VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

A DBMS MINI PROJECT REPORT ON

STUDY MATERIAL MANAGEMENT SYSTEM

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE & ENGINEERING

By

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CERTIFICATE

This is to certify that the DBMS Mini Project entitled **"STUDY MATERIAL MANAGEMENT SYSTEM"** has been successfully completed by

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the bonafide students of **Department of Information Science & Engineering, Alva's Institute of Engineering and Technology** in **DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2018–2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the Bachelor of Engineering Degree.

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Mini Project Guide	**HOD ISE**

EXTERNAL VIVA

Name of the Examiners	**Signature with Date**
1.	
2.	

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Declaration

We,

SHARAN KUMAR
SUDHEER

hereby declare that the dissertation entitled, Study material management system is completed and written by us under the supervision of our guide **Mr. JayanthKumar A Rathod, Associate Professor, Department of Information Science and Engineering, Alva's Institute of Engineering And Technology, Moodbidri, DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during theacademic year 2018-2019.The dissertation report is original and it has not been submitted for any other degree in any university.

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The satisfaction and euphoria that accompany a successful completion of any task would be incomplete without the mention of people who made it possible, success is the epitome of hard work and perseverance, but steadfast of all is encouraging guidance.

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ABSTRACT

As the world is being developed with the new technologies, discovering and manipulating new ideas and concepts of taking everything online are rapidly changing. It is difficult for teacher's to circulate their notes to each and every student whom is he/she teaching. College Notes Gallery provide an easy approach for both students and teachers to circulate the notes whether of any kind like lecture notes, assignment questions, question papers and all the important documents. The teachers and students can upload the documents from anywhere and students can download it. Overall it is managed by the admin.

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LIST OF FIGURE

"STUDY MATERIAL MANAGEMENT"

Chapter 1

1. INTRODUCTION

1.1 INTRODUCTION

College Notes Gallery is a web based notes sharing and management system which helps students and teachers to share their notes online effectively. It reduces the wasting of time in manually distributing notes to each individual. It greatly overcomes the lack of availability and converts the manual old school paperwork to a fully automated and managed online system. College Notes Gallery allows it's users to securely register and log in to their individual accounts and create, read , update, delete notes according to their needs. It provides notes to everyone in a very secure manner. Multiple users can work in this system at the same time under centralized supervision by administrator. It is a very useful notes management system for Colleges, Schools and other Institutes to manage and share their notes in an secure, efficient and effective manner.

1.2 PROBLEM STATEMENT

This software will reduce the manual work and take this entire classroom experience online. By maintaining notes manually, there is no guarantee of error free notes. When the notes are uploaded online, both the teachers as well as the students have access to them 24x7.Therefore, everyone can download the required notes, prepare for exams and delete them when they are done. This will save tons of paper and hence, can be regarded as a green initiative.

Maintaining notes electronically also increases efficiency. Students or teachers who have additional notes about a given topic can also upload the notes instantly. The additional feature of **"Connect to Classroom"** that Study Management provides also brings the students and teachers closer. Students can ask doubts to teachers or to their fellow students and improve their academic knowledge. Teachers can also provide important updates to the students. Therefore, Study Management provides a holistic experience to the users.

1.3 MOTIVATION AND OBJECTIVE:

Study Management is a user-friendly classroom assistant software. It helps both the teachers as well students to remain up-to-date and manage their work. It is a web-based application and it makes aspects of education available online. Study Management combines all the essential tools for assignment submission, interacting with teachers and many others in one easy-to-use application. By making everything paperless, work will never be misplaced and students will increase their efficiency by keeping up with their deadlines.

The objectives of the system are-

¬ To reduce manual paperwork.

¬ Reduced sharing and distribution time.

¬ Increased reliability.

¬ Increased operational efficiency.

¬ Data security.

This Notes Management System can be readily used by non-programming personal avoiding human handled chance of error. This project is used by Three types of users i. Students. ii. Teachers iii. Administrators Students and Teachers can create their accounts and start viewing notes shared by other users as well as upload their own notes. Administrator is must be an authorized user who will keep track of all the uploaded notes and manage users as well through the admin panel. New features can be added to the system as per requirements

Chapter 2

2. SYSTEM DESIGN

2.1 SCHEMA DIAGRAM

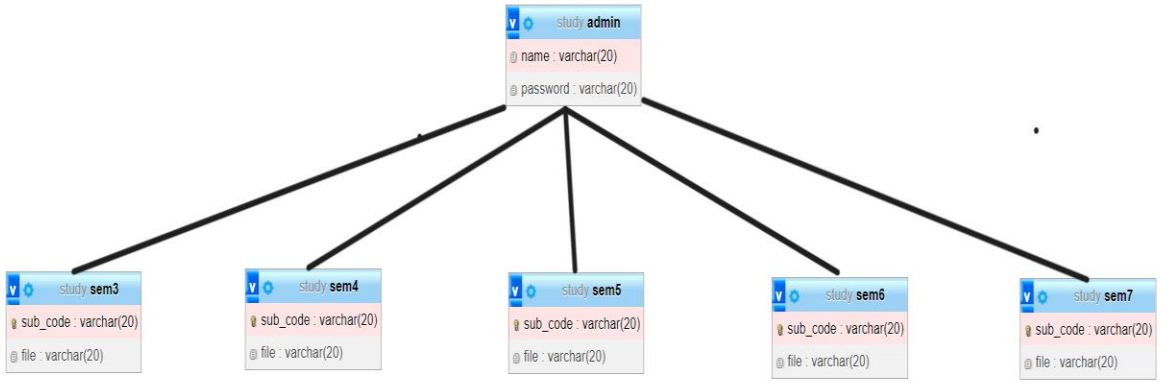

Fig.2.1 Schema diagram of Study material management

A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associate ed. It formulates all the constraints that are to be applied on the data.

