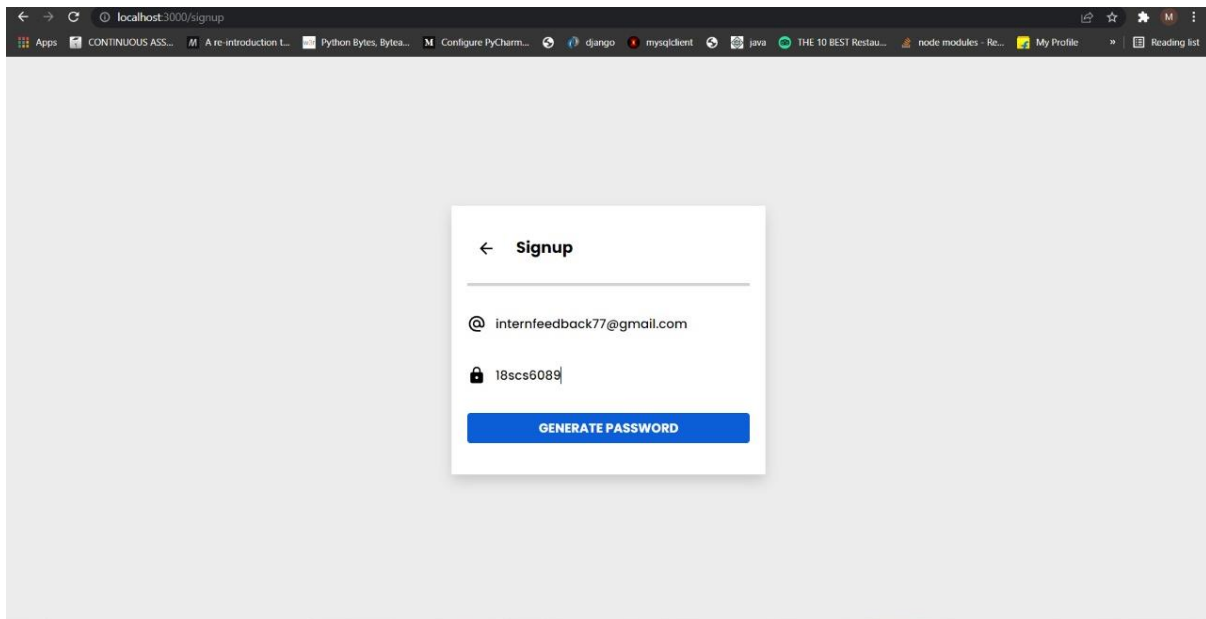
SCREENSHOT

6.1 Signup page(i)

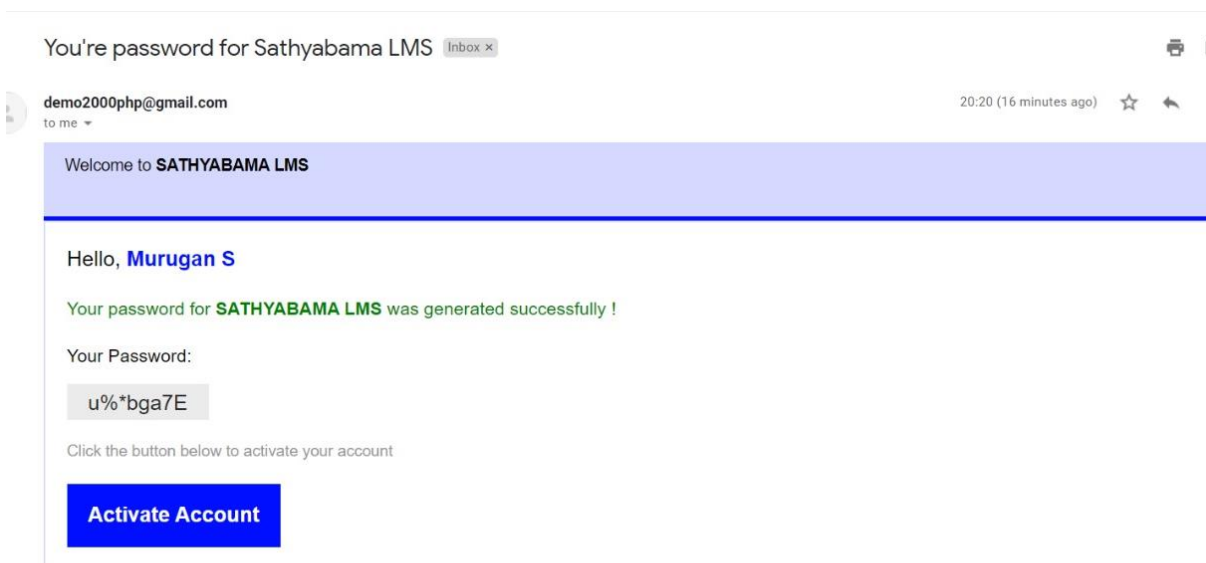


An e-learning sign-up form is used to let students register for an online course, class, or program. With our free E-learning Sign-up Form, remote classrooms can collect student contact details, e-signatures, and fee payments at the same time. Simply customize the form, integrate it with your preferred payment gateway, and share it with students or embed it in your website. All e-learning sign-ups will be sent directly to SQL database account, easy to view and process on device

6.2 signup page(ii)

