

“Project Report On”  
**COLLEGE MANAGEMENT SYSTEM USING DBMS**

Submitted by  
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Guide  
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**CERTIFICATE**

This is to certify that the project report entitled “**COLLEGE MANAGEMENT SYSTEM USING DBMS**”

Submitted By

**N LALITHA KAVYA**

record of work carried out by him in partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Computer Science), as prescribed by the Dr. V.S. Krishna Govt. Degree & P. G. College(A) in the Academic Year 2019 –2020.

Guide

Mis. Y. Jahnavi

Head of Department

## **ACKNOWLEDGEMENT**

We take this opportunity to thank those who helped us immensely throughout this project and whose efforts we will always appreciate and remember.

We thank to **Mis. Y. JAHNAVI** for their valuable suggestions, their indefatigable efforts to review our work, inspiring us and helping us in all possible ways at any time.

We would also like to extend our sincere appreciation to all staff members of Computer Department, without their help and co-operation the Project report would not have been a success.

Last but not the least we express our extreme gratitude to the Almighty, without whose blessing nothing is possible.

## **DECLARATION**

I hereby declare that this declare that this project report entitled “COLLEGE MANAGEMENT SYSTEM” is the result of original work done by me and to the best of my knowledge similar work has been submitted previously to any otheruniversity or published any time before. This project is submitted on the partialfulfilment the requirement for the award of degree of Bachelor of science.

**N. LALITHA KAVYA**

# **TABLE OF CONTENT**

## **1.INTRODUCTION**

- 1.1 NEED FOR STUDY
- 1.2 SCOPE OF THE STUDY

## **2. LITERATURE RIVIEW**

- 2.1 DISADVATAGES PROPOSED SYSTEM
- 2.2 METHODOLOGY
- 2.3 MAIN MODULO OF SYSTEM

## **3. DETAILED LIFE CYCLE OF PROJECT**

- 3.1 SOFTWARE REQUIREMENT SPECIFICATIONS
- 3.2 DATA FLOW DIAGRAM
- 3.3 STUDY OF THE SYSTEM
- 3.4 FLOW CHARTS

## **4. IMPLEMENTATION**

- 4.1 SYSTEM DATABASE CORE DESIGN
- 4.2 RELATIONAL DATA BASE MODEL
- 4.3 WORK / CODING
- 4.4 OUTPUT SCREENSHOTS

## **5. EXPERIMENTAL RESULT**

## **6. CONCLUSION AND FUTURE SCOPE**

## **7. REFERENCES**

# **COLLEGE MANAGEMENT SYSTEM**

## **ABSTRACT:**

This project is based on COLLEGE MANAGEMENT SYSTEM. It manages the college information, student information, placement information, various different types of events going on in our college. It also keeps track records of all the information regarding students those who are placed in the various organization. It has a notice board which contains information about various cultural or technical or any sports which is supposed to be held soon.

## **OBJECTIVE:**

The objects of system are –

- To reduce paperwork
- Reduce operational time
- Increased accuracy and reliability
- Increased operational efficiency
- Data security
- Reliable for student to create account and apply for job posts
- Placement head can maintain daily update
- New features can be added as per requirement

## **Java, JSP And MySQL Project on College Management**

### **System:**

I have developed this project College Management System in Java, JSP and MySQL. This is a mini java project. There is a single user in this project. Admin is a user. In this project admin will manage all the things in this project like admin can add student, fees and attendance and also admin can see the student reports, fees reports and attendance reports. Admin can edit, update and delete the student, fees and attendance report. Admin will be able to change the account password. Here students can get java projects with source code free download

I have attached the Screens and demo of the project below the description. Look into more details.

## **Modules and Description of College Management System**

### **Project:**

### **Student Module:**

The main aim of this module is to provide all the detailed functionality related to college. We have developed all types of CRUDS (Create, Read, Update and Delete) operations of the College. This College Module is an important module in this mini project College Management System which has been developed on Java, JSP and MySQL. Students can get complete easy java projects with source code and documentation for free download.

### **Features of Student Module:**

- Admin can add new Student records
- Admin can see the list of Student details
- Only admin can edit and update the record of the student
- Admin will be able to delete the records of the student
- All Student forms are validated on client side using JavaScript

## **Attendance Module:**

The main purpose for developing this module is to manage the attendance of the student's data wise. So, all attendance will be marked by admin, students will be able to see only his/her attendance. Admin can see the list of all attendance and filter it according to the students.

## **Features of Attendance Module:**

- Admin can mark the student attendance
- Admin can edit/delete the student attendance
- Admin can see the list of all student attendance
- Student can see his attendance

## **Fees Module:**

This module has been developed for managing all the information of the fees, here admin can upload the fees and students can view and download the fees

## **Features of Fees Module:**

- Admin can upload new fees
- Student can view and download the fees
- Admin can edit/update the existing fees
- Admin can delete the existing fees
- Admin can see the list of all fees

## **Login Module:**

This is the login form, from where Admin can login into the system.

## **Features of Login Module:**

- Admin can add new Login records
- Admin can see the Login details
- Only admin can edit and update the record of the Login
- Admin can change the password

## **Functionality and modules of the project College Management System:**

- Login – This module is used for admin login.
- Logout Functionality
- Change Password Functionality
- Dashboard – Admin dashboard related to all Students, Students detail, Students listing.

## **Student Management Module**

- ✓ Adding New Student Details
- ✓ Edit the Existing Student Details
- ✓ View all the details of the student
- ✓ Listing of all Student

## **→ Fees Module**

- ✓ Adding New Fees Details Edit the Existing Fees Details
- ✓ View all the details of the Fees
- ✓ Listing of all Fees

## **→ Attendance Module**

- ✓ Adding New Details Attendance
- ✓ Edit the Existing Attendance Details
- ✓ View all the details of the Attendance
- ✓ Listing of all Attendance

## **→ Reports of the project College Management System**

- ✓ Report of all Students
- ✓ Report of all Fees
- ✓ Report of all Attendance

## **Static Pages and other sections:**

### **These static pages will be available in project College Management System**

- ✓ Home Page with good UI
- ✓ Home Page will contain an JavaScript animated slider for images banner
- ✓ About us page will be available which will describe about the project
- ✓ Contact us page will be available in the project

## **Technology Used in the project College Management System:**

- ✓ HTML: Page layout has been designed in HTML
- ✓ CSS: CSS has been used for all the designing part
- ✓ JavaScript: All the validation task and animations has been developed by JavaScript
- ✓ JSP: All the end front logic has been written in JSP
- ✓ Java: All the business logic has been written in Java
- ✓ MySQL: MySQL database has been used as database for the project
- ✓ Tomcat: Project will be run over the Tomcat server

## **Supported Operating System:**

### **We can configure this project on the following operating system.**

- ✓ Windows: This project can easily be configured on the Windows operating system. For running this project on a Windows system, you will have to install Tomcat 7, JDK 7, MySQL 5.
- ✓ Linux: We can run this project also on all versions of Linux operating system
- ✓ Mac: We can also easily configure this project on the Mac operating system.

# **CHAPTER-1**

## **Introduction**

## **1.Introduction**

With the popularization in all kinds of school and education management departments at all levels, the information construction of education management has entered a new stage of development. The campus network based on Internet technology has gradually broken the original closed and independent mode of education management and started to transform to an interconnected and open system [1]. However, the current research on teaching management information systems has begun to take shape, but the actual application is still in its infancy [2]. In addition to the insufficient investment in education funds and the weak basic environment of school informatization, the main reasons are as follows:

The lack of standards for teaching management information system results in great data redundancy and waste of resources, which makes it difficult to realize resource sharing and system interoperability; or just standardizing data cannot solve the problem of interoperability between different systems. Many original independent teaching management information systems have made outstanding contributions to the scientization of education management. However, due to the mutual closure and independent operation of teaching, finance, personnel, equipment, scientific research, and other single management systems developed in different periods and departments, it not only causes great data redundancy and resource waste but also makes it difficult to realize information sharing through the network [3].

The information quality of educational administrators is relatively backward; in particular, whether the leading cadres at all levels have the awareness of modern information management is the key factor in the development and application of campus network management information system. If school leaders and education administrators do not have the awareness of modern information management and lack of understanding of the role and characteristics of modern information management, they will not pay attention to and care about the development and use of teaching management information system, which will bring about insurmountable obstacles to the development and application of the system [4]. Recently, some schools even have established a relatively perfect teaching management information system, but, due to the defects of some managers in consciousness,

ability, and other aspects, as well as the role of conservative factors in the work process, the teaching management information system cannot be fully used and developed.

Information security management refers to the establishment of information security policies and objectives in the overall or specific scope. The organization is required to establish an information security management system by determining the scope of the information security management system, formulating the information security policy, clarifying the management responsibilities, and choosing control objectives and control rethought ds based on risk assessment. To get a truly comprehensive cloud computing service, security is a priority. At the same time, how to better establish the enterprise's own information security management has become the focus of the industry. However, there are some problems in the above methods, such as poor data recall and long query time.

Therefore, this paper proposes a Web-based university education and teaching management information system. It is a comprehensive teaching management software system which takes teaching management as the core and integrates educational administration management, student status management, teacher student management, school production management, book management, and management. Through the network teaching management information system, education administrators, teachers, and students can query, analyse, and process the information in the process of education anytime and anywhere, so as to accurately and timely reflect the current state of the school 's work, use the past data to predict the future, and assist the school 's functional departments and principles to manage the school from the overall situation. The network teaching management information system also has a clear meaning of the times, which can meet the requirements of the change of work style in the information age and realize the requirements of information, schematization, and modernization of school management to meet the needs of assisting school administrators to make correct decisions.

