Computer Center Management System

Project Report Submitted to National Skill Training Institute for Women,

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Diploma(Vocational) in IT, Networking and Cloud

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ABSTRACT

To develop a Computer Institute Management System that will overlook the activities going inside the particular institutions without manual processing. All information should be updated automatically by using the information stored in the database by providing a GUI interface to the end user. The main motive behind this Computer Institute Management System project is to develop a system which will be able to handle the overall tasks going inside the institutions without much effort.

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1. INTRODUCTION

The objective of this project is to develop a system that automates the processes and activities based on Computer Center.

1.2 INTRODUCTION ABOUT DOMAIN

To provide correct information to the correct person, it will provide login menu for admin. This Computer Institute Management System will be accessed by two types of users:-

- 1. Admin.
- 2. Employee

Admin will have to authority to add, delete, modify for all the contents and information including its data used in this Computer Institute Management System. Admin will also be responsible to provide user id to their different employees. Admin will have the authority to add information and provide permission to particular person for accessing particular resources under this system. Employee will have the authority to add information and manage the datas of the users.

1.3 PROJECT DESCRIPTION

The Computer Institute Management System is all about managing the services in computer centre. The main motive behind this Computer Institute Management System project is to develop a system which will able to handle the overall tasks going inside the institutions without much effort. The main motive behind this Computer Institute Management System project is to develop a system which will able to handle the overall tasks going inside the institutions without much effort.

1.4 SCOPE OF WORK

Any Institute faces various difficulties in managing records along with its various attributes associated with this system. They have to maintain various records manually. They have to check manually for each and every activity going inside particular institutions. To overcome this problem a computer based Computer Institute Management System is required. This project can make daily work faster and mistake free.

2. SYSTEM ANALYSIS

2.1 EXISTING SYSTEM

Current Computer Institute Management System is not able to maintain dynamic information and not able to keep records of that particular event. To maintain all these records they have to use old process of record keeping system that is by using files and papers. This information can be misused or may include fault entry which will not able to provide correct information. If any error occurs then manual searching and updating process required to correct that particular information. Due to these limitations we have developed new "Computer institute management system project" which could solve all the above problems.

2.2 PROPOSED SYSTEM

- Reliable & accurate: This is a computer based information system. All the calculation is done automatically by the computers so less chance of human errors.
- Non redundant information: This is a computer based management information system so it contains various checks that reduce data redundancy.

- Fast and efficient processing: New system uses database as backend.
 User can get the information easily, fast and efficiently.
- Centralized database: In new Computer institute management system
 project data records are kept in centralized database. Therefore any
 authorized user can access record. Display of daily updated information
 is easy. Searching of any particular record is easy and faster. This
 system provides secure database access to the only authorized person.
- GUI based interactive screens: Proposed system contains GUI based interactive screens that are easy to understand.

3. SOFTWARE DEVELOPMENT ENVIRONMENT

Broadly this website would be able to portrait dynamic content on a webpage as well as give the user interactive input sessions. This would require,

- 1. A server side scripting language that would process data on the request of the user.
- 2. An effective way of storing all the data which the website uses to output the results. In short a Database management System.
- 3. A query language to effectively retrieve ,alter and add to the stored data in our database.
- 4. A interface to represent the output of the scripting language in the form of html.
- A web server which is needed to host the website and to do all the computations needed to portrait the generated data on the basis of input received from the user.

Finally, we have chosen PHP as the server side scripting language with Apache as the server facilitating the processing of PHP code. Also, MySQL is the relational database management system used, while SQL is our query language.

PHP became the first choice because of its platform independency and it's widespread use as a web development scripting language giving it an edge over other alternatives. Also it is an open source software and has many built in functions to facilitate common practical problems.