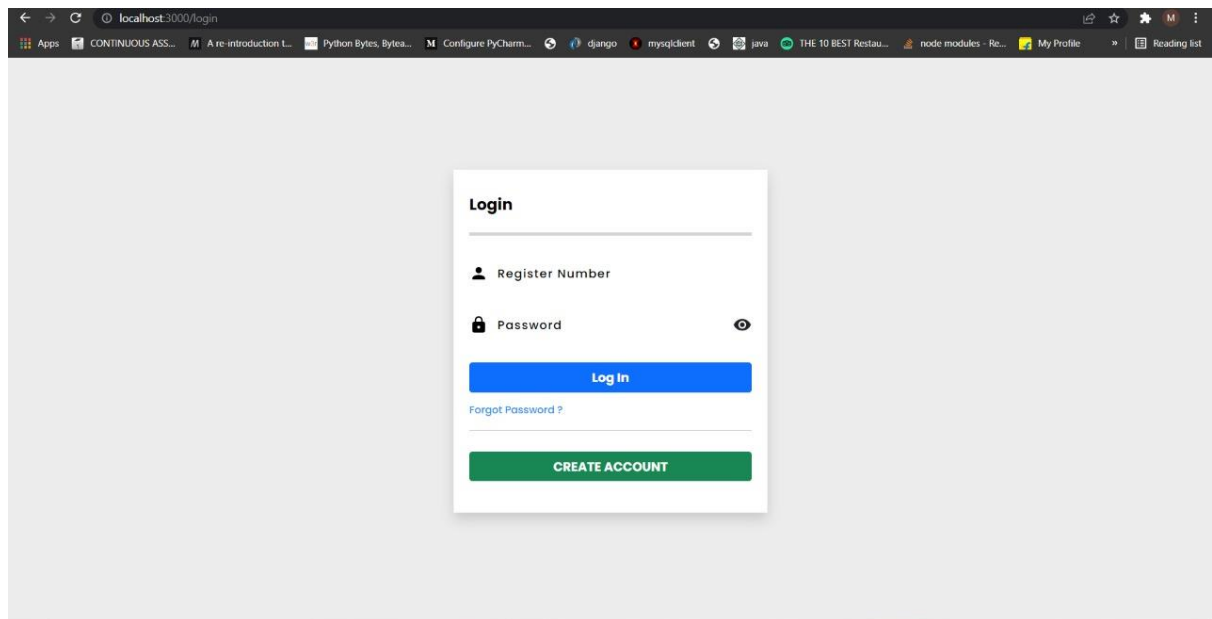


6.3 Account Password

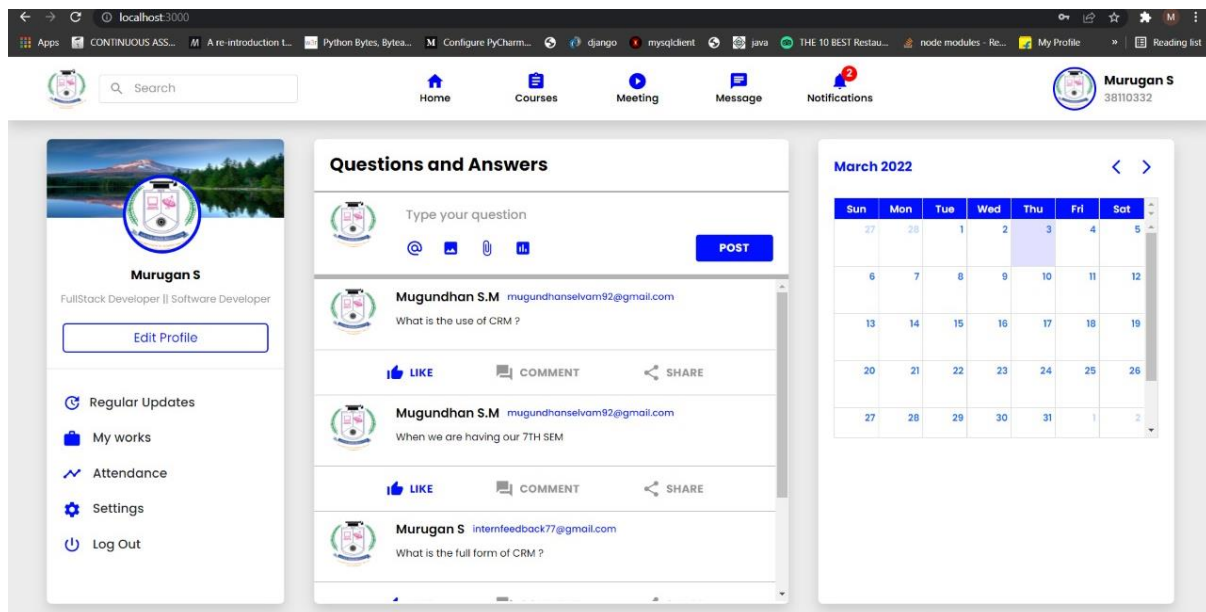


systems designed to generate site-specific passwords on demand. Such systems are an alternative to password managers. Over the last 15 years a range of password generator systems have been described. This paper proposes the first general model for such systems, and critically examines options for instantiating this model; options considered include all those previously proposed as part of existing schemes as well as