TABLE DESCRIPTION

1. ADMIN TABLE

Sl.No	Field Name	Field Type/Size	Constraint	Description
1.	Name	Varchar[20]	_____	It stores the username.

2. SEM 3 TABLE:

Sl.No	Field Name	Field Type/Size	Constraint	Description
1.	Sub_code	Char[20]	Primary key	It stores the subject code.
2.	File	Char[20]		It stores the file name

3.SEM4 TABLES:

Sl.No	Field Name	Field Type/Size	Constraint	Description
1.	Sub_code	Varchar(20)	Primary key	It stores the subject code.
2.	Files	Varchar[10]		It stores the files name.

4.SEM5 TABLES:

Sl.No	Field Name	Field Type/Size	Constraints	Description
1.	Sub_code	VarChar[10]	Primary code	It stores the subject code.
2.	File	Varchar[10]		It stores the file names.

2.2 ER DIAGRAM

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system.

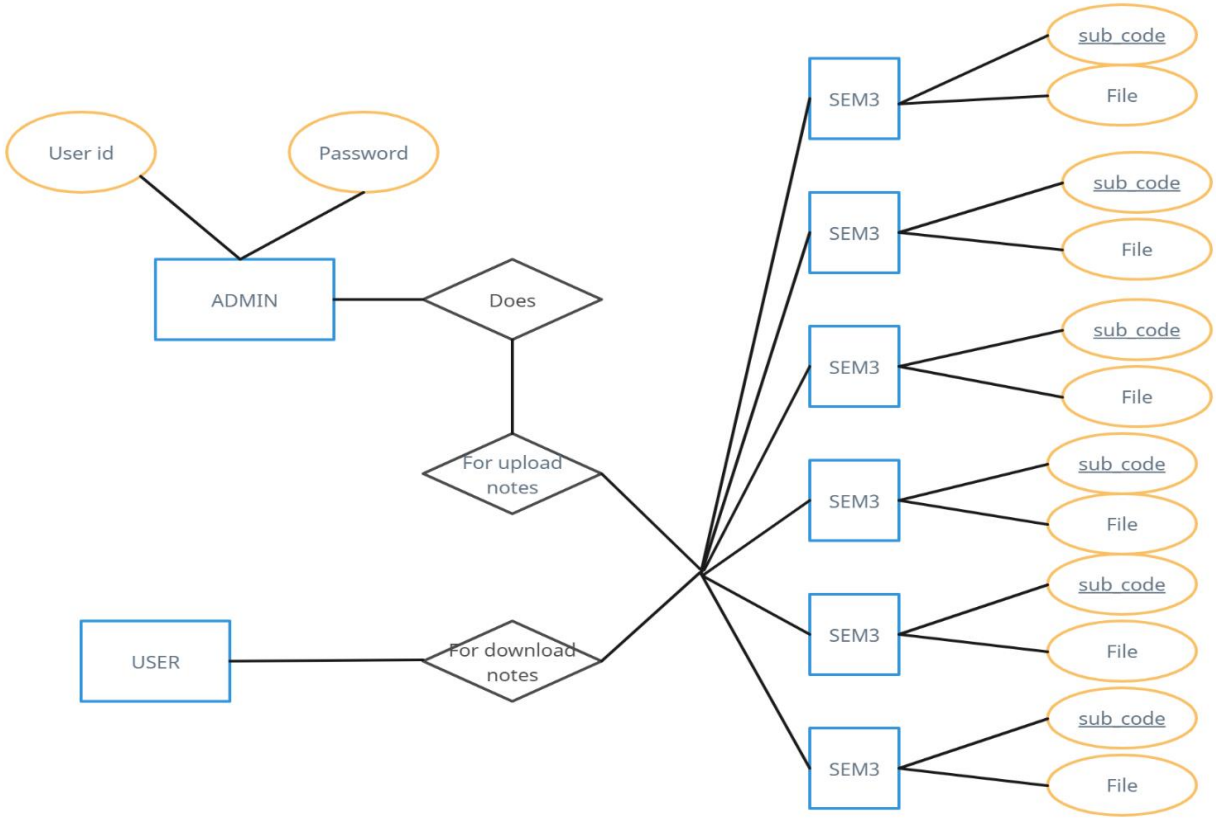

Fig.2.26 ER Diagram of Study material management

DESCRIPTION

A module is a separate unit of software. Each module has its own functions along with its own components. When a project is divided into modules, it makes the idea clearer and the implementation easier. [1] Each of the features of Study Management will be implemented as separate modules. The modules are designed in such a way that only authorized personnel have access to them, this, therefore, ensures security.