### **Our contribution is threefold:**

- (1) The traditional university education and teaching management information system has the problems of low information recall, poor information precision, and long query time. Therefore, this paper designs a university education and teaching management information system based on Web.
- (2) Through the analysis of the requirements of the higher education and teaching management information system, the design principle of the system is determined, and the structure design of the higher education and teaching management information system is realized.
- (3) Experimental results show that this method can effectively improve the low information recall and poor information precision and shorten the query time.

## **1.1 NEED FOR STUDY**

Today in colleges student details are entered manually. The student details in separate records are tedious task. Referring to all these records and updating is needed. There is a chance for more manual errors.

### **Problems in existing system:**

It was limited to a single system.

- It was less user-friendly.
- It has a lot of manual work (Manual system does not mean that we are working with pen and paper, it also includes working on spreadsheets and other simple software's)
- It requires more employees to work.
- It was a time-consuming process.
- The present system was very less secure
- It is unable to generate different kinds of reports.

## **1.2 SCOPE OF THE STUDY**

- Access/ Search information.
- Login in to the system through the first page.
- Change the password
- View/change details.
- An admin privilege who can read as well as remove any uploads

**CHAPTER-2**  
**LITERATURE REVIEW**

## **2.LITERATURE REVIEW**

Until recently the place of the College Management System (CMS). Now-a-days, education is playing very significant role in the society. Day-by-day, the percentage of illiterates are decreasing and the percentage of literates is increasing. Education will change the society in all the aspects and everyone wants to study higher professional degrees.

Admissions are increasing day by day so there by. Ratio of establishment new colleges and schools are also increasing. But the actual challenge is starting from now. Most of the schools and colleges are maintain student information in records. When the number of records increased, it is difficult to maintain the information of each student in the old manual system. Maintaining the records manually leads to error prone and required more man power and it consumes more time for processing the record

## **EXISTING SYSTEM**

In the existing system of the project, we had just resulted that is usage through manually, here student can check through the computers from a personal computer located at a particular point of place.

### **2.1 DISADVANTAGES OF EXISTING SYSTEM**

- 1 More time
- 2 More money
- 2 More manpower
- 3 More work
- 4 Less work results
- 5 No accuracy

## **2.2 METHODOLOGY**

1. Apache tomcat is used as a web server to host the application.
2. All the environment variables are set.
3. The application is pasted in the webapps folder.
4. Web server is started now.
5. Application is run using the web browser by typing http://localhost/cis
6. Web.xml file is used to control the flow and user actions.

## **PROPOSED SYSTEM**

We resolve all the disadvantages of existing system in our proposed system, CMS. Old students can share their experience, ideas, motivations to their juniors in the college. They can provide information regarding higher studies. RESULT Automation which yields aggregate percentage up to that instant. Time will be saved, no chance of getting error.

## **2.3 Main Modules Of system :**

1. W Administrator module.
2. Staff Mainer (teacher, etc.) Module.
3. Student Module.
4. W Login Module.
5. Registration Module
6. Notice/Upload Module.

## **Present state :**

- No System present at all.
- Time consumed in accessing the records of the students.
- W Manual maintaining student records.
- M Time consumed for registering students and Staff members.
- Manually providing hard copy for any notice or important Information.

## **After implementation of project :**

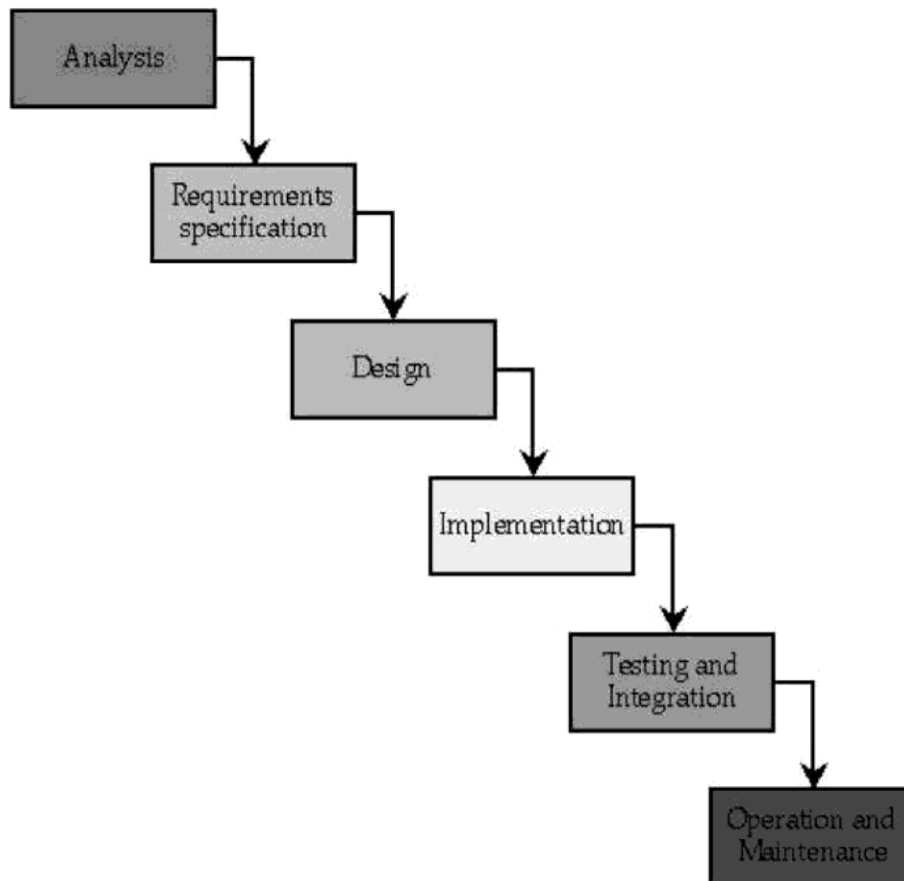
- Collage management system will be created.
- Easy to use GUI.
- Registration of Students and Staff members can be done easily and remotely.
- W Records can be maintained in a more efficient and organized manner.
- Easy to maintain database and secured storage.
- B widen of Administration decreases by a lot.

# **CHAPTER 3**

## **DETAILED LIFE CYCLE OF PROJECT**

## DETAILED LIFE CYCLE OF PROJECT

We have used Waterfall Model as Software Engineering life Cycle Process. It is the simplest; oldest and most widely used process model for software development. This model acquires its name from the fact that classic software life cycle is represented as a sequence of descending steps.



### 3.1 SOFTWARE REQUIREMENT SPECIFICATION (SRS)

#### hardware Required :

- Processor Dual core or higher || 1ghr clock speed or higher
- RAM 2gb or higher Storage 80gb or higher
- Display Adapter 256mb or high

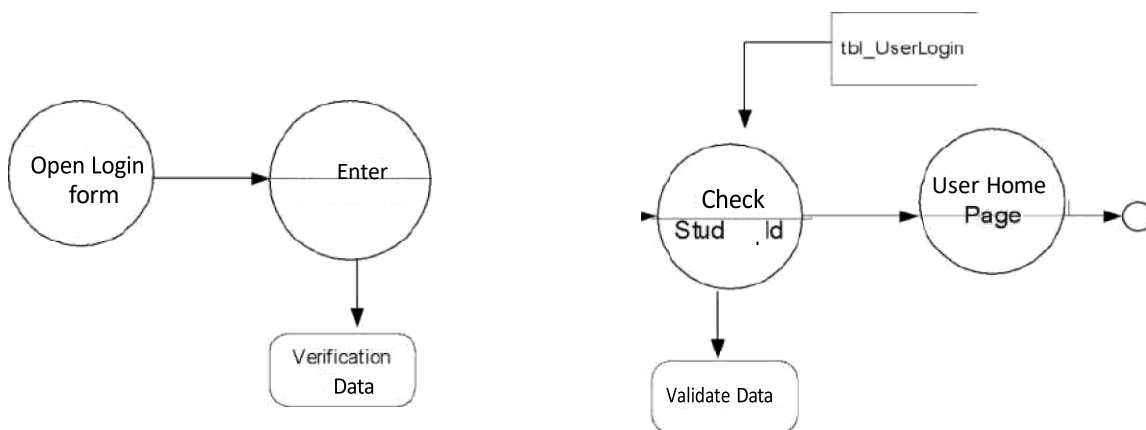
## Software Required:

- OS Windows, Unix, Linux
- Web Browser Chrome, Firefox, any Language PHP, HTML, CSS, JAVASCRIPT
- Database MySQL, SQL Server

## Tools Used:

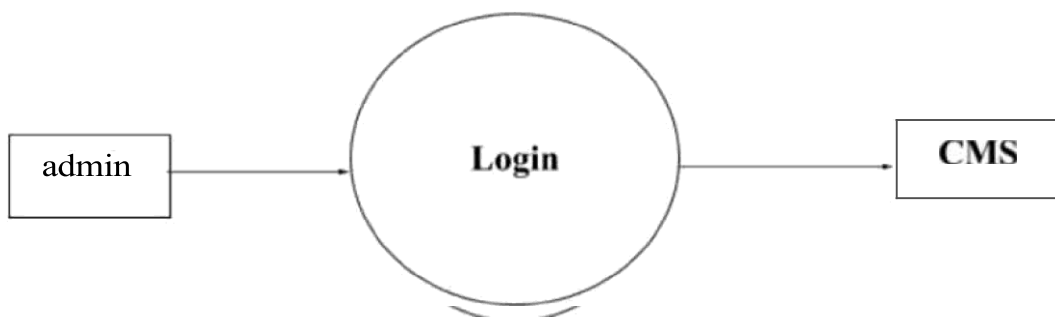
- XAMPP server
- W PHP v5 or higher
- Notepad (Brackets recommended)