certain novel possibilities. The model enables a more objective and high-level assessment of the design of such systems

6.4 Login page



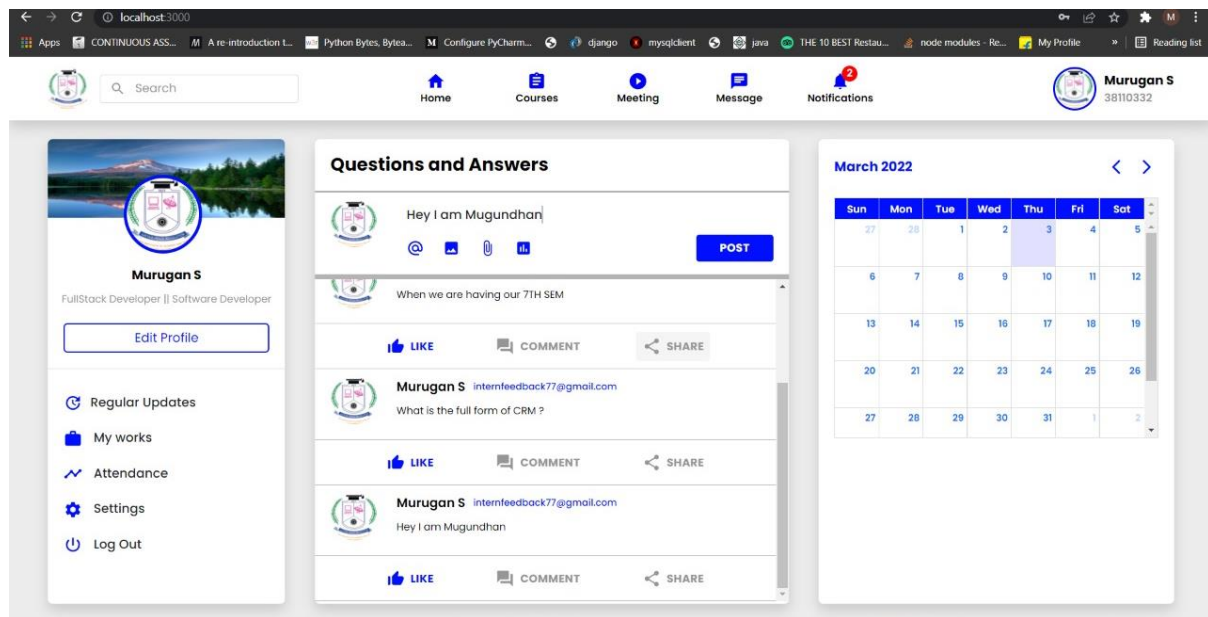
6.5 Home page



E-learning is a structured course or learning experience delivered electronically it can also include performance support content. There are also many different elements that can make up an e-learning program, such as live or pre-recorded lecture content, video, quizzes, simulations, games, activities, and other interactive elements.

