EXAM HALL MANAGEMENT SYSTEM

A MINI - PROJECT REPORT

Submitted by

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BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

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BONAFIDE CERTIFICATE

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Finally, we express our heartfelt gratitude to our **Parents and Friends** who had encouraged us in successful completion of our project and people who have willingly helped us out with their abilities.

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ABSTRACT

The Examination Hall System is a PHP project that can automate the process of exam allotment and seating arrangement. The software facilitates the examination by assigning each student and staff to their respected classes and allocating the seating arrangement to avoid conflict.

Most of the time student and faculty faces problems to finding their assigned examination hall, so with this system, it will be easier to manage the location by arranging each hall in a software generated way for them. Mainly,this system helps students and faculty to know their rooms for the examination

KEYWORDS: PHP, Hall arrangement, Reports and Timetable.

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CHAPTER 1

INTRODUCTION

1.1 EXAM HALL MANAGEMENT SYSTEM

The purpose of developing exam hall management system is to computerized the traditional way of conducting exams and help staffs in allocating exam hall easily without any burden. Another purpose of developing this software is to generate the report automatically during exams at the end of the session or in between the session. This project also allocate particular invigilator for particular hall. It is also very useful for the college where the software may generate the hall separation. Hence the hall is allocated to the students automatically based on their departments and register numbers. And management system contain timetable to show students their respective exams.

PHP stands for PHP: Hypertext Preprocessor, with that PHP standing for Personal Home Page [Tools]. This type of acronym is known as a retronym.[2] Originally, in 1994, the language was designed as a small set of binaries used to collect some basic site traffic data. PHP is an open-source language, used primarily for dynamic web content and server-side applications. It is often pointed to as the main competitor with: PHP reached wide-spread popularity with version 4,] 5] released in 2000. In 2004 PHP 5 was debuted, and it is now considered one the top languages used for server-side scripting. Unlike many languages, such as C# or Perl, which have primarily a following of more generalist programmers, many PHP programmers know no other language. This occasionally causes it to be dismissed as a lesser language, but its growing popularity and the many robust and efficient sites built using it as a structure seem to dispel this myth.

Unique features:

- Performance
- Portability
- Ease of Use
- Open Source

1.2 EXISTING SYSTEM

Existing system is very slow and inefficient. Report generation is also not an easy task in the current situation. Also if the report is generated then calculations are done manually that leads to more errors. There is a lot of manual work involved in current system and mistake in one detail can lead to wrong generation of page. No proper collection of requirements leads a huge problem for this system. This system is to enhance manual work and also more energy is wasted to allocate the seating arrangement.

1.3 DRAWBACKS OF EXISTING SYSTEM

The drawbacks that are present in the existing system are listed below:

Current system is manual so all the records are maintained manually. So the seating arrangement of students cannot be determined if updating is not done.

- Time Consuming
- Less Efficient
- More manual Work Required
- Less Accurate
- Not User Friendly
- Difficult in hall ticket generation

1.4 PROPOSED SYSTEM

EXAMINATION HALL MANAGEMENT SYSTEM APPLICATION is developed for the college to simplify the allocation of halls and issuing hall tickets to students during exams. It facilitates to access the examination information of a particular student in a particular department. The information is sorted information alphabetically, which will be provided by the staff for a respective department. This system is also help in finding the examination eligibility criteria of a student of the particular department.

1.5 ADVANTAGES OF PROPOSED SYSTEM

Some of the advantages of the proposed system are as follows

- Develop software such that everybody working in exam hall allocation system can handle easily.
- Trainer can store & retrieve data easily. And hence, keeping these major target segments in focus, the system was developed.
- Report can also provided through print outs.
- Provide a simpler method to store and access information related to exam hall and students.
- Provide a simple interface which will be easily used without much training.
- Reduce paperwork and make all related information accessible easily..

CHAPTER 2

LITERATURE SURVEY

S.PriyaDharshini, M.SelvaSudha from the Department of computer science engineering has proposed the system termed as "Exam Cell Automation System"[1]. The projects main objective is to simplify the allocation of halls in the institute and also allows the students to access the examination information of their respective department. The information is stored in alphabetical order which is provided by the faculty and the exam coordinator of their respective department. The admin updates the information about student details, exam timing, hall details and available space in the hall. Now the automated system will generate the seating order to the students which are provided by department staff in the form of spreadsheet. The admin will enter the information about the student's marks into their spreadsheets directly by GUI or by the database entry.

Dayanand G Savakar, Ravi Hosur from **Rani** Chennamma University, Belagavi has developed a new platform for the examination management system using cloud computing technology and termed the application as "Automation of Examination System"[2]. This application is an automated system for all the institute that deals with student seat allocation and faculty supervision allocation for examination at university level to manage the academic examination process using the cloud computing technology. Here the computerized system allocates the number of students to a particular block and supervisor to their block and also allows the supervisor to exchange their duties, generate report cards the particular date, session, block and generate the report for the students that were absent for the particular examination.

BondreRutujaAvinash, Durgi Varsha Vijaykumar, Mohite Pradnesh Rajeev, Parkar Vishal V has developed a new platform for the examination management system from the university of Mumbai and termed the application as "Automated Examination Support System"[3]. The newly developed system is capable of generating hall ticket, result semester and year-wise and also provides secure remote access to the students and faculty within the organization. The project mainly focuses on enrolling the students and enrolling the faculty providing their own user id and password in order to provide a secure login into the system, hall ticket generation done to the students if and only if the student clears all the internal assessments completely, student can view and download the hall ticket online availability of hall tickets, the results are generated based on the semester

CHAPTER 3

SYSTEM SPECIFICATION

3.1 HARDWARE REQUIREMENTS

- CPU type : INTEL CORE I3
- Clock speed : 3.0 GHz
- RAM size : 4 GB
- Hard disk : 1 TB

3.2 SOFTWARE REQUIREMENTS

- Operating System : Windows 7 and 10
- IDE : Visual Studio Code
- Language : PHP

CHAPTER 4

ANALYSIS OF THE PROJECT

4.1 ARCHITECTURE

In this project, we are usingPHP language and XAMPP server which helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself.