## 3.2 DATA FLOW DIAGRAM

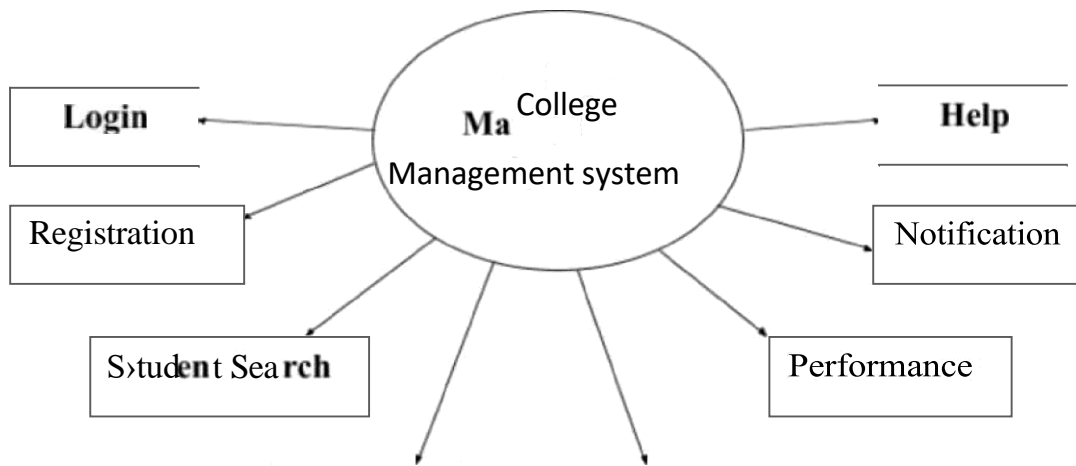


## Context level Diagrams:

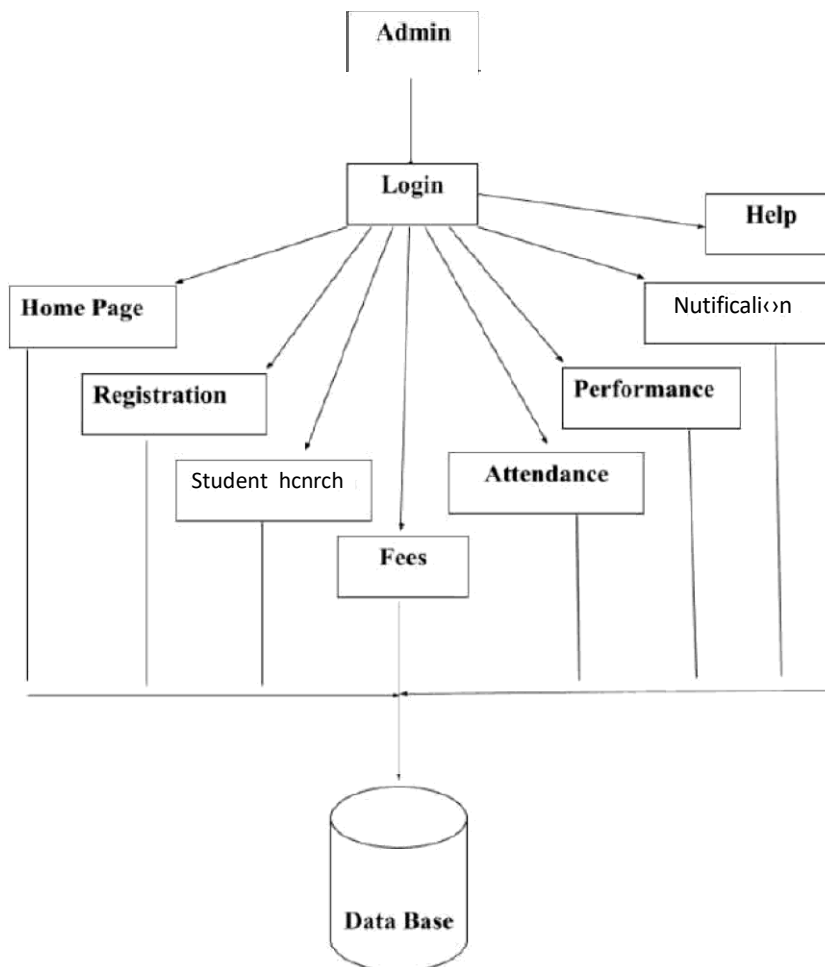
### Level 0:



## Level 1 :



## Level 2:



### **3.3 Study of the System:**

#### **3.3.1 Graphical user interface**

In the flexibility of the uses the interface has been developed a graphics concept in mind, associated through a browser interface. The GUI'S at the top level have been categorized as

Administrative user interface

1. The operational or generic user interface
2. The administrative user interface concentrates on the consistent
3. That is practically, part or the organizational activities and which needs proper
4. Authentication for the data collection. The interfaces help the administrations with all the transactional states like Data insertion, Data deletion and Date update along with the extensive data search capabilities.
5. The operational or generic user interface helps the users upon the system in transactions through the existing data and required services.

#### **3.3.2 Number of Modules**

The system after careful analysis has been identified to be presented with the following modules:

#### **The modules involved are:**

1. College information: Through this service one can access the complete information about the college campus such as courses available, admission procedure, placements, college events, achievements etc.
2. Student tracking: Any company or any organization that want to check the summary abo at the student of the college, so that they will be able to choose the particular students for their campus placement And for that purpose they will be given a particular link through which they can access the information required.
3. Student attendance status: It gives the attendance status of students.
4. Faculty will update the attendance periodically and can be seen by

students and parents.

5. Student's performance in exams: This facility provides the performance of the student in each exam which is conducted by university or college such as a's midterm performance, Marks obtained by students in exams.
6. Exam Notification: This facility notifies students and parents about examination schedule.
7. Events: it will give information about different events that will be conducted
8. by college time to time. Information about these events will be updated by administrator.
9. Information about staff: It will help in maintaining complete information about college faculty members such as their department, cadre, date of joining, salary, etc. Administrator will register new faculties and remove their account when they leave the college.

### **3.3.3 FORM DESIGNING**

- **Login Form:-**

This is login form of the Software, it ask for the id and password of the user, access is given to the authorized persons only. Types of logins are there Admin only.

- **MDI form:**

This acts as the home screen for this software. Through this MDI form

**we can access its child forms. 'this form gives the user further 5 options:-**

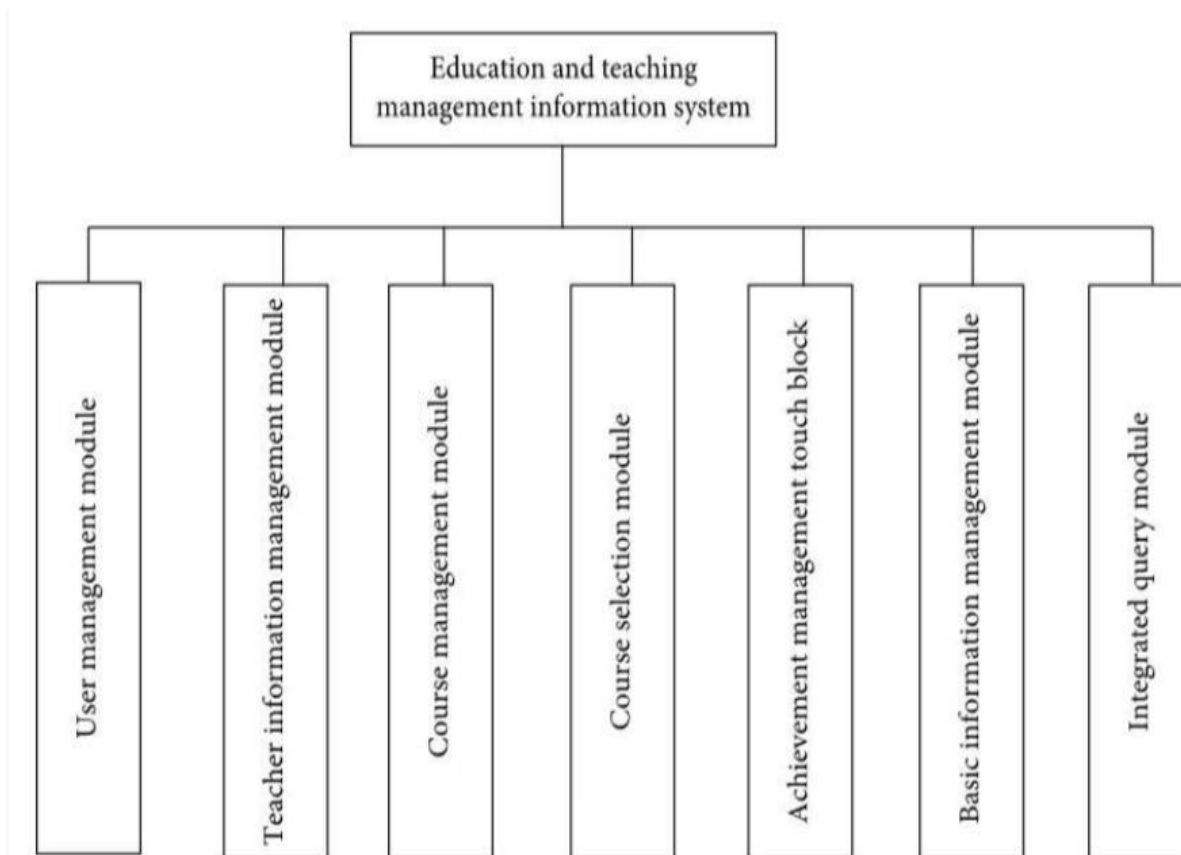
- Login Page it contains LOGIN, LOG OUT, and EXIT option to exit from Software.
- Registration: This module is designed for registration