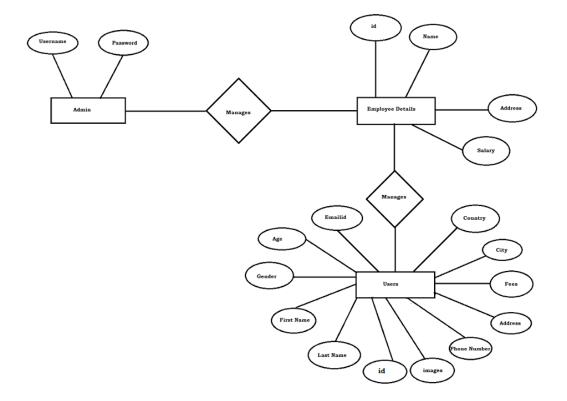
MYSQL became a choice as it's also a platform independent software and

works very well with PHP. PHP facilitates very good communication with the MySQL database. Now the server-Apache was taken as it is an open source project and can be found easily on the internet.

4. SYSTEM DESIGN

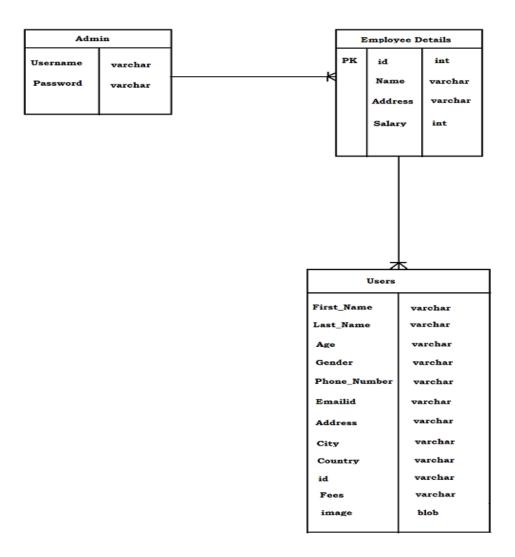
4.1 ER DIAGRAM

An Entity–relationship model (ER model) describes the structure of a database with the help of a diagram, which is known as Entity Relationship Diagram (ER Diagram). An ER model is a design or blueprint of a database that can later be implemented as a database.



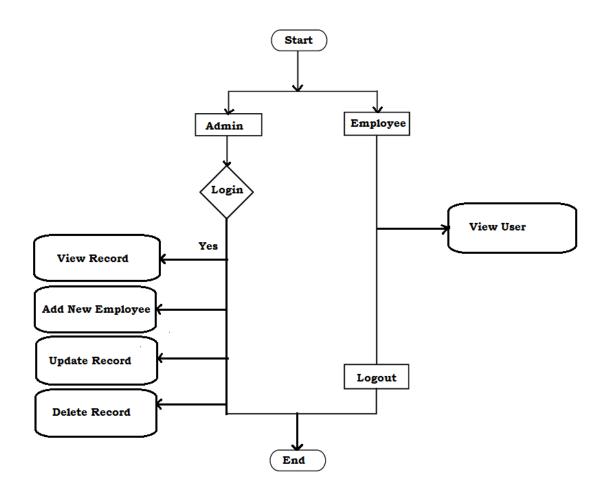
4.2 CLASS DIAGRAM

Class diagram is a static diagram and it is used to model the static view of a system. It describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modeling of object oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages. Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram.



4.3 FLOW CHART

A flowchart is a diagram that depicts a process, system or computer algorithm. They are widely used in multiple fields to document, study, plan, improve and communicate often complex processes in clear, easy-to-understand diagrams. Flowcharts, sometimes spelled as flow charts, use rectangles, ovals, diamonds and potentially numerous other shapes to define the type of step, along with connecting arrows to define flow and sequence.