Most of the time student and faculty faces problems to finding their assigned examination hall, so with this system, it will be easier to manage the location by arranging each hall in a software generated way for them. And student can also access the timetable for their respective examination.

we have three login way for this application. First one is Admin. Admin will manage the data for every examination to change the details. Second way is User. User could access the system to know about their allocated rooms. Third one is Faculty. Faculty also could access it to know about their respective room for examination. This management system provides room allocation for both students and faculty. We are mainly focusing on php for this project

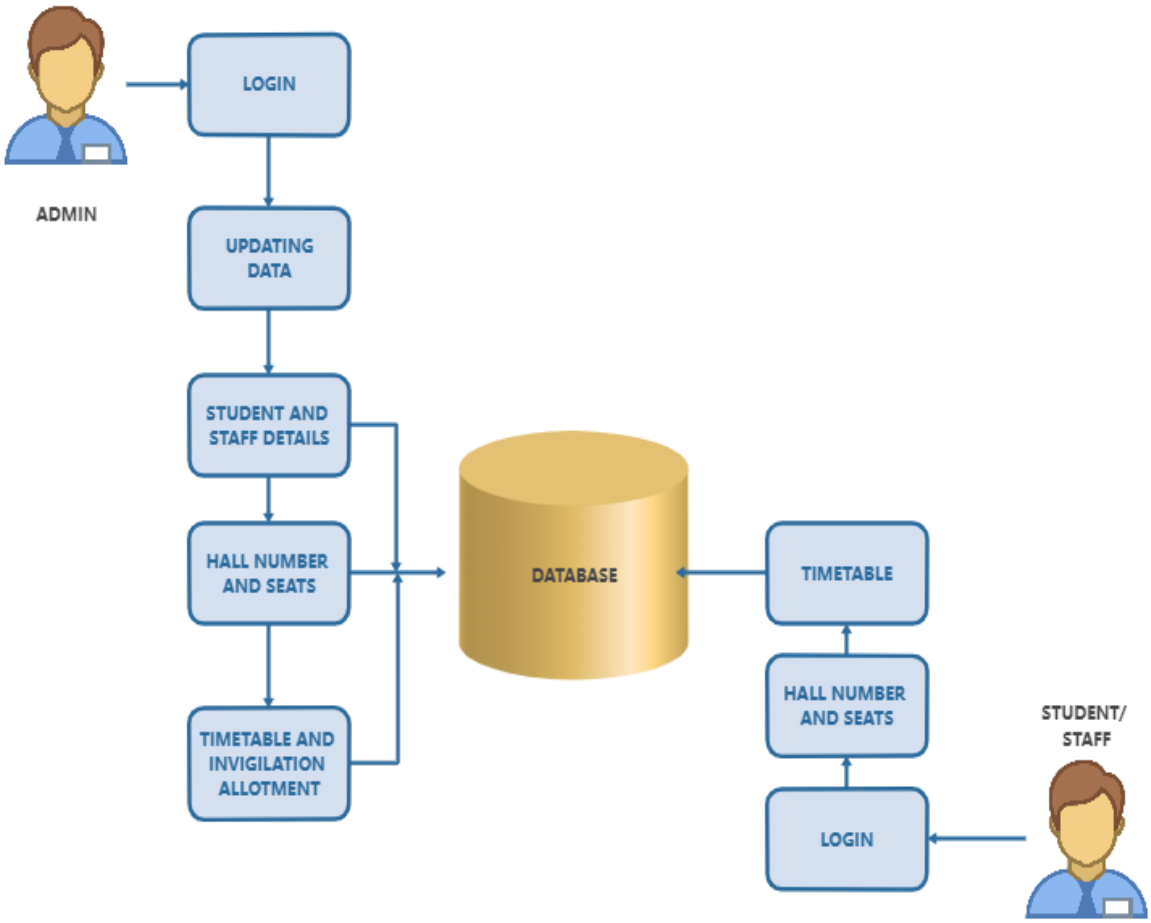


Fig 4.1 Overall Architecture of the System

CHAPTER 5
SYSTEM DESIGN

A collection of data designed to be used by different people is called a database. It is a collection interrelated data stored together with controlled redundancy to serve one or more applications in an optional fashion. The data is stored in such a fashion that it is independent of the programs of people using the data. A common and controlled approach is used in adding new data and modifying and retrieving existing data within the database.

The modules involved in the project are as follows:

ADMIN MODULE:

In this module, admin will manage the data of time table and seating arrangements . Admin can access the details of students and faculty.

STAFF MODULE:

In this module, staff can login using the details. They can view the time table and allotted hall for the examination.

STUDENT MODULE:

In this module, students can login using the details. they can view the time table and allotted hall for the examination.

REPORTS:

In this report module, the reports are generated such as Student details, Allotment details etc…