- **Form list and details**

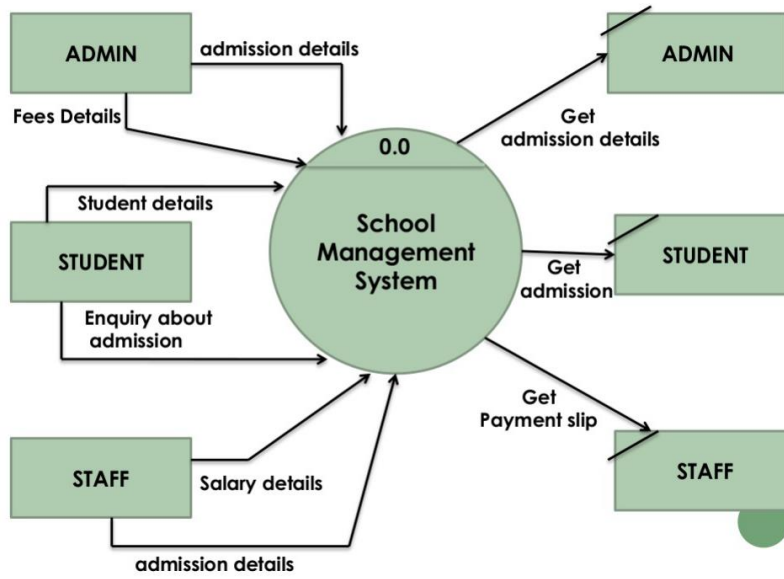
1. **Registration Entry Form**: registration entry form can be used to enter the new Entry of student.
2. **Student Search Form**: student search form can be used by admin, for Searching particular student related entering branches and year.
3. **Notification Form**: notification form can be used to add notification related to the exams and schedule of the college. Full authority is given to the admin.
4. **Fees Form**: this can be generated the fees report of the students.

### **3.4 Flow chart**

**Figure 1:**

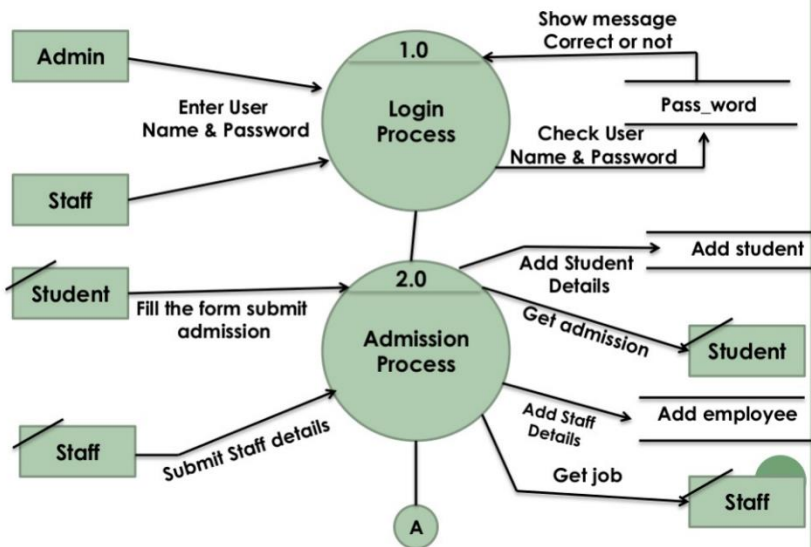


Context Level Diagram

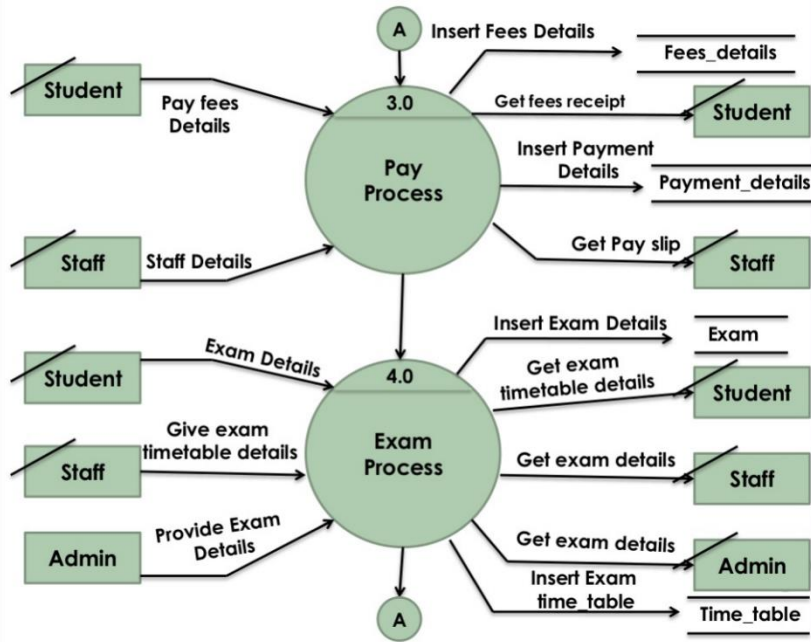


Clip slide

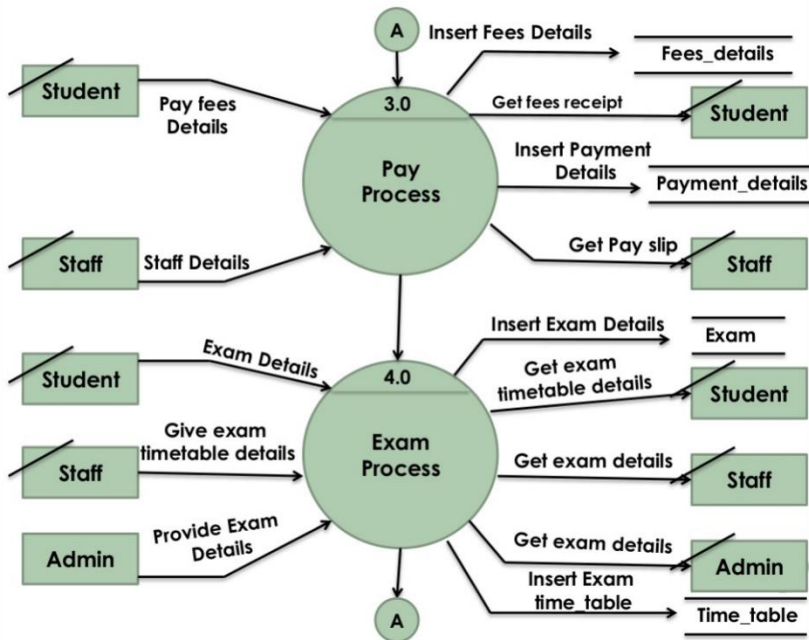
First Level Data Flow Diagram



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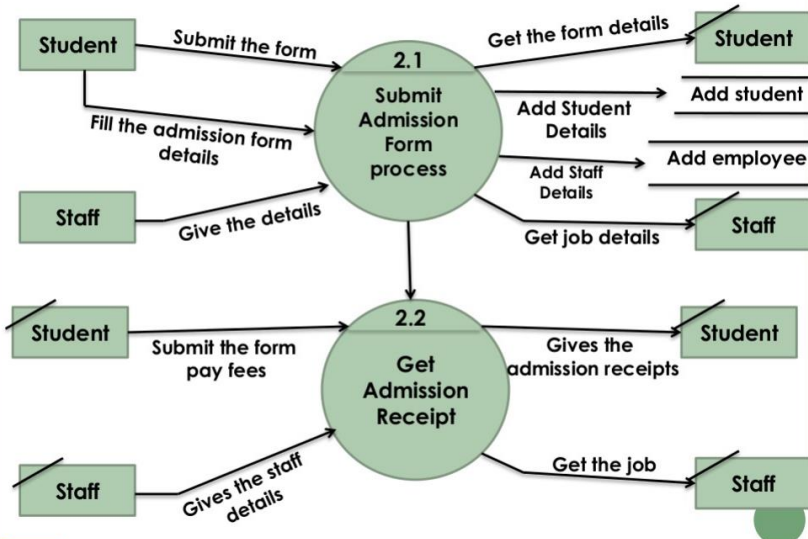


Clip slide



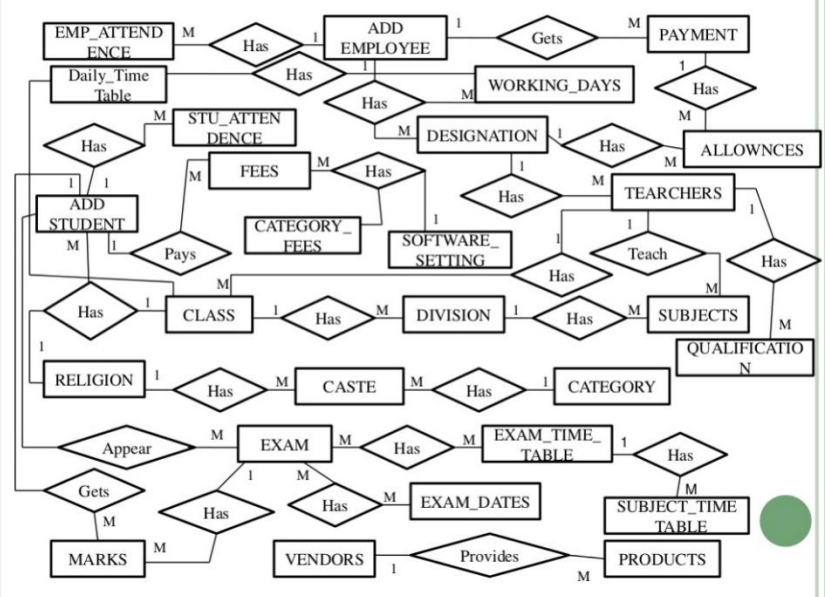
Clip slide

### Second Level Data Flow Diagram



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### Entity Relationship Diagram



Clip slide

# **CHAPTER-4**

## **IMPLEMENTATION**

## **IMPLEMENTATION**

This project designs a Web-based university educator and teaching management information system. By analyzing the requirements of university education and teaching management information system, the design principle of the system is determined, the structure design of university education and teaching management information system is realized, and the managerial process of the system is determined. On the basis of the above, by calculating the complexity of university education and teaching management information, the priority query information is determined to effectively improve the processing effect of the system. Finally, the relational database model is designed to realize the design of university education and teaching management information system.