5. SYSTEM REQUIREMENTS

5.1 SOFTWARE SPECIFICATION

Operating System: Windows 7 or above

Front End: HTML, CSS, JavaScript

Back End: PHP, MySQL

Code Editor: Notepad++, Visual Code

Software: XAMPP Server

Server : Apache Web

Browser: Google Chrome

5.2 HARDWARE SPECIFICATION

RAM: 1 GB or above

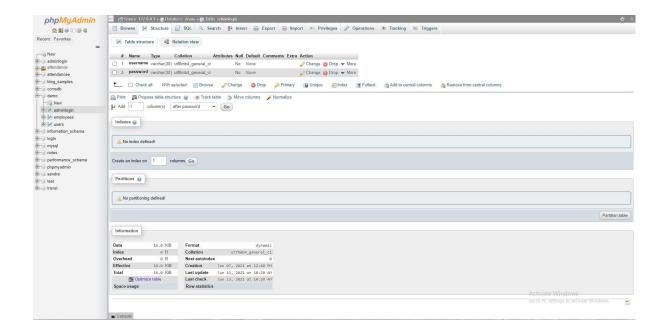
Processor: 1 GHz or more

Hard Drive: 32 GB or above

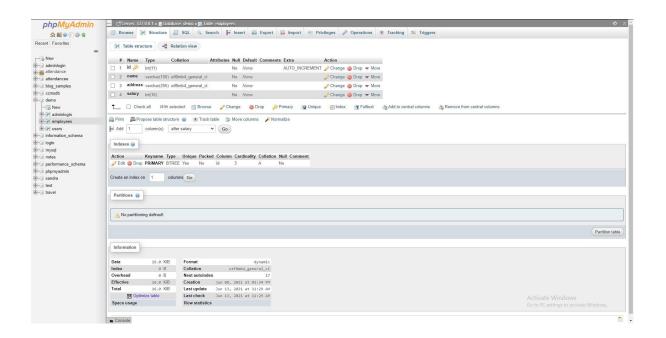
Network Connectivity: LAN or Wi-Fi

6. DATABASE TABLES

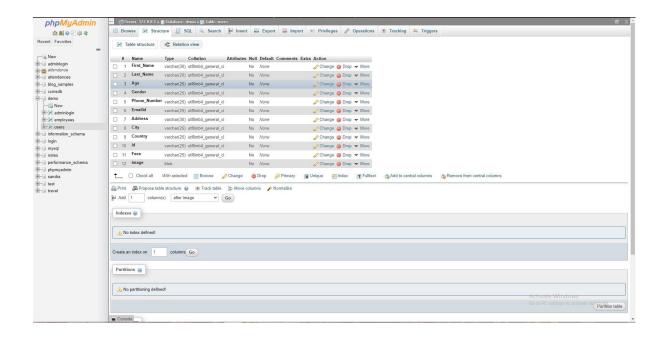
1. Table- adminlogin



2. Table- employees



3. users



7. SOURCE CODE

```
index.php
<!DOCTYPE html>
<html lang="en">
<head>
  <title>PHP login system</title>
  <!-- insert style.css file inside index.html-->
  k rel="stylesheet" type="text/css" href="style.css">
  <style>
    h1 {
      text-align: center;
      font-family: "Sans-serif",Arial;
    }
```

```
</style>
</head>
<body>
  <div>
    <button id="Button"><b>Admin Login</b></button>
    <script type="text/javascript">
      document.getElementById("Button").onclick = function() {
        location.href = "admin.php";
      };
    </script>
    </div>
  <h1 style="color:brown;">Mentorus Computer Training Centre</h1>
```

```
<img src="../images/about.jpg" alt="computer" width="2000" height="900">
  </div>
</body>
</html>
admin.php
<!DOCTYPE html>
<html lang="en">
<head>
  <title>login system</title>
  <!-- insert style.css file inside index.html-->
  k rel="stylesheet" type="text/css" href="style.css">
</head>
```

```
<body>
  <div id="frm">
    <img src = "../images/adminlogin.jpg" alt="admin" width="500" height="300" />
         <form name="f1" action="authentication.php" onsubmit="return validation()"</pre>
method="POST">
      >
        <label><b> UserName: </b></label>
        <input type="text" id="user" name="user" />
      <label><b> Password:</b> </label>
        <input type="password" id="pass" name="pass" />
```

```
>
      <input type="submit" id="click" value="Login" />
      <input type="reset" id="click" value="Cancel" />
  </form>
  </div>
<!-- validation for empty field -->
<script>
  function validation() {
    var id = document.f1.user.value;
    var ps = document.f1.pass.value;
    if (id.length == "" && ps.length == "") {
      alert("User Name and Password fields are empty");
      return false;
```

```
} else {
         if (id.length == "") {
           alert("User Name is empty");
           return false;
         }
         if (ps.length == "") {
           alert("Password field is empty");
           return false;
         }
      }
    }
  </script>
</body>
```