Keep in mind that you may also see the term e-learning more broadly as a catchall for *any* learning content delivered electronically. While ATD style uses a hyphen in the spelling, you may also see it spelled *e-learning* or *eLearning*. E-learning courses are typically managed and administered via a learning management system (LMS).

6.6 Posting query page



e-learning provides a single source of learning materials ensuring that the content delivered is identical for all learners and is of the highest possible quality.

Online e-learning courses are quick and easy to update across the board without needing to spend time and money organizing and distributing paper, CD or DVD based content and materials.

e-learning is reliable, dependable and accessible around the clock via an internet connection.

e-learning is easy to manage and control online via our Learner Management System (LMS).

One of the most obvious benefits is the potential to reduce costs associated with training and development of employees without the need of travel and accommodation for them at a centralized location. Because e-learning can be taken anytime, anywhere, it doesn't interfere with critical operations of the employee.

e-learning is standardized: every learner has access to the same high quality instruction. e-learning eliminates the problems associated with different instructors teaching slightly different material on the same subject. This also ensures all learners receive a consistent message.

New e-learning for iPads and HTML5 means enabling your existing legacy e-learning content to be migrated to a tablet compatible format, and our solutions will help you in taking the first steps in an easy and a cost-effective way.

6.7 meeting credentials page (Staff Control)

The screenshot shows a web application interface with a dark top bar containing various icons and a search bar. Below this is a navigation bar with links for Home, Courses, Meeting, Message, and Notifications. A user profile for 'Murugan S' with ID '38110332' is visible on the right. The main content area is titled 'Meet History' and contains a modal window titled 'Enter into the meet'. This modal has two input fields: the first contains '38110300-Sathyabama Krishnan R' and the second contains '53642'. A blue 'JOIN MEET' button is at the bottom of the modal.

Apps CONTINUOUS ASS... M A re-introduction L... Python Bytes, Bytea... M Configure PyCharm... django mysqlclient java THE 10 BEST Restau... node modules - Re... My Profile Reading list

 Search

[Home](#) [Courses](#) [Meeting](#) [Message](#) [Notifications](#)

 **Murugan S**
38110332

Meet History

Enter into the meet

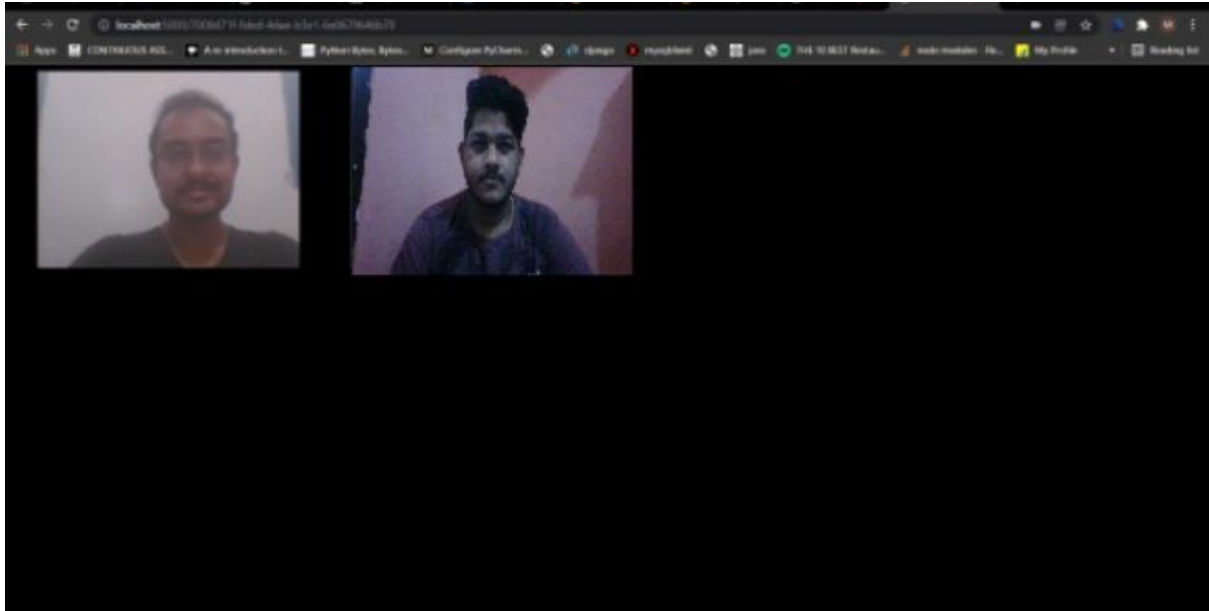
38110300-Sathyabama Krishnan R

53642

JOIN MEET

Students can enter into the meeting hall after receiving authentication code from the staff. After receiving authentication, they can enter their reg no and key to enter into the meeting hall