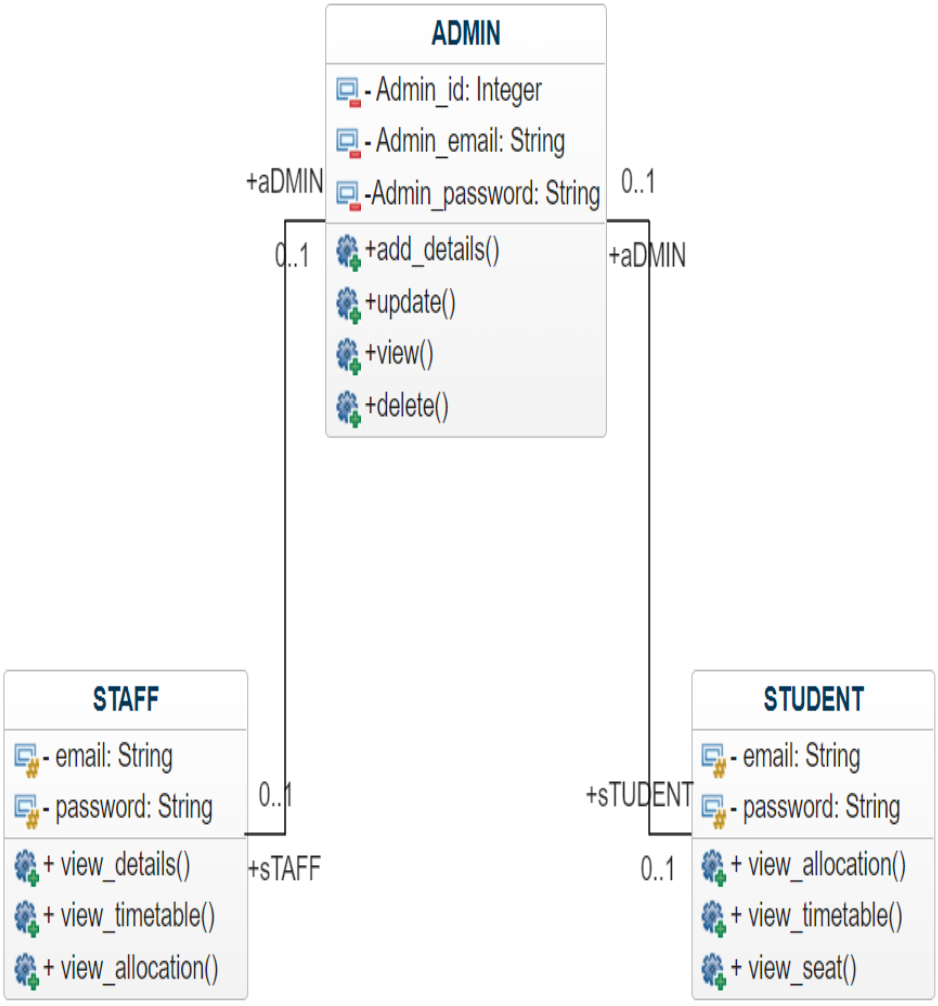


Fig 5.1 Class Diagram

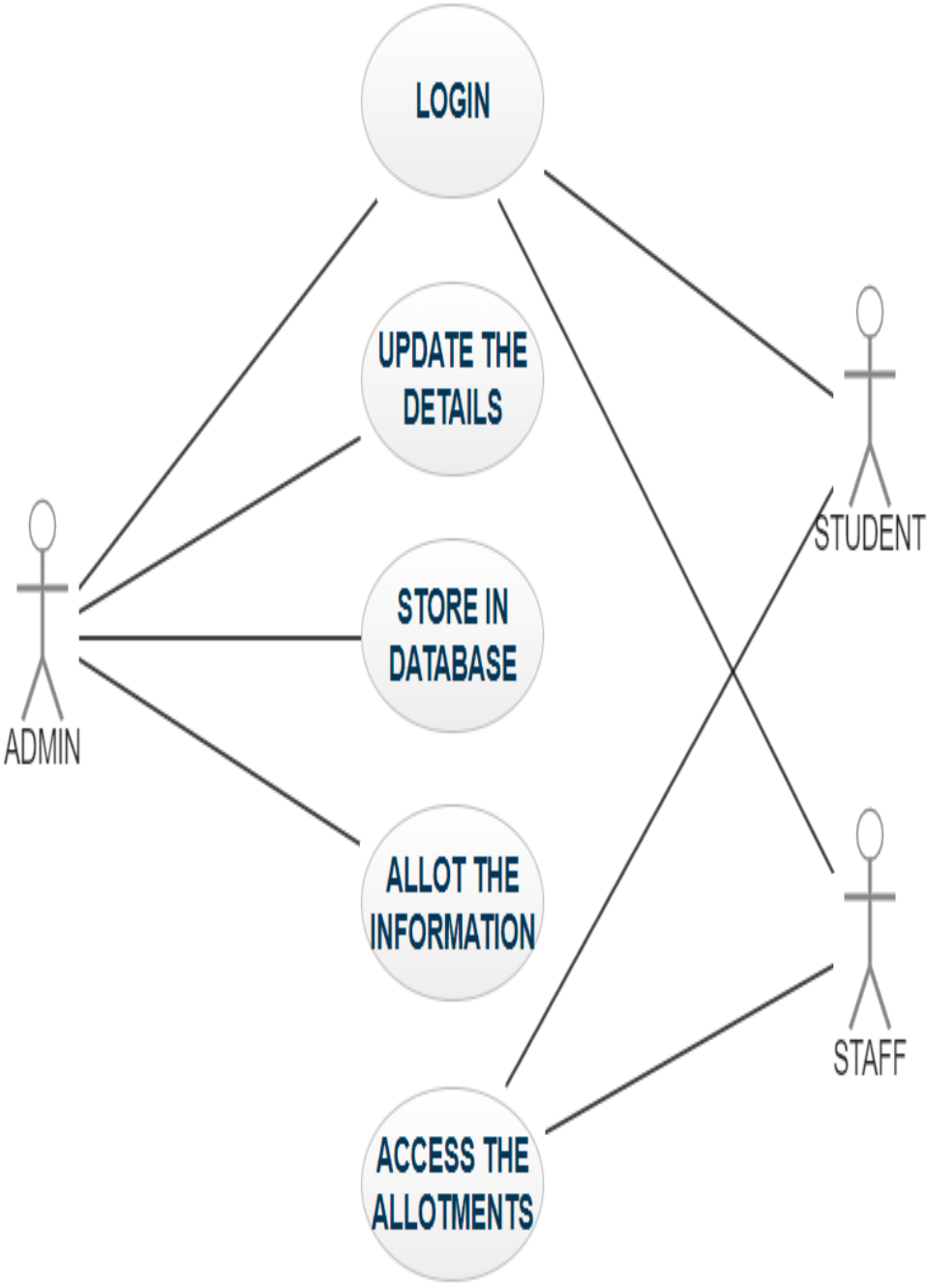


Fig 5.2 Use Case Diagram

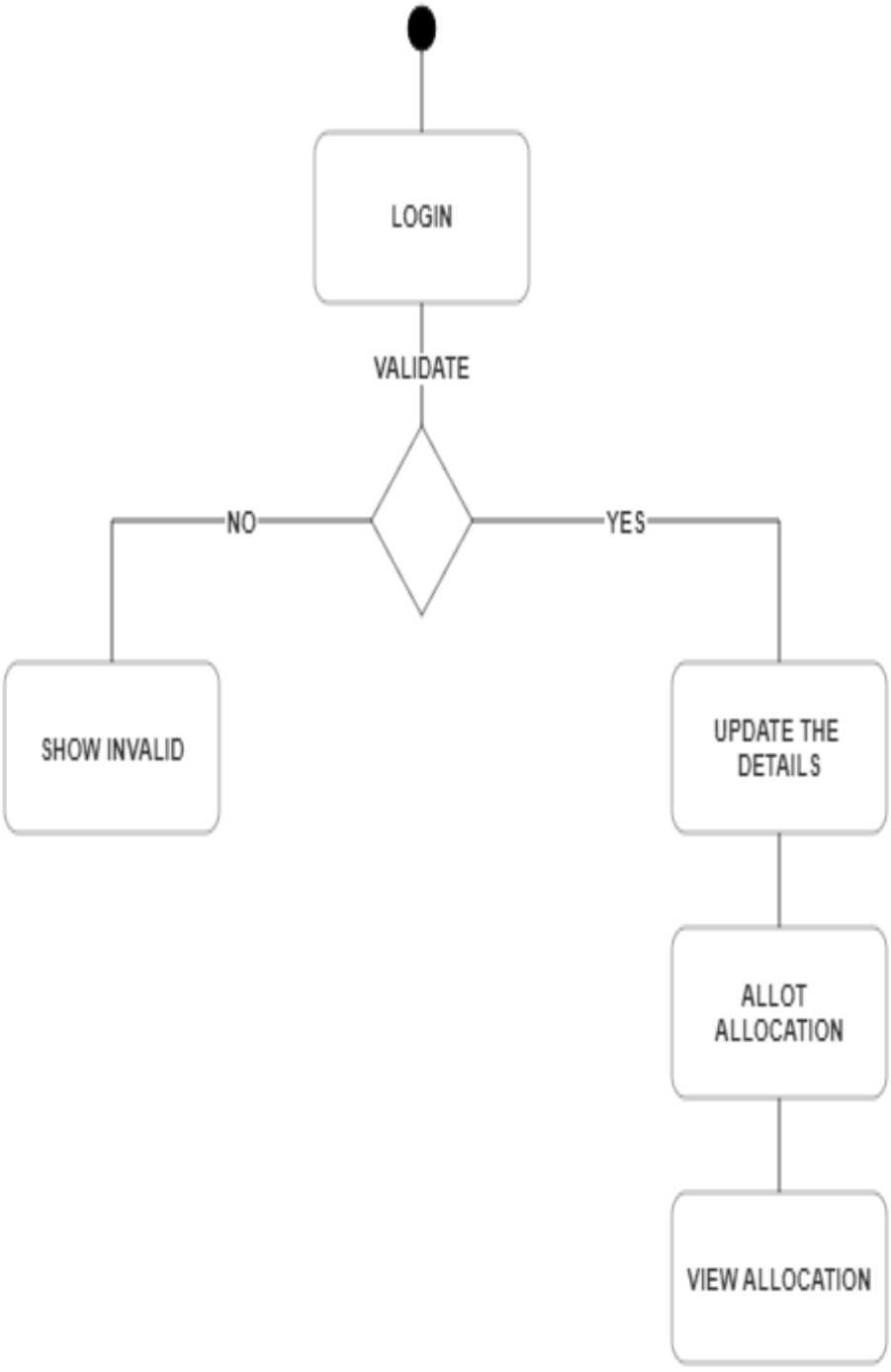


Fig 5.3 Activity Diagram