### **The results are as follows:**

- (1) When the amount of teaching information data is 1 00 GB, the precision rate of this method is 94%, which shows that this method has better query accuracy for university education and teaching management information.
- (2) When the data of teaching information is 200 GB, the recall rate of the information of the teaching management in colleges and universities is 96%, which shows that the method has a good effect on the information retrieval of the teaching management in colleges and universities,
- (3) When the amount of teaching information n data is 300 GB, the query time of this method is only 2.3 s. It shows that the query efficiency of this method is better.

### **4.1 System Database Core Design**

The database of university education and teaching management information system is divided into two parts: the general control center database and the sub control center database. The database of the main control center is the core part of the remote network teaching system. It is particularly important to support the operation of the whole system. In order to efficiently integrate all the information and resource data of the whole system, the capacity, stability,

and operation efficiency of the database must be fully considered in the construction of the database of the general control center. In order to make the main control center database able to effectively meet the daily information reading, hac1«ip, and other needs, one way is to select the appropriate hardware platform to provide the necessary hardware support for the system, and another is to select an efficient and stable database management system to realize the complete management of data. Database construction is the core part of the network distance education system, which plays a vital role.

From the functional point of view, irritatingly covers system use case analysis, data management, financial management, identify authentication, security management, and so on, As the data storage point of the whole system, the central host system of the system construction manages and processes the data storage and transmission of the whole system. The system design adopts a typical three-flier system architecture. In its architecture design, it covers two functional servers: central database server and teaching management platform. Among them, teaching management platform includes data management server, security server, identity authentication server, and other related equipment servers.

## **4.2 Relational Database Model**

The logic structure of the system is divided into two types: conceptual mode and external mode. According to these two modes, the database design of the system can be carried out, and the object patterns can be transformed into fictitious database tables to get the table pattern (conceptual model).

## 4.3 work / coding

### 4.3.1 INDEX AND HOMEPAGE CODING

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>College Management System</title>
```

```
<link rel="stylesheet" type="text/css" href="css/i.css">
```

```
</head> <body>
```

```
<div class="menu">
```

```
<div id="home"><a href="home.php" target="frame1">Home</a></div> <div  
id="login"><a href="login.php" target="frame1">Login</a></div>
```

```
<div id="sign_up"><a href=registration.php
```

```
target="frame1">SignUp</a></div>
```

```
<div id="contact"><a href=contact.php target="frame1">Contact
```

```
Us</a></div>
```

```
<div id="about_us"><a href=# target="frame1">About Us</a></div>  
</div>
```

```
<div class="box"> <div class="frame">
```

```
<iframe id="frame1" name="frame1" width="100%" height="2048px"
```

```
frameborder="0px"></iframe>
```

```
</div>
```

```
</div>
```

```
<div class="footer">
```

```
<p align="center"><font color="red">&copy; 1999 Maharaja Agrasen Institute  
of Technology, New Delhi. All Rights Reserved.</font></p>
```

```
</div> </body>
```

```
</html>
```

### **4.3.2 STUDENT REGISTRATION PORTAL**

```
<?php
```

```
require_once("config.php");
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head> <meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<link rel="stylesheet" type="text/css" href="css/registration.css">
<title>Registration Form</title>
```

```
</head> <body>
```

```
<div class="header">
```

```
<?php
```

```
if(isset($_POST["submit"] ) )
```

```
$enroll=$_POST["enroll"]; $name= $_POST["name"]:
```

```
$email=$_POST["email"]:
```

```
$phone=$_POST["phone"];
```

```
$dob=$_POST["dob"]; $branch=$_POST["branch"];
```

```
$sql = "INSERT INTO users (enroll, name, email, phone, dob, branch)
```

```
VALUES(??????)":
```

```
$stmtinsert = $db->prepare($sql);
```

```
$result = $stmtinsert->execute([$enroll, $name, $email, $phone, $dob.
$branch]);
```

```
if($result){

echo 'Successfully saved.};

else{ echo "There were erros while saving the data."; }

} ?>

</div>

<div class="header">

<form action="registration.php" method="post"> <div class="container">

<div class="row">

<div class="data">

<h1 id="h1">User Registration.</h1><hr>

<h2 id="h2">Fill Details,</h2><hr>

<label for="enroll">Enrollment ID:</label>

<input type="text" name="enroll" id="enroll" placeholder="enter your
enrollment id" required><br><br>

<label for="name">Full Name:</label>
```

```
<input type="text" name="name" id="name" placeholder="enter
```

```
your name" required><br><br>
```

```
<label for="email">Email:</label>
```

```
<input type="email" name="email" id="email" placeholder="Email  
id/Username" required><br><br>
```

```
<label for="phone">Phone no.</label> <input type="text" name="phone"  
id="phone" placeholder="0123456789" required><br><br>
```

```
<label for="dob">Date Of Birth:</label>
```

```
<input type="date" name="dob" id="dob" required><br><br>
```

```
<label for="branch">Branch</label>
```

```
<input type="text" name="branch" id="branch" placeholder="enter your  
branch" required><br><br>
```

```
value="submit">
```

```
<input class="submit" type="submit" name="submit"
```

```
</div> </div>
```

```
</div>
```

```
<div class="left">
```

```
<p id="pleft"> Dr.V.S.Krishna govt degree college portal</p>
```

```
</div> </form>
```

```
</div>
```

```
<div class="clear"></div> <div class="footer">
```

```
<p align="center"><font color="red">&copy; Dr.V.S.Krishna govt degree  
college(A), madhhilapalem,vishkapatnam.</font></p>
```

```
</div>
```

```
</body>
```

```
</html>
```

### **4.3.3 Contact us page;**

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<link rel="stylesheet" type="text/css" href="css/contact.css">
```

```
<title>Contact Us</title>
```

```
</head>
```

```
<body align="center">
```

```
<div class="header">
```

```
<div class="left">
```

```
<h1>Dr.v.s. krishna govt degree college(A)</h1><hr> <table class="table">
```

```
<tr> <th>Postal Address:</th>
```

```
<td>Dr.v.s. krishna govt degree college(A)<br> krishna college road,  
Maddilapalem.
```

```
<br>Visakhapatnam-530022<br>INDIA.</td>
```

```
</tr><hr> <u>
```

```
<th>Phone:</th>
```

```
<td>+917894578949</td>
```

```
</tr>
```

<tr>

<th>Fax:</th>

<td>911127582095</td>

</tr>

<tr>

<th>Email Address:</th> <td>infinityconnectsmedia@gmail.com</td>

</tr>

</table><br><hr><br>

<h1>Director Office.</h1> <table class="table">

<tr>

<th>Address:</th>

<td><b>Prof.Dr.K.Ravibabu</b><br>

Dr.v.s. krishna govt degree college(A).</td>

</tr>

<tr>

<th>Phone No. </th> <td>+918448186931</td>

</tr>

<tr>

<th>Email address:</th>

<td>infinityconnectsmedia@gmail.com</td>

</tr>

</table><br><hr><br>

<h1>Registrar Office.</h1>

<table class="table">

<tr>

<th>Address:</th>

<td><b>Registrar</b><br>Administrative Block, g-12,  
Dr.v.s. krishna govt degree college(A.</td> </tr>

<tr>

<th>Phone No. :</th>

<td>+918448186942</td>

</tr> <tr>

<th>Email address:</th>

<td>registrar@mait.ac.in</td>

</tr>

</table><br><hr><br>

<h1>Accounts Department.</h1>

<table class="table">

<tr>

<th>Address:</th>

<td><b>Accounts Department.</b><br>Administrative Block, A-01,

Dr.v.s. krishna govt degree college(A.</td>

</tr> <tr>

<th>Phone No.:</th> <td>+919999985214</td>

</tr> <tr>

<th>Email address:</th>

<td>account@mait.ac.in</td>

</tr>

</table><br><hr><br>

<h1>Department of Training & Placement</h1>

<table class="table">

<tr>

<th>Brig. S.K.Kakar</th> <td>Head of the Department<br> Dr.v.s. krishna  
govt degree college(A</td>

</tr>

<tr>

<th>Phone No. :</th> <td>+918448186933</td>

</tr>

```
<tr>
```

```
<th>Fax:</th>
```

```
<td>#011#41;27582095</td>
```

```
</tr> <tr>
```

```
<th>Email address:</th>
```

```
<td>placement@mait.ac.in</td>
```

```
</tr>
```

### **4.3.4 Building a Sign-up system**

The system. Our first step is to create a HTML registration form. The form is pretty In this part, We will create a signup system that allows users to create a new account to simple to create. It only asks for a name, email, password, and confirm password. Email addresses will be unique for every user. Multiple accounts for the same email address are not allowed. It will show an error message to the users who try to create multiple accounts with the same email address.

### **Step 1: Creating Registration Form in HTML**

We will create a PHP file named register with the following code in it. This is a simple HTML form with some basic validation. If you are not familiar with HTML then you can get it from many online sites who give ready-made html5 login form templates.