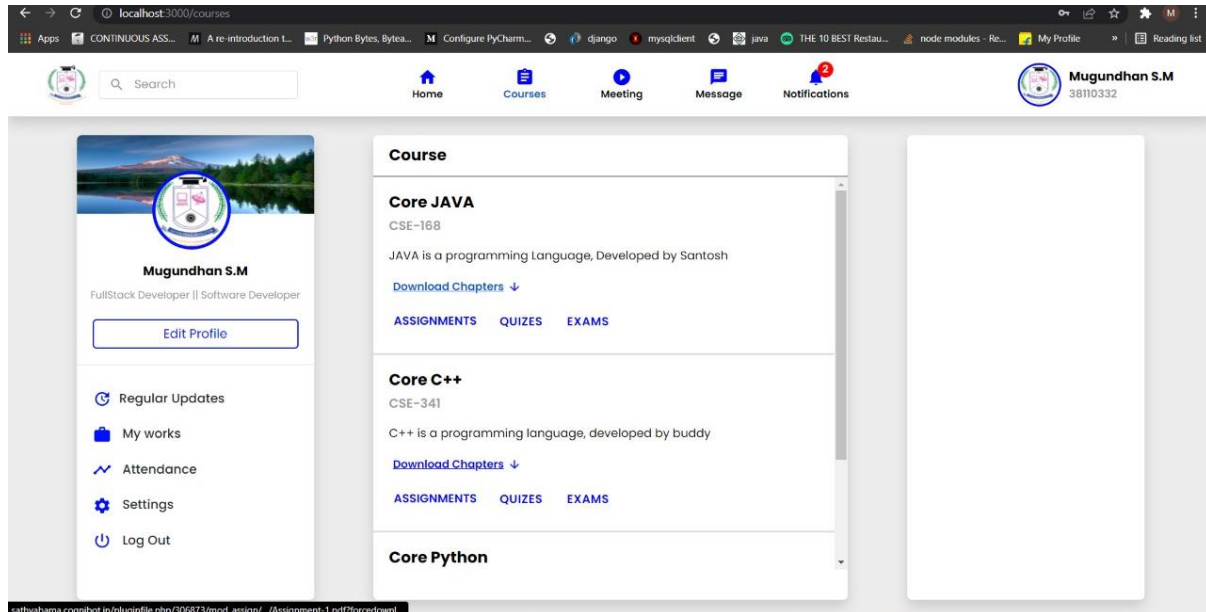
6.8 Meeting Room



Meeting Room enables you to connect with your instructors when you're unable to meet in person. Whether this means logging in to see live presentations designed to educate an entire class or scheduling a one-on-one video meeting so you can ask questions about a specific assignment or exam, this meeting has makes it possible to actually see and interact with each other. This can be especially beneficial to visual learners who rely on their eyes to take in and process the information presented.