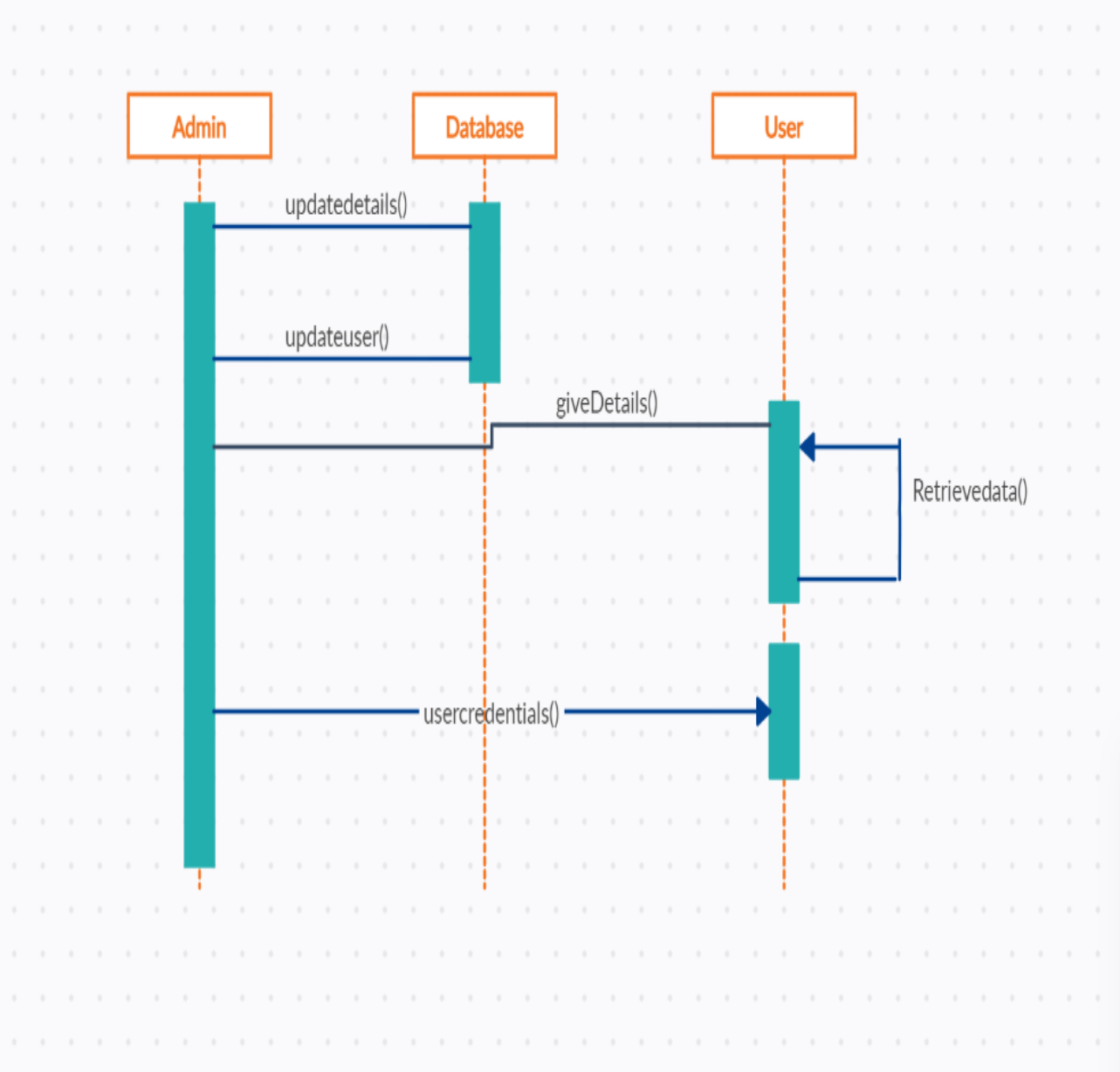


Fig 5.4 Sequence Diagram

CHAPTER 6

IMPLEMENTATION

The implementation plan includes a description of all the activities that must occur to implement the new system and to put into operation.