Notes Management has five modules, namely:

1. Home
   Home Page
   know more
2. Log In
   Teacher Log In
   Student Log In
3. Function
   Upload
   Download

As mentioned above, the application Study Management has six modules. Each modules name and explanation are given below:

1. LOG IN:

This module is only applicable after registration is completed successfully. This module will allow the users to access their own account by entering only their username and password. After logging in, the users can access their accounts to complete the required work. It has two sub-modules, they are as follows:

Teacher log In:

The teacher can log in with their username and password after registration. This module is only for teachers. They can log in and complete their required work.

Student log In:

The student can log in with their username and password after registration. This module is only for teachers. They can login and complete their required work which may be upload and download notes .

2. HOME:

This module does not perform any operation. It only displays information about the website to the users. This module helps the users to understand the application better andutilize it. It is an important module from the users point of view. It has three sub- modules. They are:

Home Page:

The home page allows the users to register if they do not have an account. They can choose the required branch for the users by clicking the button "CSE,ISE".

Features:

The features menu provides information about the software in terms of its functionality and its uses. It describes to the users how the software is easy-to-use and explains the steps to be taken by a user using it for the first time.

Know more:

The know more page allows the developers details to provide feedback to from the users.

3. FUNCTION:

This module allows the users to perform various functions through the software. The true purpose of the software lies in the said module. It has two sub-modules. They are as follows:

Upload:

The upload module performs the main objectivity of this application. This module allows the users" i.e. both the teachers and the students to upload notes. Additionally, theteachers can also upload important questions or previous year question papers to help thestudents in their exams.

Download:

This module allows the students and teachers to download the uploaded notes. The download can be performed instantly and therefore, Notes Management provide 24x7 access to notes.

Chapter 3

3.IMPLIMENTAION

In this chapter the implementation details of the project has been specified.

3.1 LANGUAGE USED FOR IMPLEMENTATION

The languages used for implementation is as follows

- Front end :- PHP,HTML,CSS & JavaScript
- Back end :- MySQL

SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENT SPECIFICATIONS (Minimum requirements):

- Minimum 350MB Hard Disk space for installation
- 4GB Hard Drive space required
- Recommended minimum CPU - Pentium 4, 3.2GHz
- Recommended 1GB RAM
- Network card

SOFTWARE REQUIREMENT SPECIFICATIONS (Minimum requirements):

- Operating System: Windows 10 and above
- Front-End Language: HTML
- Back-End Language: PHP, MySQL
- Server: XAMPP

HTML:

Hypertext Markup Language (**HTML**) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a webserver or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects, such as interactive forms, may be embedded into the rendered page. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets. Tags such as <img /> and <input /> introduce content into the page directly. Others such as ... surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them tointerpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript which affect the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), maintainer of both the HTML and the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.

HTML markup consists of several key components, including those called *tags* (and their

attributes), character-based *data types*, *character references* and *entity references*. HTML tags most commonly come in pairs like <h1> and </h1>, although some represent *empty elements* and so are unpaired, for example <img>. The first tag in such a pair is the *start tag*, and the second is the *end tag* (they are also called *opening tags* and *closing tags*).[6]

The following is an example of the classic Hello world program, a common test employed for comparing programming languages, scripting languages and markup languages. This example is made using 9 lines of code:

The World Wide Web is composed primarily of HTML documents transmitted from web servers to web browsers using the Hypertext Transfer Protocol (HTTP). However, HTTP is used to serve images, sound, and other content, in addition to HTML. To allow the web browser to know how to handle each document it receives, other information is transmitted along with the document. This Meta data usually includes the MIME type (e.g. text/html or application/xhtml+xml) andthe character encoding (see Character encoding in HTML).[3]

PHP:

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Development Team. PHP originallystood for *Personal Home Page*, but it now stands for the recursive acronym*PHP: Hypertext Preprocessor*.

results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement stand alone graphical applications.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

The PHP language evolved without a written formal specification or standard until 2014, leavingthe canonical PHP interpreter as a *de facto* standard. Since 2014 work has gone on to create a formal PHP specification.

The mascot of the PHP project is the elePHPant, a blue elephant with the PHP logo on its side, designed by Vincent Pointer in 1998. The elePHPant is sometimes differently colored when in plush toy form.

PHP is an amazing and popular language!

It is powerful enough to be at the core of the biggest blogging system on the web (WordPress)!
It is deep enough to run the largest social network (Facebook)!
It is also easy enough to be a beginner's first server side language!

Features of PHP:

- PHP can generate dynamic page content.
- PHP can create, open, read, write, delete, and close files on the server.
- PHP can collect form data.
- PHP can send and receive cookies.
- PHP can add, delete and modify data in your database.
- PHP can be used to control user-access.
- PHP can encrypt data.
- With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.[8]

The following code demonstrates a simple PHP program:

The PHP interpreter only executes PHP code within its delimiters. Anything outside its delimiters is not processed by PHP, although non-PHP text is still subject to control structures described in

PHP code. The most common delimiters are *<? php* to open and *?>* to close PHP sections. The shortened form *<?* Also exists. This short delimiter makes script files less portable,since support for them can be disabled in the local PHP configuration and it is therefore discouraged. However, there is no recommendation against the use of the echo short tag

<? =.Prior to PHP 5.4.0, this short syntax for *echo ()* only works with the *short_open_tag* configuration setting enabled, while for PHP 5.4.0 and later it is always available. The purpose of all these delimiters is to separate PHP code from non-PHP content, such as JavaScript code or HTML markup.[10]

MySQL:

MySQL is an open-source relational database management system (RDBMS).Its name is a combination of "My", the name of co-founder Michael Widenius' daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm,the Swedish company MySQLAB, now owned by Oracle Corporation.[9] For proprietary use, several paid editions are available, and offer additional functionality.