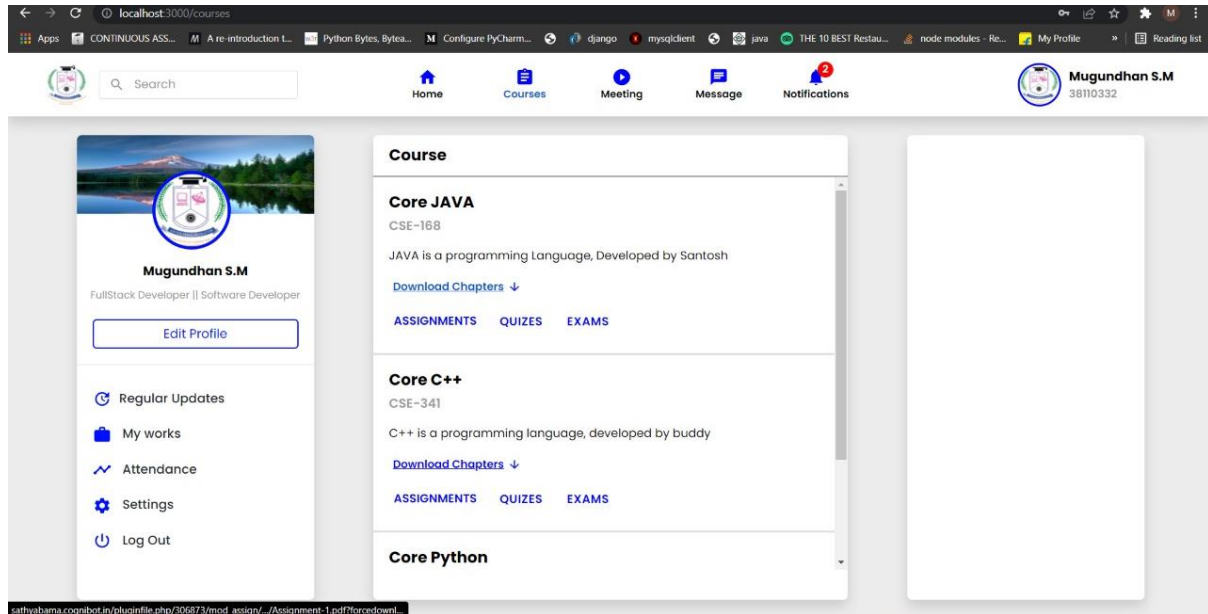
With meeting, you can also connect with other students who are learning from home. If you have a group project, for instance, you can schedule a video conference to talk about what you're going to do or discuss your progress. Or maybe you just want to talk to other people in your class in an effort to expand your network. Meeting is good for that too!

6.9 Course creation page (Staff Control)

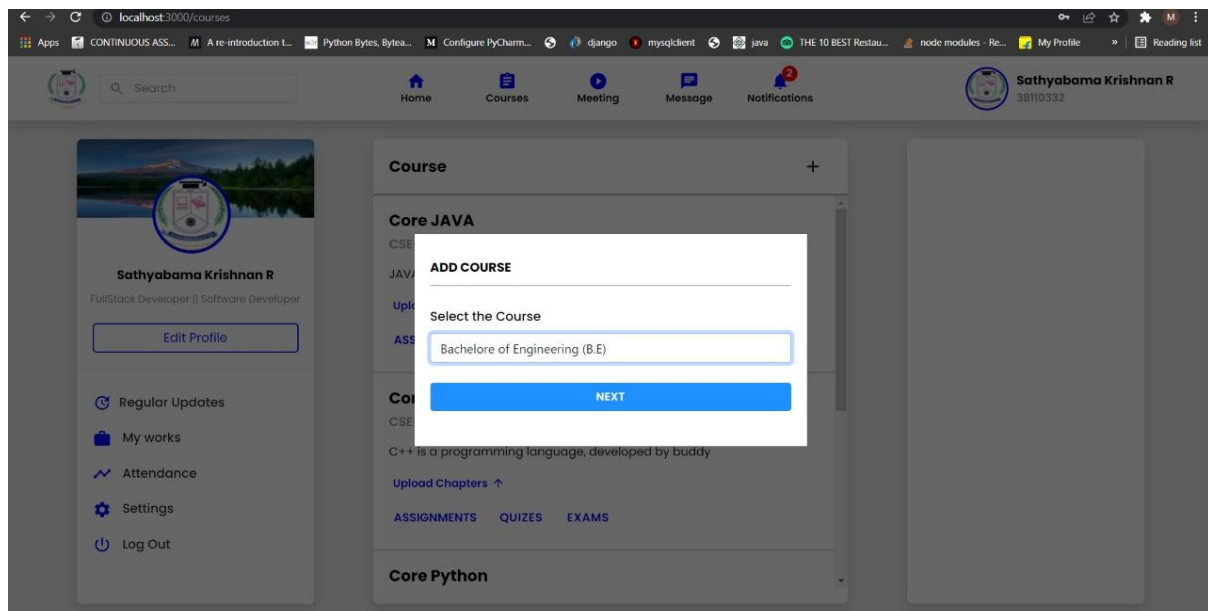


Earlier creating online courses used to involve various experts in software development, IT and instruction. Today it's not that difficult because of the new tools that are available now. Online course creation can also seem intimidating. It can be a source of stress considering how busy you and staff are. But with eLearning tools, you can easily build online courses for your employees. Resulting in a scalable training program that improves your staff performance and engagement.