6.1 INTRODUCTION

In the process of implementation, we will see the implementing process of our login page, index page, staff panel, student panel and admin panel.

CODING:

6.2 LOGIN.PHP:

```
<?php session_start();?>
<?php include('head.php');?>
<link rel="stylesheet" href="popup_style.css">

   <?php
  include('connect.php');
if(isset($_POST['btn_login']))
{
$unm = $_POST['email'];

$passw = hash('sha256', $_POST['password']);

function createSalt()
{
    return '2123293dsj2hu2nikhiljdsd';
}
$salt = createSalt();
$pass = hash('sha256', $salt . $passw);

 $sql = "SELECT * FROM admin WHERE email='" .$unm . "' and password = '".
$pass."'";
    $result = mysqli_query($conn,$sql);
```

```
    $row  = mysqli_fetch_array($result);

     $_SESSION["id"] = $row['id'];
     $_SESSION["username"] = $row['username'];
     $_SESSION["password"] = $row['password'];
     $_SESSION["email"] = $row['email'];
     $_SESSION["fname"] = $row['fname'];
     $_SESSION["lname"] = $row['lname'];
     $_SESSION["image"] = $row['image'];
     $count=mysqli_num_rows($result);
     if($count==1 && isset($_SESSION["email"]) &&
isset($_SESSION["password"])) {
    {
        ?>
         <div class="popup popup--icon -success js_success-popup popup--visible">
  <div class="popup__background"></div>
  <div class="popup__content">
    <h3 class="popup__content__title">
      Success
    </h1>
    <p>Login Successfully</p>
    <p>

     <?php echo "<script>setTimeout(\"location.href =
'index.php';\",1500);</script>"; ?>
    </p>
  </div>
</div>

     <?php
    }
}
else {?>
     <div class="popup popup--icon -error js_error-popup popup--visible">
  <div class="popup__background"></div>
  <div class="popup__content">
    <h3 class="popup__content__title">
      Error
    </h1>
    <p>Invalid Email or Password</p>
```

```
   <p>
     <a href="login.php"><button class="button button--error" data-for="js_error-
popup">Close</button></a>
   </p>
  </div>
</div>

       <?php

        }

   }
?>

   <div id="main-wrapper">
      <div class="unix-login">
          <?php
          $sql_login = "select * from manage_website";
          $result_login = $conn->query($sql_login);
          $row_login = mysqli_fetch_array($result_login);
          ?>
         <div class="container-fluid"  style="background-image:
url('uploadImage/Logo/<?php echo $row_login['background_login_image'];?>');
 background-image: url('uploadImage/exam.png ">
             <div class="row justify-content-center" >
                <div class="col-lg-4">
                   <div class="login-content card">
                      <div class="login-form">
                         <center><img src="uploadImage/Logo/1.png"
style="width:50%;"></center><br>
                         <form method="POST">
                            <div class="form-group">
                               <label>Email address</label>
                               <input type="email" name="email" class="form-control"
placeholder="Email" required="">
                            </div>
                            <div class="form-group">
                               <label>Password</label>
                               <input type="password" name="password" class="form-
control" value="" id="myInput" placeholder="Password" required=""><br>
```

```
                                                                    <input
type="checkbox" onclick="myFunction()"> Show Password
                            </div>
                            <div class="checkbox">
                                <label class="pull-right">
                                    <a href="forgot_password.php">Forgotten
Password?</a>
                                </label>
                            </div>
                            <button type="submit" name="btn_login" class="btn btn-
primary btn-flat m-b-30 m-t-30">Sign in</button>

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

   </div>
        <script>
function myFunction() {
  var x = document.getElementById("myInput");
  if (x.type === "password") {
    x.type = "text";
  } else {
    x.type = "password";
  }
}
</script>

    <script src="js/lib/jquery/jquery.min.js"></script>

    <script src="js/lib/bootstrap/js/popper.min.js"></script>
    <script src="js/lib/bootstrap/js/bootstrap.min.js"></script>

    <script src="js/jquery.slimscroll.js"></script>

    <script src="js/sidebarmenu.js"></script>
```

```
    <script src="js/lib/sticky-kit-master/dist/sticky-kit.min.js"></script>

    <script src="js/custom.min.js"></script>

</body>

</html>
```

6.3 STUDENT.PHP:

```
<?php session_start();?>

<?php include('head.php');?>

<link rel="stylesheet" href="popup_style.css">


   <?php

  include('connect.php');

if(isset($_POST['btn_login']))

{

$unm = $_POST['email'];


$passw = hash('sha256', $_POST['password']);


function createSalt()

{

    return '2123293dsj2hu2nikhiljdsd';

}
```

```
$salt = createSalt();

$pass = hash('sha256', $salt . $passw);


 $sql = "SELECT * FROM tbl_student WHERE semail='" .$unm . "' and password
= '". $pass."'";

    $result = mysqli_query($conn,$sql);

    $row  = mysqli_fetch_array($result);


     $_SESSION["id"] = $row['id'];

    //  $_SESSION["username"] = $row['username'];

     $_SESSION["password"] = $row['password'];

     $_SESSION["semail"] = $row['semail'];

    //  $_SESSION["fname"] = $row['fname'];

    //  $_SESSION["lname"] = $row['lname'];

    //  $_SESSION["image"] = $row['image'];

     $count=mysqli_num_rows($result);

     if($count==1 && isset($_SESSION["semail"]) &&
isset($_SESSION["password"])) {

    {

        ?>

         <div class="popup popup--icon -success js_success-popup popup--visible">

  <div class="popup__background"></div>
```

```
  <div class="popup__content">
    <h3 class="popup__content__title">
      Success
    </h1>
    <p>Login Successfully</p>
    <p>
    <?php echo "<script>setTimeout(\"location.href =
'student_panel.php';\",1500);</script>"; ?>
     </p>
  </div>
</div>

     <?php
    }
}
else {?>
     <div class="popup popup--icon -error js_error-popup popup--visible">
  <div class="popup__background"></div>
  <div class="popup__content">
    <h3 class="popup__content__title">
      Error
    </h1>
```

```
    <p>Invalid Email or Password</p>

    <p>

      <a href="student.php"><button class="button button--error" data-
for="js_error-popup">Close</button></a>

    </p>

  </div>

</div>



        <?php



         }



    }

?>



    <div id="main-wrapper">

        <div class="unix-login">

<?php

$sql_login = "select * from manage_website"; $result_login = $conn-
>query($sql_login);

            $row_login = mysqli_fetch_array($result_login);

            ?>
```

```
        <div class="container-fluid"  style="background-image:
url('uploadImage/Logo/<?php echo $row_login['background_login_image'];?>');

 background-color:#87CEEB">

            <div class="row justify-content-center">

               <div class="col-lg-4">

                  <div class="login-content card">

                     <div class="login-form">

                        <center><img src="uploadImage/Logo/images.png"
style="width:50%;"></center><br>

                        <h3><center>Student Login</center></h3>

                        <form method="POST">

                           <div class="form-group">

                              <label>Email address</label>

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

                           </div>

                           <div class="form-group">

                              <label>Password</label>

   <input type="password" name="password" class="form-control" value=""
id="myInput" placeholder="Password" required=""><br>

                                                                  <input
type="checkbox" onclick="myFunction()"> Show Password

                           </div>
```

```
 <button type="submit" name="btn_login" class="btn btn-primary btn-flat m-b-30 m-t-30">Sign in</button>


                        </form>

                    </div>

                </div>

            </div>

        </div>

    </div>

<script>

function myFunction() {

  var x = document.getElementById("myInput");

  if (x.type === "password") {

    x.type = "text";

  } else {

    x.type = "password";

  }

}

</script>
```

```
   <script src="js/lib/jquery/jquery.min.js"></script>
 <script src="js/lib/bootstrap/js/popper.min.js"></script>
   <script src="js/lib/bootstrap/js/bootstrap.min.js"></script>
    <script src="js/jquery.slimscroll.js"></script>


    <script src="js/sidebarmenu.js"></script>
    <script src="js/lib/sticky-kit-master/dist/sticky-kit.min.js"></script>
    <script src="js/custom.min.js"></script>
</body>
</html>
```