connection.php

```
<?php
  $servername = "localhost";
  $username = "root";
  $password = ";
  $dbname = "demo";
  $con = mysqli_connect($servername, $username, $password, $dbname);
  if(mysqli_connect_errno()) {
    die("Failed to connect with MySQL: ". mysqli_connect_error());
 }
  ?>
```

```
Retrieve.php
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Dashboard</title>
linkrel="stylesheet"href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstr
ap.min.css">
linkrel="stylesheet"href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css">
  <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
<scriptsrc="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scrip</pre>
t>
<scriptsrc="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></scr</pre>
ipt>
  <style>
```

```
.wrapper{
    width: 600px;
    margin: 0 auto;
  }
  table tr td:last-child{
    width: 120px;
  }
</style>
<script>
  $(document).ready(function(){
    $('[data-toggle="tooltip"]').tooltip();
  });
</script>
```

```
</head>
<body>
>
    <button id="Button" class="float-left submit-button"><b>View user</b></button>
    <script type="text/javascript">
      document.getElementById("Button").onclick = function() {
        location.href = "user.php";
      };
    </script>
  <div class="wrapper">
    <div class="container-fluid">
      <div class="row">
```

```
<div class="col-md-12">
           <div class="mt-5 mb-3 clearfix">
             <h2 class="pull-left">Employees Details</h2>
                    <a href="create.php" class="btn btn-success pull-right"><i class="fa"
fa-plus"></i> Add New Employee</a>
           </div>
           <?php
           // Include config file
           require_once "connection.php";
           // Attempt select query execution
           $sql = "SELECT * FROM employees";
           if($result = mysqli_query($con, $sql)){
             if(mysqli_num_rows($result) > 0){
```

```
echo '';
 echo "<thead>";
  echo "";
    echo "id";
    echo "Name";
    echo "Address";
    echo "Salary";
    echo "Action";
  echo "";
 echo "</thead>";
 echo "";
 while($row = mysqli_fetch_array($result)){
  echo "";
```

```
echo "" . $row['name'] . "";
                    echo "" . $row['address'] . "";
                    echo "" . $row['salary'] . "";
                    echo "";
    echo '<a href="read.php?id='. $row['id'] ." class="mr-3" title="View Record"
data-toggle="tooltip"><span class="fa fa-eye"></span></a>';
    echo '<a href="update.php?id='. $row['id'] ."" class="mr-3" title="Update Record"
data-toggle="tooltip"><span class="fa fa-pencil"></span></a>';
   echo '<a href="delete.php?id='. $row['id'] ."' title="Delete Record"
data-toggle="tooltip"><span class="fa fa-trash"></span></a>';
                    echo "";
                  echo "";
                }
                echo "";
```