6.10 Course Access (Student Control)



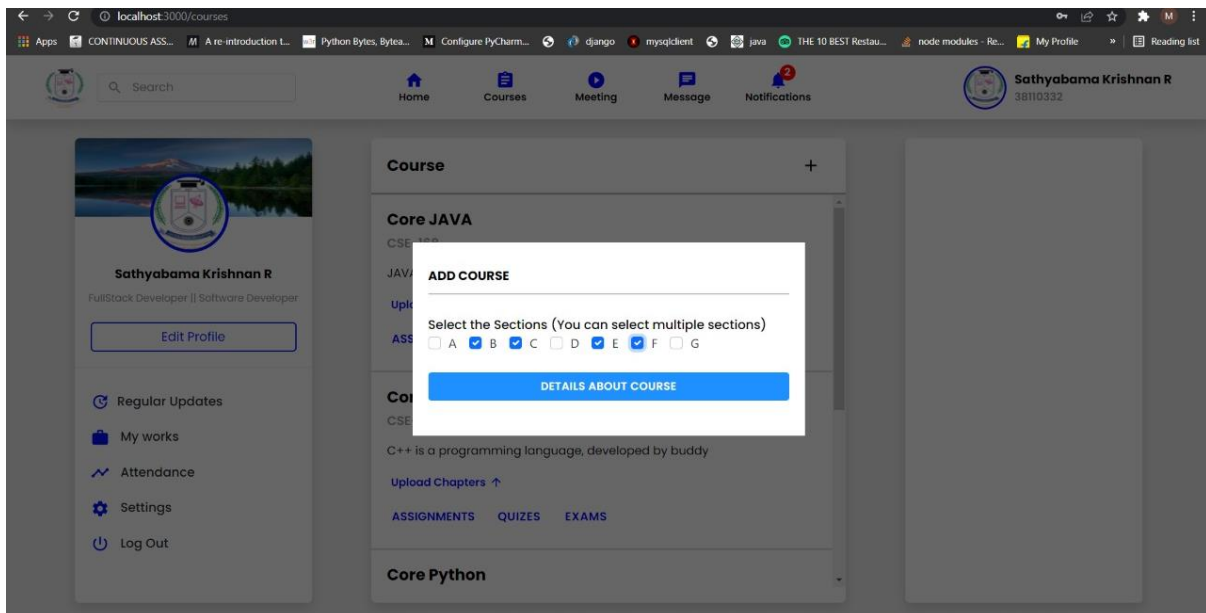
6.11 Course Creation (Selection of Department)



Add, remove or rearrange modules while thinking about your employee learning paths. And create a course that slowly increases in difficulty. Each module should be

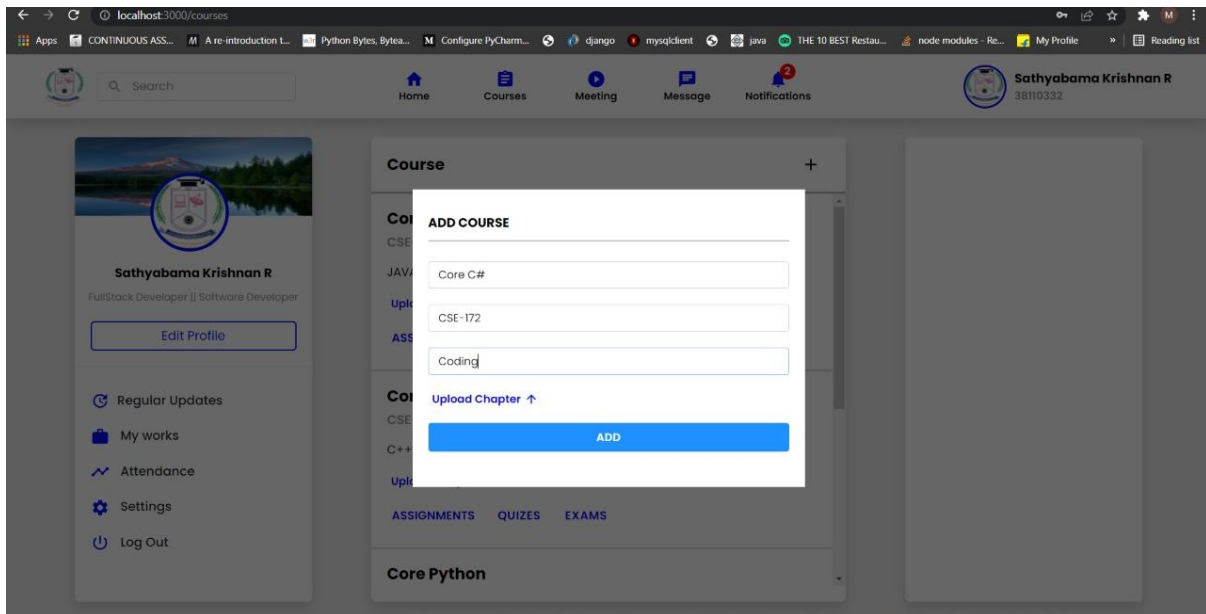
made on the skills and knowledge that they gained in the previous module. Choose which modules to keep and give each module an active statement title. You can also include online tests/surveys/quizzes in each module. This will help your staff to use their new knowledge and learn from feedback. This will also help you to track their progress as they proceed from module to another.