6.4 STAFF.PHP:

```
<?php session_start();?>
<?php include('head.php');?>
<link rel="stylesheet" href="popup_style.css">

   <?php
  include('connect.php');
if(isset($_POST['btn_login']))
{
$unm = $_POST['email'];

$passw = hash('sha256', $_POST['password']);

function createSalt()
```

```
{
    return '2123293dsj2hu2nikhiljdsd';
}
$salt = createSalt();
$pass = hash('sha256', $salt . $passw);

 $sql = "SELECT * FROM tbl_teacher WHERE temail='" .$unm . "' and password
= '". $pass."'";
    $result = mysqli_query($conn,$sql);
    $row  = mysqli_fetch_array($result);

     $_SESSION["id"] = $row['id'];
     $_SESSION["password"] = $row['password'];
     $_SESSION["temail"] = $row['temail'];
     $_SESSION["fname"] = $row['tfname'];
     $_SESSION["lname"] = $row['tlname'];
     $count=mysqli_num_rows($result);
     if($count==1 && isset($_SESSION["temail"]) &&
isset($_SESSION["password"])) {
    {
        ?>
         <div class="popup popup--icon -success js_success-popup popup--visible">
  <div class="popup__background"></div>
  <div class="popup__content">
    <h3 class="popup__content__title">
      Success
    </h1>
```

```
    <p>Login Successfully</p>
    <p>

     <?php echo "<script>setTimeout(\"location.href =
'teacher_panel.php';\",1500);</script>"; ?>
    </p>
  </div>
</div>

     <?php
    }
}
else {?>
     <div class="popup popup--icon -error js_error-popup popup--visible">
  <div class="popup__background"></div>
  <div class="popup__content">
    <h3 class="popup__content__title">
      Error
    </h1>
    <p>Invalid Email or Password</p>
    <p>
      <a href="teacher.php"><button class="button button--error" data-
for="js_error-popup">Close</button></a>
    </p>
  </div>
</div>
```

```
        <?php

         }

    }
?>

    <div id="main-wrapper">
        <div class="unix-login">
            <?php
            $sql_login = "select * from manage_website";
            $result_login = $conn->query($sql_login);
            $row_login = mysqli_fetch_array($result_login);
            ?>
           <div class="container-fluid"  style="background-image:
url('uploadImage/Logo/<?php
echo $row_login['background_login_image'];?>');
 background-color:#90EE90">
                <div class="row justify-content-center">
                    <div class="col-lg-4">
                        <div class="login-content card">
                            <div class="login-form">
                                <center><img src="uploadImage/Logo/download.png"
style="width:50%;"></center><br>
 <h3><center>Staff Login</center></h3>
 <form method="POST">
  <div class="form-group">
```

```
 <label>Email address</label>
 <input type="email" name="email" class="form  control" placeholder="Email"
required="">
                                </div>
                                <div class="form-group">
                                   <label>Password</label>
                                   <input type="password" name="password" class="form-
control" value="" id="myInput" placeholder="Password" required=""><br>
                                                                                <input
type="checkbox" onclick="myFunction()"> Show Password
                                </div>
  <button type="submit" name="btn_login" class="btn btn-primary btn-flat       m-
b-30 m-t-30">Sign in</button>

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

    </div>
          <script>
function myFunction() {
  var x = document.getElementById("myInput");
  if (x.type === "password") {
```

```
    x.type = "text";
  } else {
    x.type = "password";
  }
}
</script>
<script src="js/lib/jquery/jquery.min.js"></script>
<script src="js/lib/bootstrap/js/popper.min.js"></script>
<script src="js/lib/bootstrap/js/bootstrap.min.js"></script>
<script src="js/jquery.slimscroll.js"></script>
<script src="js/sidebarmenu.js"></script>
 <script src="js/lib/sticky-kit-master/dist/sticky-kit.min.js"></script>
<script src="js/custom.min.js"></script>
</body>
</html>
```

CHAPTER 7
SOFTWARE TESTING

7.1 TEST CASE SCENARIO

In Testing Process, We are in condition to make the Login with valid credentials to prevent error in this condition. The test cases were built to check those conditions and other modules in this software system. The table below shows the test results of the system.

7.2 MANUAL TESTING

In manual testing, we have to test the every module that they running without any bugs.