echo "" . \$row['id'] . "";

```
echo "";
               // Free result set
               mysqli_free_result($result);
             } else{
                           echo '<div class="alert alert-danger"><em>No records were
found.</em></div>';
             }
           } else{
             echo "Oops! Something went wrong. Please try again later.";
           }
           // Close connection
           mysqli_close($con);
           ?>
```

```
</div>
      </div>
    </div>
  </div>
</body>
</html>
User.php
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Dashboard</title>
  k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
```

```
k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
  k rel="stylesheet" type="text/css" href="style.css">
  <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
  <style>
    .wrapper{
      width: 1500px;
      margin: 0 auto;
    }
    table tr td:last-child{
      width: 120px;
```

```
}
  </style>
  <script>
    $(document).ready(function(){
      $('[data-toggle="tooltip"]').tooltip();
    });
  </script>
</head>
<body>
<div class="wrapper">
    <div class="container-fluid">
       <div class="row">
         <div class="col-md-12">
```

```
<div class="mt-5 mb-3 clearfix">
  <h2 class="pull-left">Users Details</h2>
  </div>
<?php
// Include config file
require_once "connection.php";
// Attempt select query execution
$sql = "SELECT * FROM users";
if($result = mysqli_query($con, $sql)){
  if(mysqli_num_rows($result) > 0){
    echo '';
```

```
echo "<thead>";
 echo "";
  echo ">First Name";
  echo "Last Name";
  echo "Age";
  echo "Gender";
  echo "Phone Number";
  echo "Emailid";
  echo "Address";
  echo "City";
  echo "Country";
  echo "id";
  echo "Fees";
```

```
echo "image";
echo "";
echo "</thead>";
echo "";
while($row = mysqli_fetch_array($result)){
 echo "";
   echo "" . $row['First_Name'] . "";
   echo "" . $row['Last_Name'] . "";
   echo "" . $row['Age'] . "";
   echo "" . $row['Gender'] . "";
   echo "" . $row['Phone_Number'] . "";
   echo "" . $row['Emailid'] . "";
   echo "" . $row['Address'] . "";
```

```
echo "" . $row['City'] . "";
                   echo "" . $row['Country'] . "";
                   echo "" . $row['id'] . "";
                   echo "" . $row['Fees'] . "";
echo"".'<imgsrc="data:image;base64,'.base64_encode($row["image"])."" alt="image"
style="width:120px; height:70px;">'. "";
                   echo "";
               }
             echo "";
             echo "";
             // Free result set
             mysqli_free_result($result);
           } else{
```

```
echo '<div class="alert alert-danger"><em>No records were found.</em></div>';
           }
        } else{
           echo "Oops! Something went wrong. Please try again later.";
        }
        // Close connection
        mysqli_close($con);
         ?>
      </div>
    </div>
  </div>
</div>
```

```
<a href="logout.php"class="float-right"><a href="logout.php"><a href=
submit-button"><button><b>Logout</b></button></a>
</body>
 </html>
 Style.css
 body {
                       background: #eee;
         }
           .bttn{
                         position: absolute;
                       right: 0;
                       bottom: 0;
         }
           #click {
```

```
background-color: gray; /* Gray */
 border: none;
 color: white;
 padding: 15px 32px;
 text-align: center;
 text-decoration: none;
 display: inline-block;
 font-size: 16px;
 margin: 4px 2px;
 cursor: pointer;
}
#Button {
 position: absolute;
```

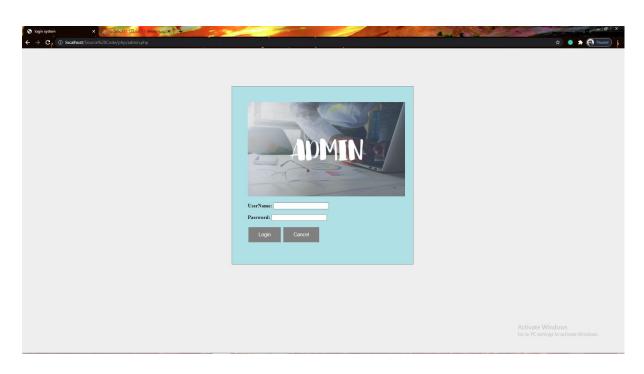
```
color: rgb(63, 56, 56);
 top: 5%;
 right: 0;
 width: 120px;
 transform: translateY(-50%);
}
#frm {
 border: solid gray 1px;
 width: 25%;
 border-radius: 2px;
 margin: 120px auto;
 background: powderblue;
 padding: 50px;
```