6.12 Course Creation (Selection of Class Section)



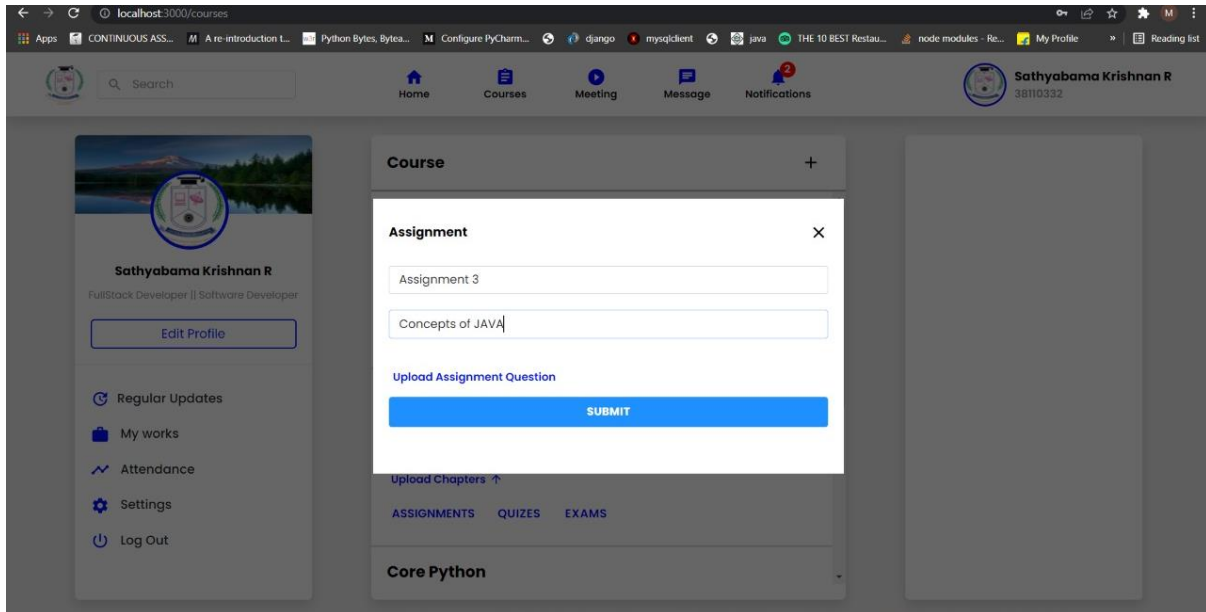
After selecting the course title click the section in which your want to upload the document of the course, all the uploaded document will be updates in firebase and it will be available in the particular to the particular section students

6.13 Adding course



The final step is to upload the course content to your LMS. Depending on how you structure your content, it can either be seamless with a single click or difficult with multiple clicks. So, make sure that the learner flow is easy to access for your workforce. Your LMS can provide simplified access by methods like enabling single sign-on, and ensuring course delivery, etc. You should choose the right LMS for your training needs. It should be a cloud-based, easy to use and customizable platform. Also, interact with your employees in discussion forums. Send them reminders to access the courses, interact with the content and finish the training program. All this will make your online courses an engaging experience.

6.14 Adding Assignment



Homework is one aspect of the general education curriculum that has been widely recognized as important to academic success. Teachers have long used homework to provide additional learning time, strengthen study and organizational skills, and in some respects, keep parents informed of their children's progress. Generally, when students with disabilities participate in the general education curriculum, they are expected to complete homework along with their peers. But, just as students with disabilities may need instructional accommodations in the classroom, they may also need homework accommodations. Many students with disabilities find homework challenging, and teachers are frequently called upon to make accommodations for these students