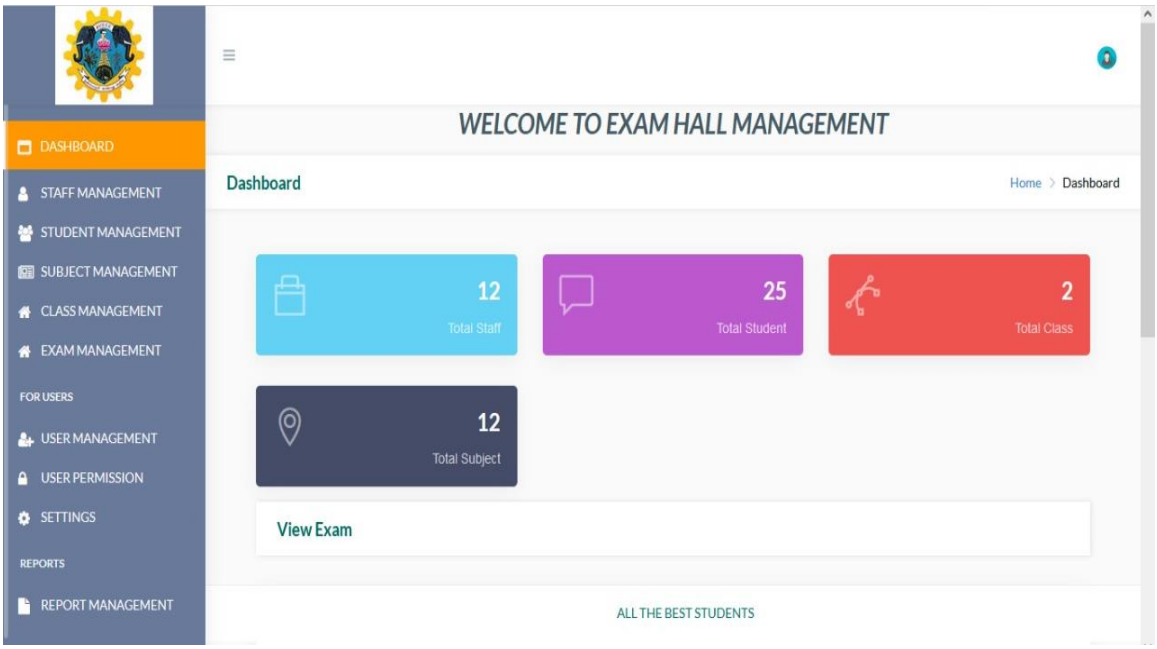
Table 7.1 Test Results

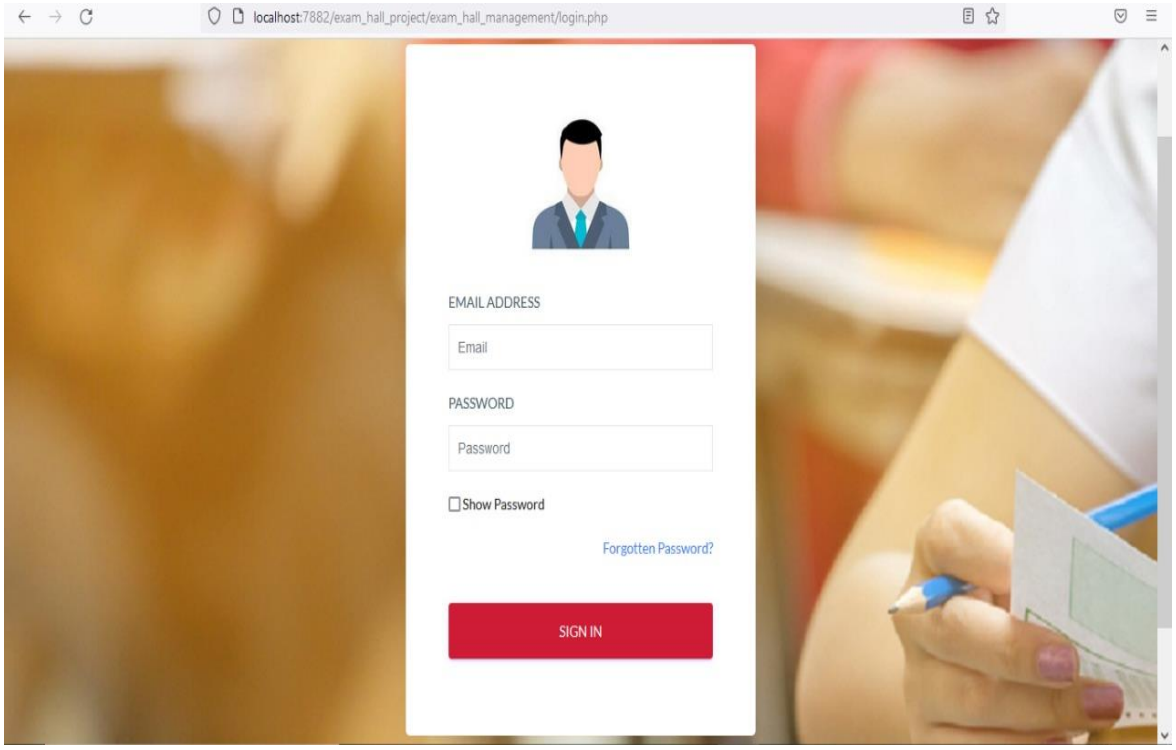
NO	TEST CASE SCENARIO	EXPECTED RESULT	TEST RESULT	TEST ANALYSIS
1	Admin updating user credentials	Providing email and password for the users	Providing email and password for the users	PASS
2	Student enter using credential	Entered into the system with given credentials	Entered into the system with given credentials	PASS
3	Checking student credentials	Checking the data whether their credentials are correct or not.	Entered into the system with given credentials	PASS
4	Staff enter using credential	Entered into the system with given credentials	Entered into the system with given credentials	PASS
5	Checking Staff credentials	Checking the data whether their credentials are correct or not.	Checking the data whether their credentials are correct or not.	PASS
6	Retrieving Timetable	Accessing the timetable for examination	Accessing the timetable for examination	PASS
7	Showing the Output	The appropriate result will be shown	The appropriate result will be shown	PASS