## HTML

```
<!DOCTYPE html> <html lang="en">

<head>

<meta charset="UTF-8"> <title>Sign Up</title>

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css

">

</head>

<body>

<div class="container">

<div class="row">

<div class="col-md-12"> <h2>Register</h2>

<p>Please fill this form to create an account.</p>

<form action="" method="post">

<div class="form-group"> <label>Full Name</label>

<input type="text" name="name" class="form-control" required>

</div>

<div class="form-group">

<label>Email Address</label>

<input type="email" name="email" class="form-control" required />
```

```
</div>
```

```
<div class="form-group">
```

```
<label>Password</label>
```

```
<input type="password" name="password" class="form-control"
```

```
required>
```

```
</div>
```

```
<div class="form-group">
```

```
<label>Confirm Password</label>
```

```
<input type="password" name="confirm_password"
```

```
class="form-control"
```

```
required> </div>
```

```
<div class="form-group"> <input type="submit" name="submit" class="btn  
btn-primary"
```

```
value="Submit">
```

```
</div>
```

```
<p>Already have an account? <a href="login.php">Login
```

```
here</a>.</p>
```

```
</form>
```

```
</div>
```

</div>

</div>

</body>

</html>

All the input fields are required by adding the "required" attribute which is the default

HTML attribute. The use of type="email" will validate the email address provided by users and gives an error if the email address is not valid. For the registration form, we have used bootstrap for rapid development. If you want to save your time on HTML code you can always use some free html5 templates for your project.

## **Step 2: Creating the MySQL Database Table**

You will need to create a new database with any suitable name you want. After that please execute the below SQL query to create the user's table inside your newly

created MySQL database.

MySQL

```
CREATE TABLE `users` (
```

```
`id` int(11) unsigned NOT NULL AUTO_INCREMENT,
```

```
'name' varchar(75) NOT NULL,
```

```
'password' varchar(255) NOT NULL, 'email' varchar(100) NOT NULL,
```

```
PRIMARY KEY ("id"). UNIQUE KEY 'email' ('email')
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci  
AUTO INCREMENT=1;
```

### **Step 3: Creating Database Configuration File**

Now, we have created the user's table. Let's create a new PHP file named config.php to connect with the MySQL database, Paste the following code in the config.php file and change the database name to whatever you choose while creating the database.

PHP

Q H

```
<?php
```

```
define('DBSERVER', 'localhost'); // Database server  
define('DBUSERNAME', 'root'); // Database username  
  
define('DBPASSWORD', ""); // Database password define('DBNAME', 'demo');  
// Database name  
  
/* connect to MySQL database */ $db = mysqli_connect(DBSERVER,  
DBUSERNAME, DBPASSWORD, DBNAME).  
  
// Check db connection if($db === false){  
  
die("Error: connection error.". mysqli_connect_error());  
  
?>
```

### **Step 4: Creating a Session File**

Let's create a file named session. In this file, we will start the session and check if a user is already logged in, if yes then we will redirect the user to welcome file.

PHP

```
<?php

// Start the session

session_start();

// if the user is already logged in then redirect user to welcome page if
(isset($_SESSION["userid"]) && $_SESSION["userid"] === true) {

header("location: welcome.php");

exit;

}
```

## **Step 5: Create Registration Form in PHP**

Finally, it's time to create a PHP code that allows users to register their accounts into the system. This PHP code will alert users with an error if any user is already registered with the same email address.

Replace the following code in the register.php file.

PHP

```
<?php

require_once "config.php":

require_once "session.php"; if ($_SERVER["REQUEST_METHOD"] ==
"POST" && isset($_POST['submit'])) {

$fullname = trim($_POST['name']);

$email = trim($_POST['email']);
```

```
$password = trim($_POST['password']); $confirm_password = trim($_POST["confirm_password"]);
```

```
$password_hash=password_hash($password, PASSWORD_BCRYPT);  
if($query = $db->prepare("SELECT FROM users WHERE email = ?")) {
```

```
$error = "";
```

```
// Bind parameters (s = string, i = int, b = blob, etc), in our case the username a  
string so we use "s"
```

```
$query->bind_param('s', $email); $query->execute();
```

```
// Store the result so we can check if the account exists in the database. $query->  
>store_result():
```

```
if ($query->num_rows > 0) { $error = '<p class="error">The email address is  
already registered!</p>';
```

```
} else {
```

```
// Validate password
```

```
if (strlen($password) <6) { $error = '<p class="error">Password must have  
atleast 6 characters.</p>';
```

```
}
```

```
// Validate confirm password
```

```
if (empty($confirm_password)) {
```

```
$error.= '<p class="error">Please enter confirm password.</p>';
```

```
} else {
```

```
if (empty($error) && ($password != $confirm_password)) {
```

```

$error = '<p class="error">Password did not match.</p>';

} if (empty($error)) {

$insertQuery = $db->prepare("INSERT INTO users (name, email,
password) VALUES (?, ?, ?);");

$insertQuery->bind_param("sss", $fullname, $email, $password_hash); $result
= $insertQuery->execute();

if ($result) { $error = '<p class="success">Your registration was
successful</p>';

} else {

$error = '<p class="error">Something went wrong!</p>';

}

$query->close();

$insertQuery->close(); // Close DB connection mysqli_close($db);

?>
<label>Email Address</label>

<input type="email" name="email" class="form-control" required />

</div>

<div class="form-group">

<label>Password</label>

<input type="password" name="password" class="form-control"

```

```
required>
```

```
</div>
```

```
<div class="form-group">
```

```
<label>Confirm Password</label>
```

```
<input type="password" name="confirm_password" class="form-control"
required>
```

```
</div>
```

```
<div class="form-group">
```

```
<input type="submit" name="submit" class="btn btn-primary"
value="Submit">
```

```
</div>
```

```
<p>Already have an account? <a href="login.php">Login here</a>.</p>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

Once user click on submit button it will check if  
\$\_SERVER["REQUEST\_METHOD"] ==

"POST" and \$\_POST['submit'] a variable has been set. For security concerns, we always suggest not to store the password as plain text in the database. We have used password hash () function which creates a new password hash using a strong one-way hashing algorithm.

The above PHP script will validate that no user is registered with the same email address and also validate the password. After validation is confirmed, we store the user-provided information in the users' table and alert the user that registration was successful.

### **4.3.5 Building a Login System**

In this part, we will create a login form to allow users to access the restricted area of the system. In our case, the restricted area is a welcome page which we will cover in the next part.

#### **Step 1: Creating a Login Form in HTML**

Below is the Login Form in HTML. Paste it in a file named login.php

HTML

```
<!DOCTYPE html> <html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8"> <title>Login</title>
```

```
<link rel="stylesheet"
```

```
</head>
```

```
<body>
```

```
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css  
>
```

```
<div class="container"> <div class="row">
```

```
<div class="col-md-12">
```

```
<h2>Login</h2>
```

```
<p>Please fill in your email and password. </p>
```

```
<form action="" method="post">
```

```
<div class="form-group">
```

```
<label>Email Address</label> <input type="email" name="email"
class="form-control" required />
```

```
</div>
```

```
<div class="form-group"> <label>Password</label>
```

```
<input type="password" name="password" class="form-control"
```

```
required>
```

```
</div>
```

```
<div class="form-group">
```

```
<input type="submit" name="submit" class="btn btn-primary"
```

```
value="Submit">
```

```
</div> <p>Don't have an account? <a href="register.php">Register
```

```
here</a>.</p>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

## **Step 2: Creating a Login System in PHP**

After creating the login form in HTML, we will write a code to validate login credentials, On form submit we will check that the email and password are filled. If they filled then we will execute a SELECT query to find the record in a database on the basis of email and password. If any record found, then we will store the "userID" in session and the user is redirected to the welcome.php file, otherwise, the user is alerted with an error message.

Let's replace the following code in the login.php file.

PHP

```
<?php
```

```
require once "config.php":
```

```
require_once "session.php": $error = "";
```

```
if      ($_SERVER["REQUEST_METHOD"]=="POST"      &&  
isset($_POST['submit'])) {
```

```
$email = trim($_POST['email']): $password= trim($_POST['password']):
```

```
// validate if email is empty
```

```
if (empty($email)) {

$error.= '<p class="error">Please enter email.</p>';

// validate if password is empty if (empty($password)) {

$error = '<p class="error">Please enter your password. </p>';
if (empty($error)) {

if($query = $db->prepare("SELECT FROM users WHERE email = ?")) {

$query->bind_param('s'. $email);

$query->execute(); $row = $query->fetch():

if ($row) {

if (password_verify($password, $row['password'])) {

$_SESSION["userid"] = $row["id"]; $_SESSION["user"] = $row:

// Redirect the user to welcome page

header("location: welcome.php");

exit; } else {

$error = '<p class="error">The password is not valid.</p>';

}

} else {

$error.= '<p class="error">No User exist with that email address.</p>';

}

}
```

```
} $query->close();

}

// Close connection mysqli_close($db);
<!DOCTYPE html> <html lang="en">

<head>

<meta charset="UTF-8">

<title>Login</title>

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"

">

</head> <body>

<div class="container">

<div class="row">

<div class="col-md-12">

<h2>Login</h2> <p>Please fill in your email and password. </p>

<?php echo Serror; ?>

<form action="" method="post">

<div class="form-group"> <label>Email Address</label>

</div>

<input type="email" name="email" class="form-control" required />
```

```
<div class="form-group"> <label>Password</label>
required>

<input type="password" name="password" class="form-control"

</div>

<div class="form-group">

<input type="submit" name="submit" class="btn btn-primary"
value="Submit"> </div>

<p>Don't have an account? <a href="register.php">Register
here</a></p>

</form>

</div> </div>

</div> </body>

</html>
```

### **4.3.6 Creating a Welcome Page**

Below is the code for the welcome php file. Users will be redirected to this page after a successful login process. We have added some code at the top of the page to check if the user is not logged in, then redirect the user to the login page.