8. SCREENSHOTS

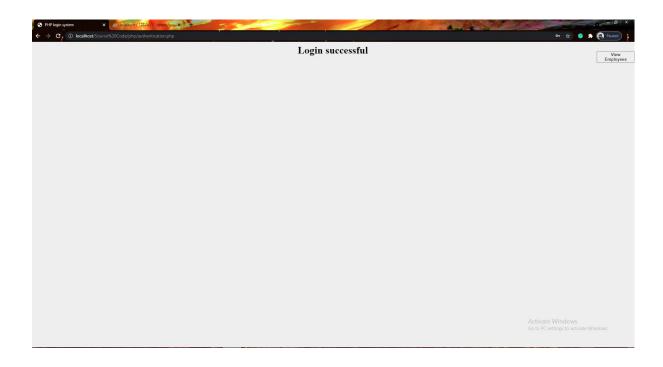
1. Homepage



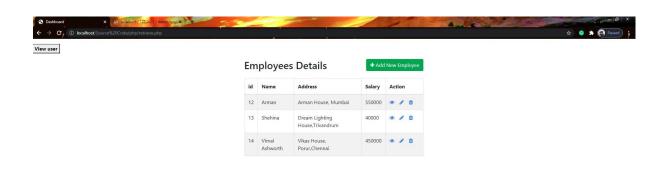
2. Admin Login



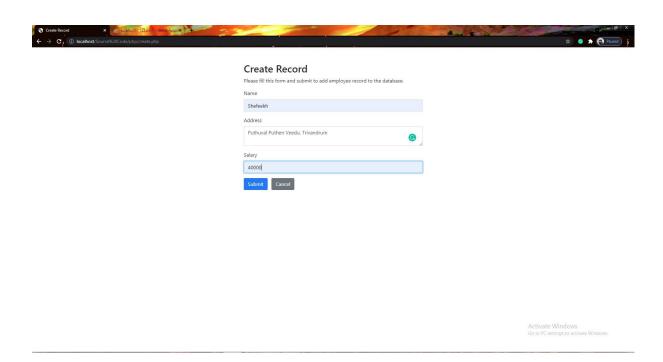
3. Login Page



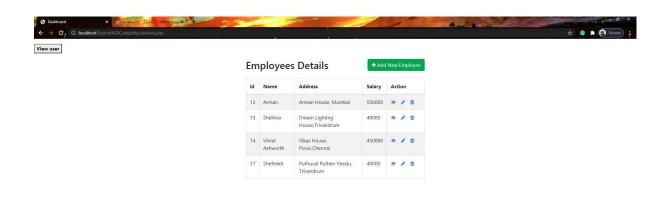
4. Employee Details



5. Add New Employee

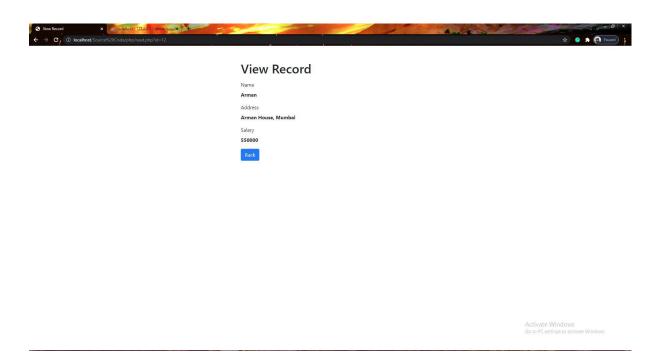


6. Employee Added

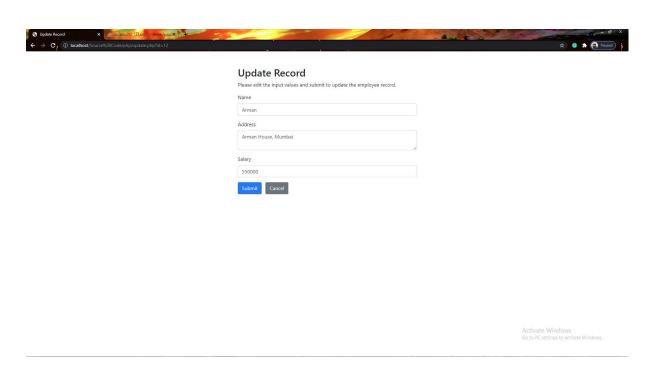


Activate Windows
So to PC settings to activate Windows.