MySQL is a central component of the LAMP open-source web application software stack (and other "AMP" stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python". Applications that use the MySQL database include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, and Drupal. MySQL is also used in many high-profile, large-scale websites, including Google (though not for searches), Facebook, Twitter, Flickr, and YouTube.

MySQL is written in C and C++. Its SQL parser is written in yacc, but it uses a home-brewed lexical analyzer. MySQL works on many system platforms, including AIX, BSDi, FreeBSD, HP-UX, eComStation, i5/OS, IRIX, Linux, macOS, Microsoft Windows, NetBSD, Novell NetWare,

OpenBSD, Open Solaris, OS/2 Warp, QNX, Oracle Solaris, Symbian, SunOS, SCO Open Server, SCO UnixWare, Sanos and Tru64. A port of MySQL to OpenVMS also exists.

The MySQL server software itself and the client libraries use dual-licensing distribution. They are offered under GPL version 2, beginning from 28 June 2000 (which in 2009 has been extended with a FLOSS License Exception) or to use a proprietary license.

Support can be obtained from the official manual. Free support additionally is available in different IRC channels and forums. Oracle offers paid support via its MySQL Enterprise products. They differ in the scope of services and in price. Additionally, a number of third party organisations exist to provide support and services, including MariaDB and Percona.

MySQL has received positive reviews, and reviewers noticed it "performs extremely well in the average case" and that the "developer interfaces are there, and the documentation (not to mention feedback in the real world via Web sites and the like) is very, very good". It has also been tested to be a "fast, stable and true multi-user, multi-threaded sql database server".

What Can SQL do?

- SQL can execute queries against a database.
- SQL can retrieve data from a database.
- SQL can insert records in a database.
- SQL can update records in a database.
- SQL can delete records from a database.
- SQL can create new databases.
- SQL can create new tables in a database.
- SQL can create stored procedures in a database.
- SQL can create views in a database.
- SQL can set permissions on tables, procedures, and views.

Although SQL is an ANSI (American National Standards Institute) standard, there are different

versions of the SQL language.

However, to be compliant with the ANSI standard, they all support at least the major commands (such as SELECT, UPDATE, DELETE, INSERT, WHERE) in a similar manner.[7]

3.2. PLATFORM USED FOR IMPLEMENTAYION

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDBdatabase, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight

Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (MariaDB), and scripting language (PHP) – is included in an extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well.

The term XAMPP is an apparent acronym. However, there is no official acronym expansion specified on the Apache Friends website. Their homepage header reads "XAMPP Apache + MariaDB + PHP + Perl", indicating that this abbreviation is a recursive acronym.[6]

The term can be unofficially broken down as follows:

Letter	**Meaning**
X	XAMPP or an ideographic letter X, meaning cross-platform
A	Apache or its expanded form, Apache HTTP Server
M	MariaDB (formerly: MySQL)
P	PHP

MySQL was replaced with MariaDB on 2015-10-19 and beginning with XAMPP versions 5.5.30 and 5.6.14, effectively altering the meaning of the acronym.

While both letters P are de facto interchangeable, convention used at the Apache Friends website indicates that the first letter P is short for PHP and the latter letter P is short for Perl.

phpMyAdmin is a free and open source tool written in PHP intended to handle the administration of MySQL or MariaDB with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions.