Let's create a welcome. Php file and paste the following code in it.

PHP

```
<?php
```

```
// start the session

session_start();

// Check if the user is not logged in, then redirect the user to login page if
(isset($_SESSION["userid"]) || $_SESSION["userid"] !== true) {
header("location: login.php");

exit;

?>

<!DOCTYPE html>

<html lang="en"> <head>

<meta charset="UTF-8">

<title>Welcome <?php echo $_SESSION["name"]; ?></title> <link
rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css
">
</head>

<body>

<div class="container">

<div class="row">

<div class="col-md-12">

<h1>Hello, <strong><?php echo $_SESSION["name"]; ?></strong> Welcome
to
demo site.</h1>
```

```
</div>
```

```
<p> <a href="logout.php" class="btn btn-secondary btn-lg active"
role="button" aria-pressed="true">Log Out</a>
```

```
</p>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

### **4.3.7 The Logout Script**

Finally, Let's create a logout.php file with the following code in it.

PHP

```
<?php
```

```
// Start the session
```

```
session_start();
```

```
// Destroy the session
```

```
if (session destroy ()) {
//redirect to the login page
```

```
header ("Location: login.php");
```

```
exit;
```

Once the user clicks on the Log Out link, the above script, will be called to destroy the session and redirect the user to the login.php file.

### **4.3.8 Config file which links webpage(frontend) with database(backend):**

```
<?php

Sdb_user = "root": $db_pass=""

$db_name = "cms";

$db = new PDO('mysql:host=localhost;dbname='.$db_name.';charset=utf8',
$db_user.      $db_pass);      $db->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
```

### **4.3.9 Login Module:**

```
<!-- PHP Starts Here -->

<?php session_start();

require_once "../connection/connection.php": $message="Email Or Password
Does Not Match";

if(isset($_POST["btnlogin"])) {

$username=$_POST["email"]; $password=$_POST["password"];

$query="select * from login where user_id='$username' and
Password='Spasword' ";

$result=mysqli_query($con,$query);

if (mysqli_num_rows($result)>0) {
```

```
while ($row=mysqli_fetch_array($result)) { if ($row["Role"]=="Admin")

$_SESSION['LoginAdmin']=$row["user_id"];
header('Location: ../admin/admin-index.php');

else if ($row["Role"]=="Teacher" and $row["account"]=="Activate")
$_SESSION['Login Teacher']=$row["user_id"];

header("Location: ../teacher/teacher-index.php");

else if ($row["Role"]=="Student" and $row["account"]=="Activate")

$_SESSION['LoginStudent']=$row['user_id'];
header('Location: ../student/student-index.php');

else

header("Location: Login.php");

}

<!doctype html>

<html lang="en">

<head>

<title>Login ICBS</title>

</head>

<body class="login-background">

<?php include(../common/common-header.php) ?>

<div class="login-div mt-3 rounded">
```

```
<div class="logo-div text-center"> 
```

```
</div>
```

```
<div class="login-padding">
```

```
<h2 class="text-center text-white">LOGIN</h2> <form class="p-1"
action="login.php" method="POST">
```

```
<div class="form-group">
```

```
<label><h6>Enter Your ID/Email:</h6></label>
```

```
<input type="text" name="email" placeholder="Enter User ID" class="form-
control" required>
```

```
</div> <div class="form-group">
```

```
<label><h6>Enter Password:</h6></label> <input type="Password"
name="password" placeholder="Enter
```

```
Password" class="form-control border-bottom" required>
```

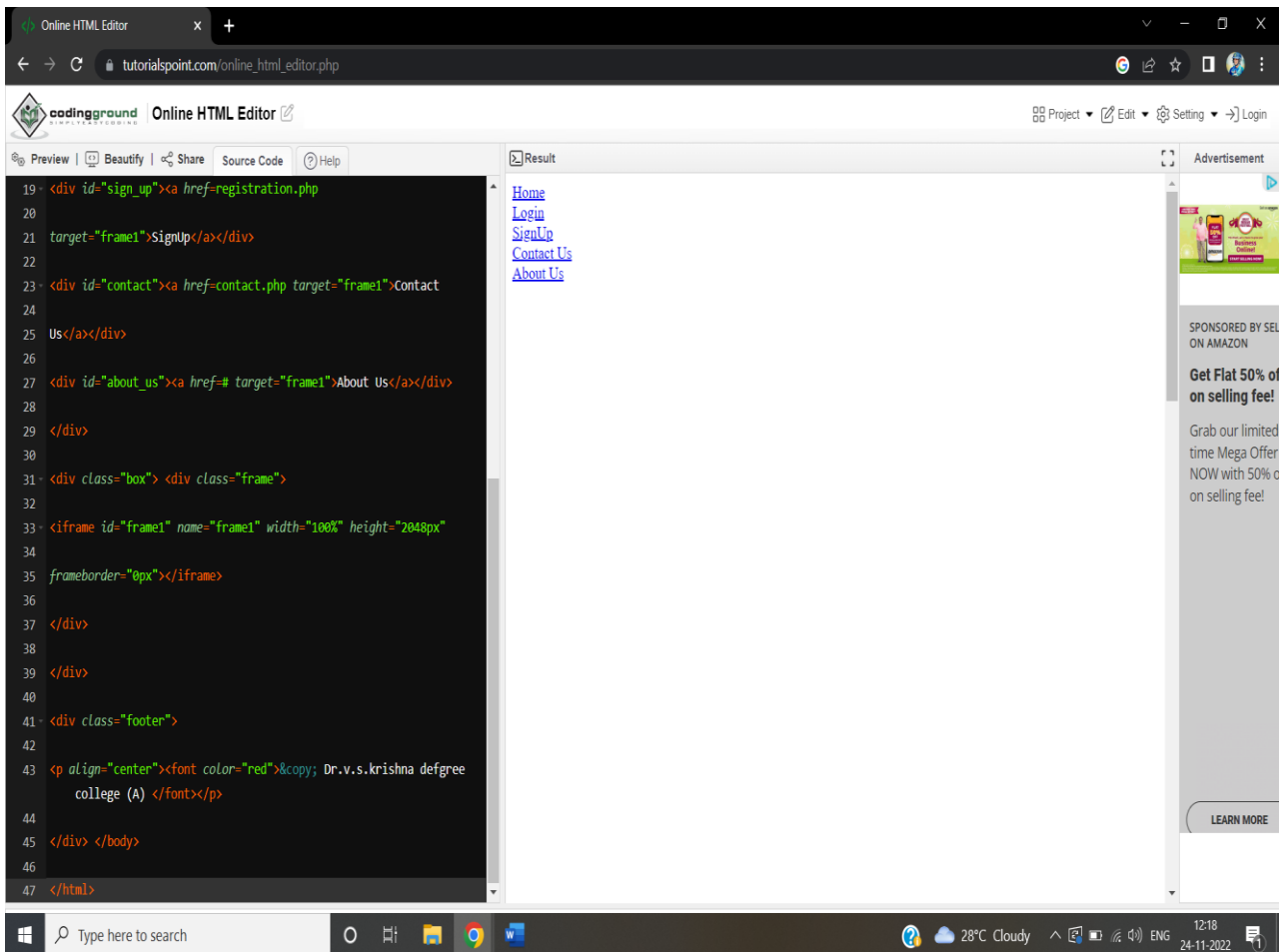
```
<--<?php echo $message; ?> -->
```

```
</div>
```

```
<div class="form-group text-center mb-3 mt-4"> <input type="submit"
name="btnlogin" value="LOGIN" class="btn btn-white pl-5 pr-5">
```

## 4.4 OUTPUT SCREENSHOTS;

### INDEX AND HOMEPAGE OUTPUT;



# STUDENT REGISTRATION PORTAL

The screenshot displays an online HTML editor interface. The left pane shows the source code for a registration form, and the right pane shows the rendered output. The form includes fields for Enrollment ID, Full Name, Email, Phone number, Date of Birth, and Branch, with a Submit button. The rendered page features a red copyright notice at the bottom: "© Dr.V.S. Krishna govt degree college(A), madhilapalem,vishkapatnam."

# Contact us page

The screenshot displays an online HTML editor interface. The left pane shows the source code for a contact page, and the right pane shows the rendered output. The rendered page features contact information for the Department of Training & Placement, including postal address, phone, fax, and email addresses for the Director Office and Registrar Office.

The screenshot shows an online HTML editor with the following code in the left pane:

```

135 <table class="table">
136
137 <tr>
138
139 <th>Brig. S.K.Kakar</th> <td>Head of the Department<br> Dr.v.s. krishna govt
degree college(A</td>
140
141 </tr>
142
143 <tr>
144
145 <th>Phone No. :</th> <td>+918448186933</td>
146
147 </tr>
148
149 <tr>
150
151 <th>Fax:</th>
152
153 <td>+910113441;27582095</td>
154
155 </tr> <tr>
156
157 <th>Email address:</th>
158
159 <td>placement@mait.ac.in</td>
160
161 </tr>
162
163

```

The right pane shows the rendered HTML output:

**Registrar Office.**

**Registrar**  
**Address:** Administrative Block, A-12, Dr.v.s. krishna govt degree college Δ  
**Phone No.:** +918448186942  
**Email address:** registrar@mait.ac.in

---

**Accounts Department.**

**Accounts Department.**  
**Address:** Administrative Block, A-01, Dr.v.s. krishna govt degree college Δ  
**Phone No.:** +919999985214  
**Email address:** account@mait.ac.in

---

**Department of Training & Placement**

**Brig. S.K.Kakar** **Head of the Department**  
Dr.v.s. krishna govt degree college Δ  
**Phone No.:** +918448186933  
**Fax:** (011)27582095  
**Email address:** placement@mait.ac.in

## Creating Registration Form in HTML

The screenshot shows an online HTML editor with the following code in the left pane:

```

1 <!DOCTYPE html> <html lang="en">
2
3 <head>
4
5 <meta charset="UTF-8"> <title>Sign Up</title>
6
7 <link rel="stylesheet"
8
9 href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css
/bootstrap.min.css">
10
11 </head>
12
13 <body>
14
15 <div class="container">
16
17 <div class="row">
18
19 <div class="col-md-12"> <h2>Register</h2>
20
21 <p>Please fill this form to create an account.</p>
22
23 <form action="" method="post">
24
25 <div class="form-group"> <label>Full Name</label>
26
27 <input type="text" name="name" class="form-control" required>
28
29 </div>

```

The right pane shows the rendered registration form:

**Register**

Please fill this form to create an account.

Full Name

Email Address

Password

Confirm Password

Already have an account? [Login here.](#)

## Creating the MySQL Database Table

Required databases and tables:

```
MariaDB [(none)]> use collegemanagementsystem;
Database changed
MariaDB [collegemanagementsystem]> show tables;
+-----+
| Tables_in_collegemanagementsystem |
+-----+
class_result
course_subjects
courses
login
mytable
sessions
student_attendance
student_courses
student_fee
student_info
teacher_attendance
teacher_courses
teacher_info
teacher_salary_allowances
teacher_salary_report
time_table
weekdays
+-----+
17 rows in set (0.001 sec)

MariaDB [collegemanagementsystem]> _
```



# Creating a Login Form in HTML

The screenshot displays an online HTML editor interface. On the left, the source code is shown in a dark-themed editor with line numbers 1 through 28. The code defines an HTML document with a title 'Login', a meta charset of 'UTF-8', and a link to Bootstrap CSS. The body contains a container with a row of two columns. The first column has an h2 'Login' and a paragraph 'Please fill in your email and password.' The second column contains a form with an email input field, a password input field, and a submit button. A 'Register a = [ ] here.' link is also present.

```
1 <!DOCTYPE html> <html lang="en">
2
3 <head>
4
5 <meta charset="UTF-8"> <title>Login</title>
6
7 <link rel="stylesheet"
8
9 </head>
10
11 <body>
12
13 href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
14
15 <div class="container"> <div class="row">
16
17
18 <div class="col-md-12">
19
20 <h2>Login</h2>
21
22 <p>Please fill in your email and password.</p>
23
24 <form action="" method="post">
25
26 <div class="form-group">
27
28 <label>Email Address</label> <input type="email" name="email" class="form-control" required />
```

The rendered preview on the right shows the following content:

href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

## Login

Please fill in your email and password.

Email Address

Password

Don't have an account? [Register a = \[ \] here.](#)

The browser's taskbar at the bottom shows the search bar, system tray with weather (28°C Cloudy), and date (24-11-2022).

## Student registration database's table



The image shows a web browser window displaying a login form. The form has a title "Login" and two input fields: "UserName:" and "Password:". Below the fields is a "Login" button. The browser's address bar shows the URL: localhost/CollegeManagementSystem/login/login.php.

Below the browser window is a terminal window showing a MySQL query result. The query is: `select * from login;` The result shows two rows of data:

ID	user_id	Password	Role	account
2	admin@gmail.com	admin123*	Admin	
5	staff1@gmail.com	teacher123*	Teacher	

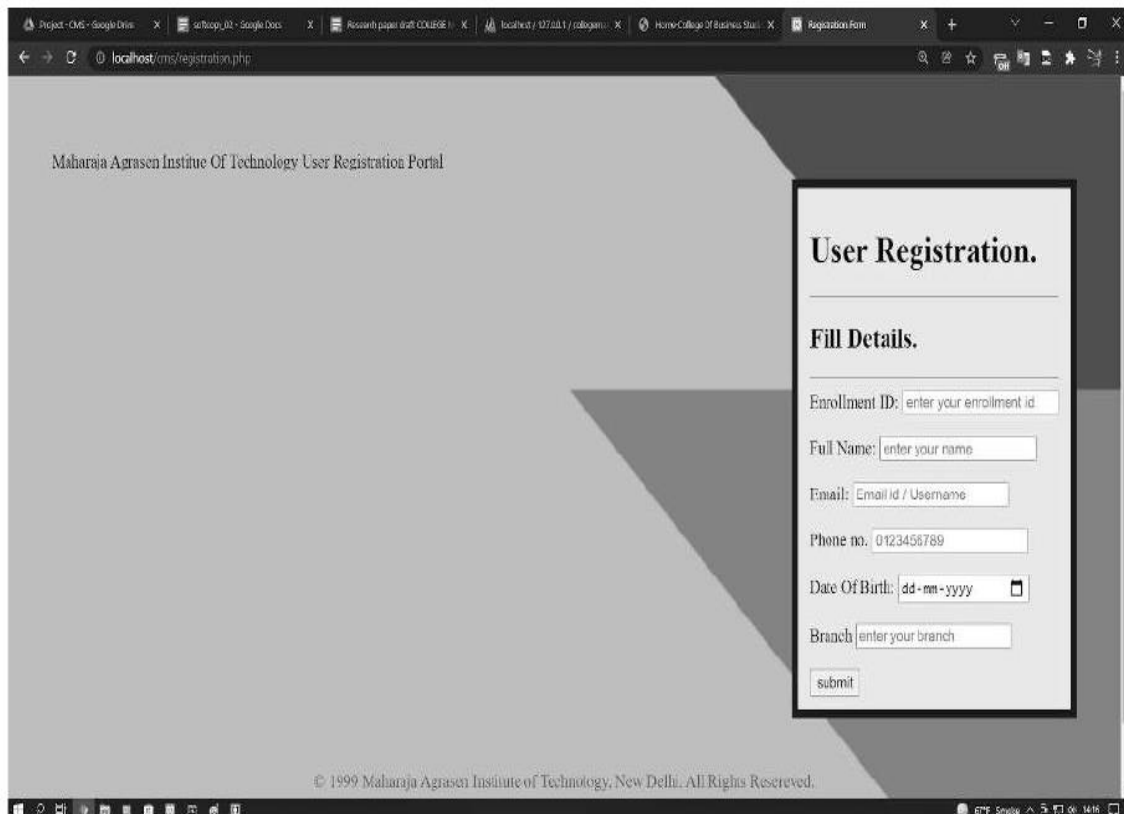
The terminal window also shows the following text: "17 rows in set (0.001 sec)", "MariaDB [collegemanagementsystem]> select \* from login;", "2 rows in set (0.000 sec)", and "MariaDB [collegemanagementsystem]>".

Student registration database's table:

## User registration database's table;

```
Administrator Command Prompt - mysql -> root -> h localhost
MariaDB [cms]> DESC users;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| enroll | bigint(12)    | NO   | PRI | NULL    |       |
| name   | varchar(150)  | NO   |     | NULL    |       |
| email  | varchar(250)  | NO   |     | NULL    |       |
| phone  | bigint(10)    | NO   | MUL | NULL    |       |
| dob    | date          | NO   | MUL | NULL    |       |
| branch | varchar(100)  | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.009 sec)

MariaDB [cms]> .
```



## Login page credential table;

Login page credentials table:

```
MariaDB [collegemanagementsystem]> DESC login;
```

Field	Type	Null	Key	Default	Extra
ID	int(11)	NO	PRI	NULL	auto_increment
user_id	varchar(30)	NO		NULL	
Password	varchar(30)	NO		NULL	
Role	varchar(10)	NO		NULL	
account	varchar(20)	NO		NULL	

```
5 rows in set (0.009 sec)

MariaDB [collegemanagementsystem]>
```

Student Entry Form

Here, you'll add new student's detail to record into database.

First name  Last name

Male  Female

Birthday: Year  Month  date

Place of birth

Address

Mobile no.

Email address

Note

Teacher/Staff members:

# **CHAPTER-5**

## **Experimental Results**

## **Experimental Results**

College Management System is a internet based Web Portal that aims at providing information to all levels of management system for the College, This system can be used as an information management system for the college.

For a given registrar / staff / student (Technical / Non-technical) the Administrator creates a login id & password, using these registrar/ staff / students (Technical /Non-technical) can access the system to either upload or download some informational the database. College Management System Software allows college authorities to streamline the education process and manage students with ease and provide a unified environment where teaching & learning can thrive.

# **CHAPTER 6**

## **CONCLUSION AND FUTURESCOPE**

## **CONCLUSION AND FUTURESCOPE**

This project assists in modifying the existing system to a site-based system. This is a paperless work it can be monitored and controlled remotely. It reduces the manpower required. It always provides accurate information; Malpractice can be reduced. All gathered and extra information can be saved and can be accessed at any time, The data which is stored in the project helps in taking intelligent and quick decisions by the management. So, it is better to have a Web-Based Information Management system. All the stakeholders, staff members can get the desired information without delay. This system is essential in colleges and universities.

I have taken a lot of effort in completing this project.

However, it could not have been possible without the support and guidance of individuals and organizations. We would like to express my sincere thanks to all of them, Query mode, and resource management, in order to conduct accurate queries in the case of complex data.

Today, the market place is flooded with several school management options for colleges and institute to choose from. A variety of innovative products and services are being offered spoiling customers for choice, College Management System in more a privilege enjoyed by managers and employees. In the last couple of years, the growth of IT industry has been phenomenal as more have started discovering, the benefits of using this platform. Therefore, we will make this system live and provide Software as Service in future.

# **CHAPTER 7**

## **REFERENCES**

## **REFERENCES**

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- Web server/Apache -<https://www.apachefriends.org/>-