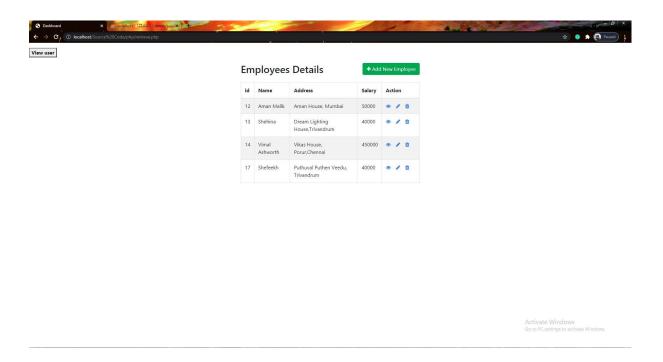
7. View Record



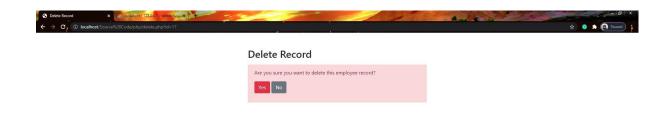
8. Update Record



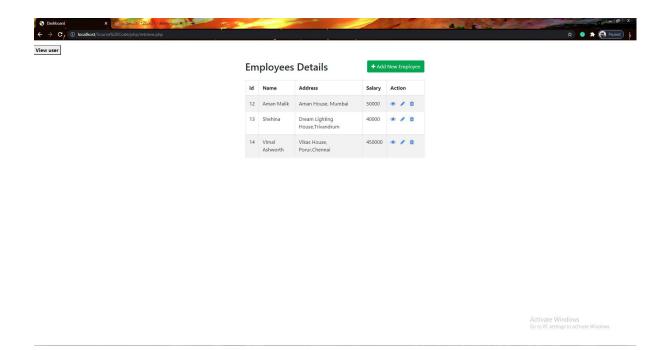
9. Updated Record



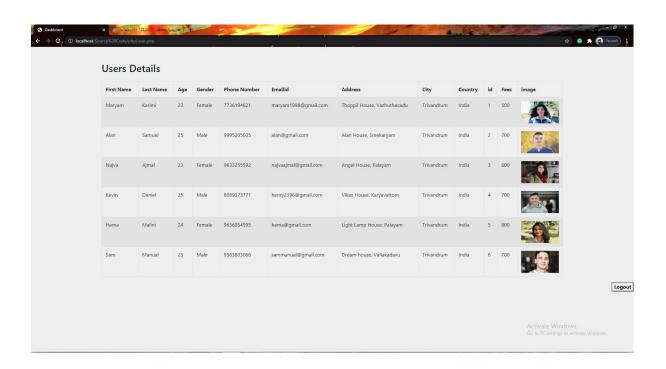
10. Delete Record



11. Record Deleted



12. View User



9. CONCLUSION

The purpose of this project was to help the Institute/College/School facing various difficulties in managing student and staff member's records. Hence, this Computer Institute Management System project will help to develop a system which will able to handle the overall tasks going inside the institutions without much effort.

10. REFERENCE

- 1. https://www.tutorialrepublic.com/php-tutorial/php-mysql-crud-applicatio
 n.php
- 2. https://www.w3schools.com/php/DEFAULT.asp
- 3. https://stackoverflow.com/
- 4. https://phpgurukul.com/php-tutorials/