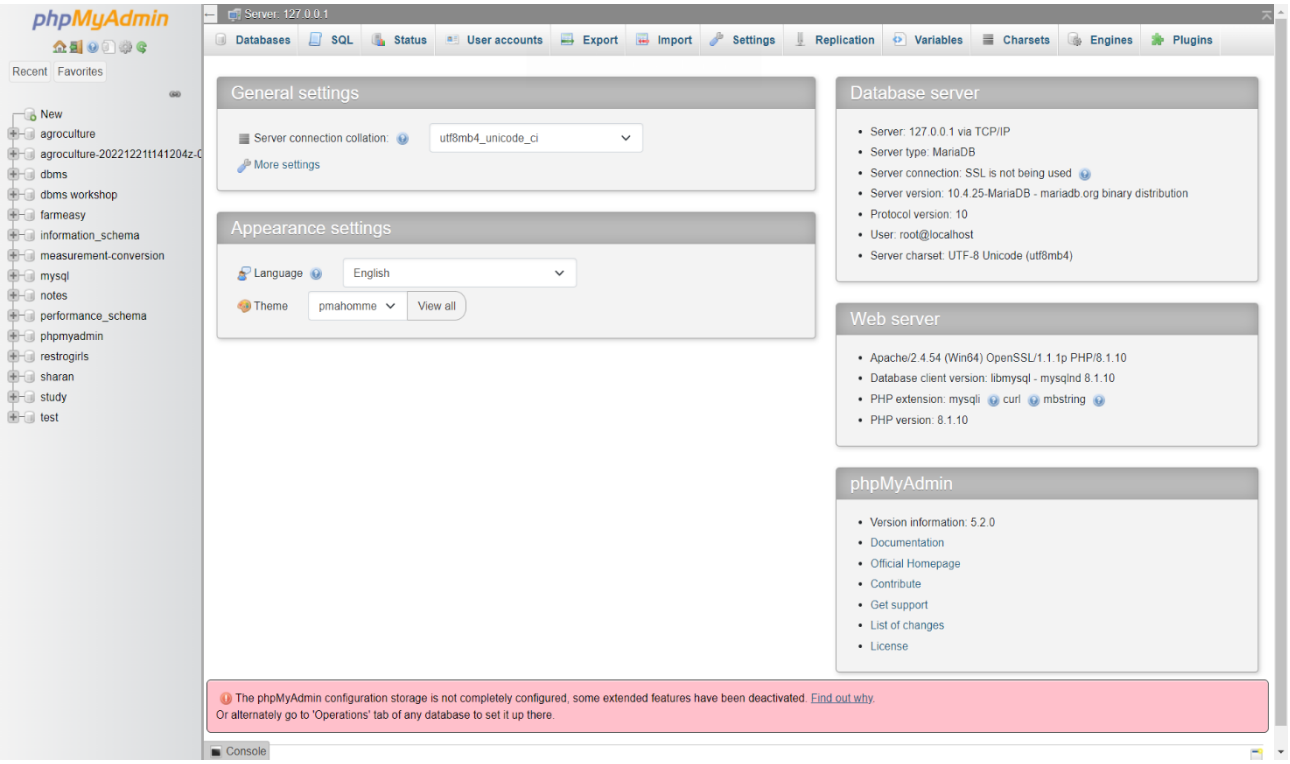

Fig.3.1 Php my admin home page

This is a screenshot of **phpMyAdmin** that can be used in xampp server.

Features provided by the program include:

- Web interface
- MySQL and MariaDB database management

- Import data from CSV and SQL
- Administering multiple servers
- Creating PDF graphics of the database layout
- Creating complex queries using Query-by-Example (QBE)
- Searching globally in a database or a subset of it
- Live charts to monitor MySQL server activity like connections, processes, CPU/Memory usage, etc.
- Working with different operating systems.

The software, which is currently available in 78 languages, is maintained by *The phpMyAdmin Project*.

3.3 SQL COMMANDS AND QUERIES

Frontend implementation :

```
<?php
session_start();
isset($_SESSION["email"]);
include("navbar.php");
 ?>
 <?php
include("config/config.php");
 ?>
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
.card {
  box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
  max-width: 100%;
  min-width: 100%;
```

```
  margin: auto;
  text-align: center;

 font-family: arial;
  display: inline;}
```

- Backend Code Implementation

- Creation of tables:

```
CREATE TABLE `admin` (
  `name` varchar(20) DEFAULT NULL,
  `password` varchar(20) DEFAULT NULL
)


INSERT INTO `admin` (`name`, `password`) VALUES
('admin', 'password'),
('abcd', '12345'),
('host', 'password'),

CREATE TABLE `sem3` (
  `sub_code` varchar(20) NOT NULL,
  `file` varchar(20) DEFAULT NULL
)

INSERT INTO `sem3` (`sub_code`, `file`) VALUES
('18CS32', '18CS32.zip'),
('18CS33', '18CS33.zip'),
('18CS34', '18CS34.zip'),
('18CS35', '18CS35.zip'),
('18CS36', '18CS36.zip'),
```

```
('18MAT31', '18MAT31.zip');


CREATE TABLE `sem4` (
  `sub_code` varchar(20) NOT NULL,
  `file` varchar(20) DEFAULT NULL
)

INSERT INTO `sem4` (`sub_code`, `file`) VALUES
('18CS34', '18CS34.zip'),
('18CS35', '18CS35.zip'),
('18CS36', '18CS36.zip'),
('18MAT41', '18MAT41.zip');

CREATE TABLE `sem5` (
  `sub_code` varchar(20) NOT NULL,
  `file` varchar(20) DEFAULT NULL
)

INSERT INTO `sem5` (`sub_code`, `file`) VALUES
('18CS32', '18CS32.zip'),
('18CS33', '18CS33.zip'),
('18CS34', '18CS34.zip'),
('18CS35', '18CS35.zip'),
('18CS36', '18CS36.zip'),
('18MAT31', '18MAT31.zip'
```

Chapter 4

4.RESULTS

FORM DESIGNS:

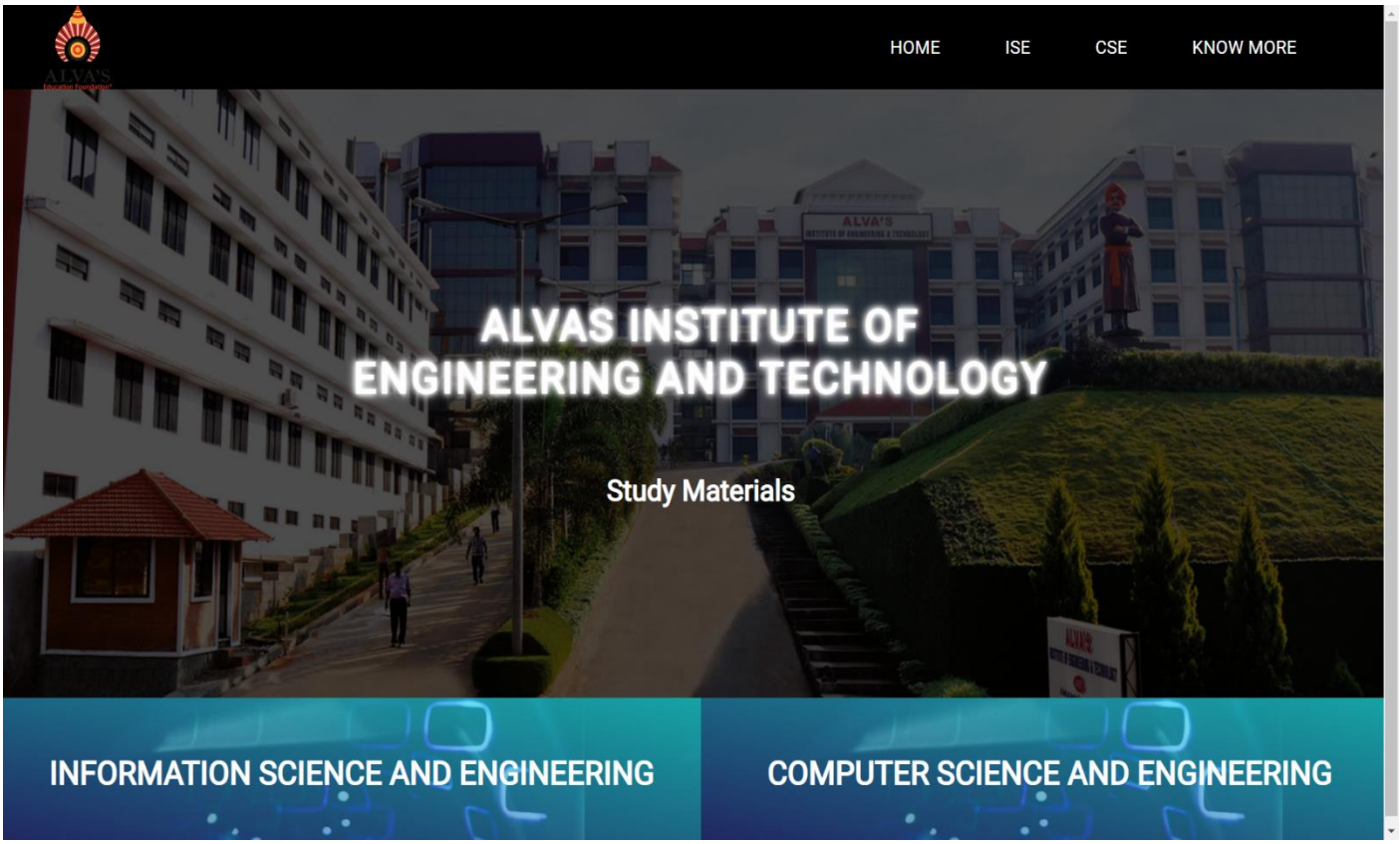

Fig 4.1: HOME PAGE OF STUDY MATERIAL MANAGEMENT SYSTEM

The above fig. 4.2 contains home page of the study material website. Here we can login to the or give access to the any the any type of branches .

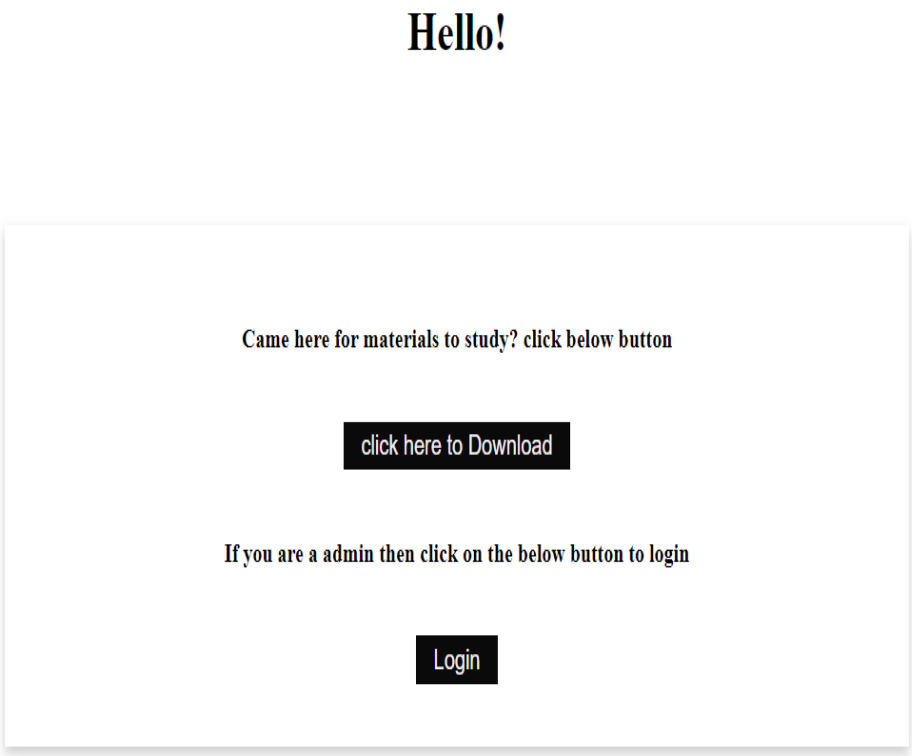

Fig 4.2: CHOOSE LOGIN PAGE

The above fig. 4.2 contains 2 types of login, first is for user login ,Second one is for the admin of the website and last one is for the Admin login. Here Admin can have access on every notes and admin he is the one who monitoring every activities in the portal.