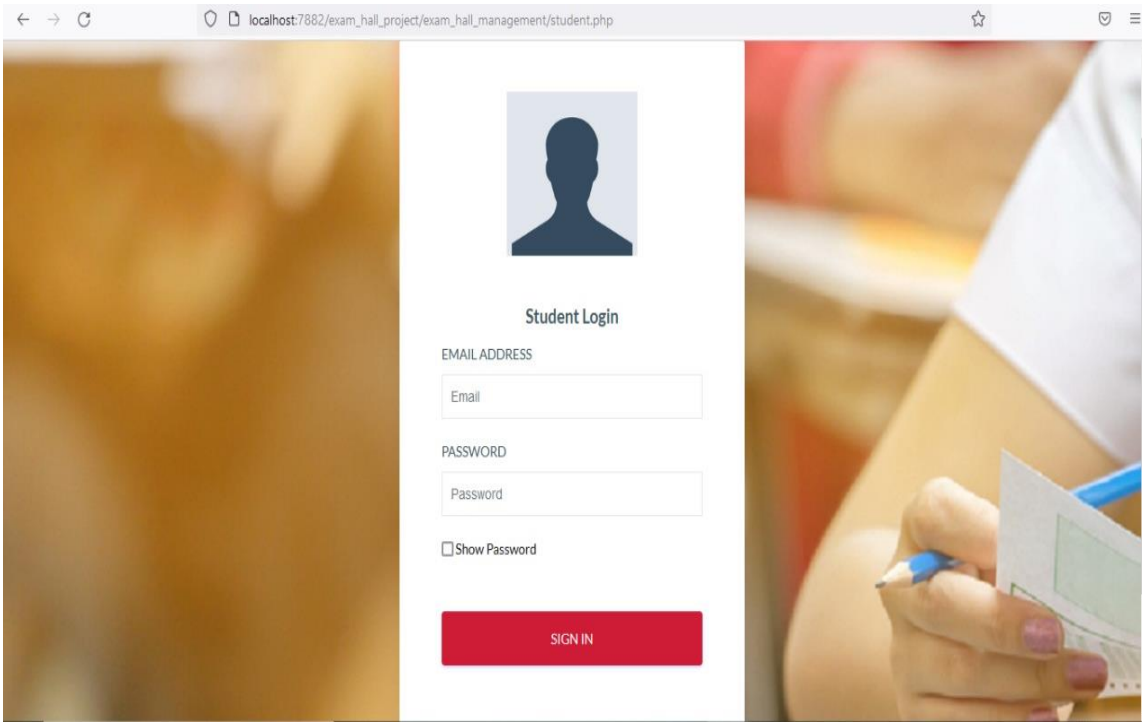
CHAPTER 8

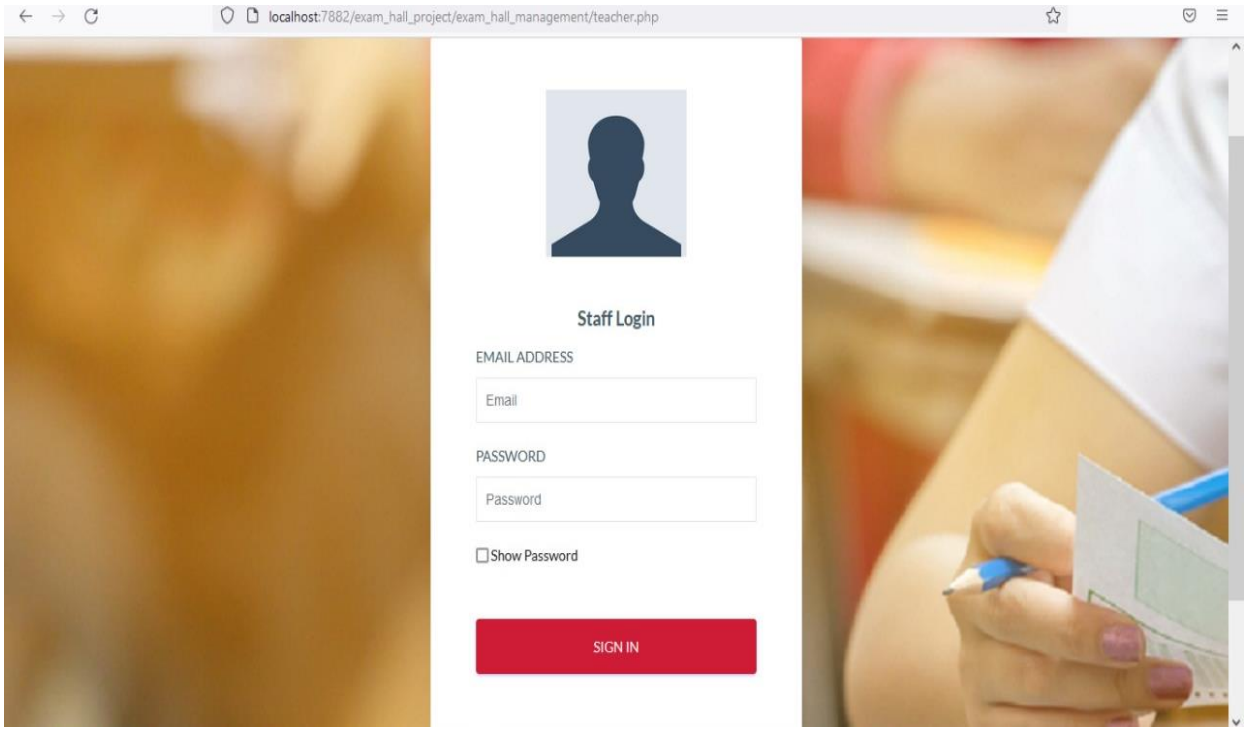
RESULTS AND DISCUSSION

SAMPLE OUTPUT SCREENSHOTS:




localhost:7882/exam_hall_project/exam_hall_management/login.php
EMAIL ADDRESS
Email
PASSWORD
Password
Show Password
Forgotten Password?
SIGN IN


localhost:7882/exam_hall_project/exam_hall_management/student.php
Student Login
EMAIL ADDRESS
Email
PASSWORD
Password
Show Password
SIGN IN


localhost:7882/exam_hall_project/exam_hall_management/teacher.php
Staff Login
EMAIL ADDRESS
Email
PASSWORD
Password
Show Password
SIGN IN

CHAPTER 9
CONCLUSION AND FUTURE ENHANCEMENT

9.1 CONCLUSION

It is concluded that the application works well and satisfy the end users. The application is tested very well and errors are properly debugged. The application is simultaneously accessed from more than one system. Simultaneous login from more than one place is tested. This system is user friendly so everyone can use easily. Proper documentation is provided. The end user can easily understand how the whole system is implemented by going through the documentation. The system is tested, implemented and the performance is found to be satisfactory. All necessary output is generated. Thus, the project is completed successfully. Further enhancements can be made to the application, so that the application functions very attractive and useful manner than the present one. The speed of the transactions become more enough now..

9.2 FUTURE ENHANCEMENT

The existing system can be enhanced, by storing the hall ticket into a database, instead of a file so that the statistics about the hall ticket obtained can be easily analyzed. Using php, insert the timetable by entering the time and date for the particular papers and create the seating arrangement. And also database of the exam timetable can be entered by student to view their halls and timing of the exam. By internet, automatically timetable has to fetch to the database and that seating want to be created according to the particular day and session.

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