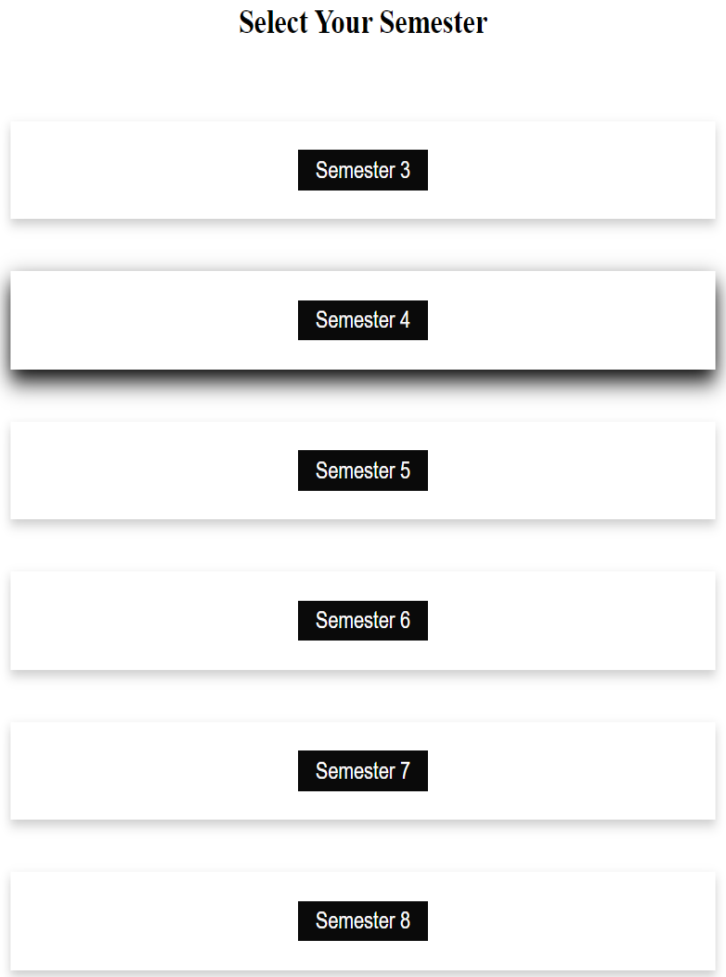

Fig 4.3: Selecting the SEM for Upload and Download the notes.

The above fig.4.3 shows downloading and uload of the files here by clicking the download button the respective file will be downloaded and here notes can be uploaded also this is the list of semester.

Fig 4.4: ADMIN LOGIN PAGE.

The above fig.4.4 shows how to login to the admi account here by using the respective admin datalike admin id and password ,admin can login to the account and upload the notes.

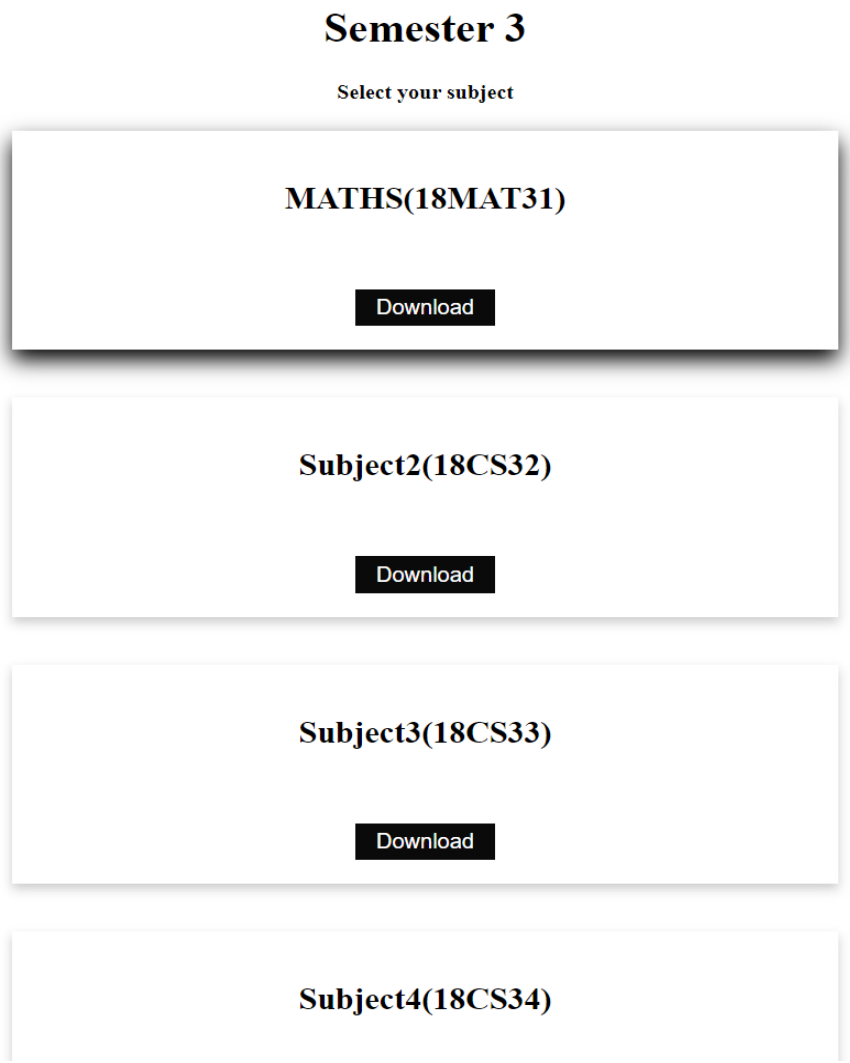

Fig 4.5: DOWNLOADING PAGE:

The above fig.4.5 shows here we can go inside the sem and download the respective file that has been uploaded by the admin.

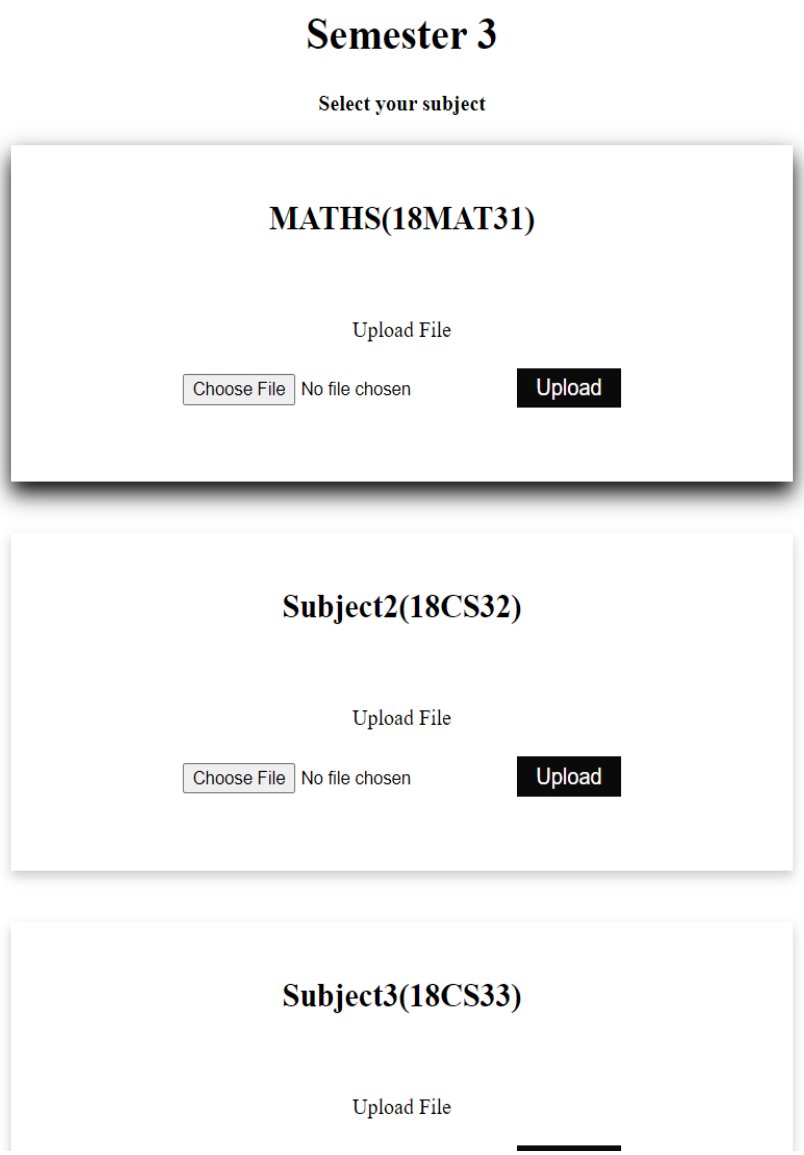

Fig 4.6: UPLOADING PAGE

The above fig.4.6 shows here we can go inside the sem and upload the file here only admin can upload the notes.

Chapter 5

5. CONCLUSION AND FUTURE ENHANCEMENT

5.1 CONCLUSION:

Study material Management is a user-friendly software which will reduce manual work of both students and teachers. If Study materialManagement is implemented in educational institutions, it will be a veryskillful upgrade from the current system which requires more manual labor and is outdated in todays times.Study material Management operates smoothly and it allows the administrator to have an overall view of the software from the administrator dashboard.

Therefore, Study material Management should be implemented as it will reduce the manual work and take this entire classroom experience online. By maintaining notes manually, there is no guarantee of error free notes. When the notes are uploaded online, both the teachers as well as the students have access to them 24x7.Therefore, everyone can download the required notes, prepare for exams and delete them when they are done. This will save tons of paper and hence, can be regarded as a green initiative.

The additional feature of **"Connect to Classroom"** that Study material Management provides also brings the students and teachers closer. Students can ask doubts to teachers or to their fellow students and improve their academic knowledge.

5.2 FUTURE ENHANCEMENT

The future development can be the assignment submission module which has not beenimplemented in the current STUDY MATERIAL MANAGEMENT project.
6.2 Future enhancement

Future plans are,

•Make the system fully automated.

• Implement security system for the project. Make the system more flexible for payment and other transaction. • Develop mobile apps for the system.

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