MES COLLEGE OF ENGINEERING
KUTTIPPURAM
DEPARTMENT OF COMPUTER SCIENCE

CSL 333
DATABASE MANAGEMENT SYSTEMS LAB

PROJECT
PERSONAL INFORMATION SYSTEM

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INTRODUCTION

Personal Information System is a system which is designed to efficiently manage personal data, ensuring security through user authentication. Our project encompasses essential functions such as a dynamic dashboard, seamless search capabilities, and the ability to add and retrieve personal details.The primary objective of our Personal Information System is to create a secure, efficient, and user-friendly platform for managing personal data. Whether it's for individual use or organizational purposes, our system aims to streamline the process of handling personal information while maintaining the highest standards of data security.

Key Features:

- User Authentication
- Dashboard
- Efficient Search Functionality
- Add Personal Details
- Retrieve personal Details

Technical Details:

- MySQL Database Server
- PHP for Server-Side rending
- HTML and CSS
- Apache Server

.IMPLEMENTATION

DATABASE CREATION:

To create a database and tables in MySQL, you can follow these steps:

• Connect to the MySQL server using the MySQL client. You will

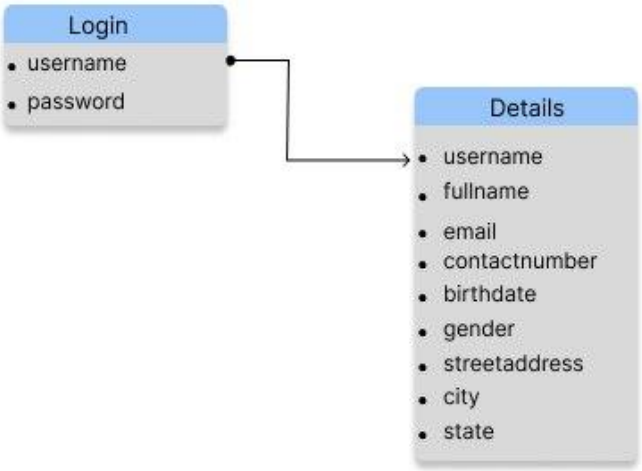
need to enter your MySQL username and password to log in.

• Use the “CREATE DATABASE” command to create a new database

• Use the “USE” command to select the database you just created.

•Use the “CREATE TABLE” command to create a new table in the selected database.You will need to specify the name of the table and the names and data types of the columns in the table.

The database design for this project is as follows:



The above result when converted to SQL it is equivalent to:

//DATABASE: 'personal_information':

```
CREATE DATABASE personal_information;

USE personal_information;
```

//Table Structure for table 'Login'

```
CREATE TABLE Login (username varchar(11) ,

password varchar(11));
```

//Data for table 'Login'

```
INSERT INTO  Login VALUES

("admin", "admin123");
```

//Table structure for table 'Details'

```
CREATE TABLE Details (username varchar(50) ,fullname  varchar(50) ,email  varchar(50),
contactnumber varchar(50), birthdate varchar(50),   gender varchar(50), streetaddress
varchar(100), city varchar(50), state varchar(50));
```

//Indexes for table 'Login'

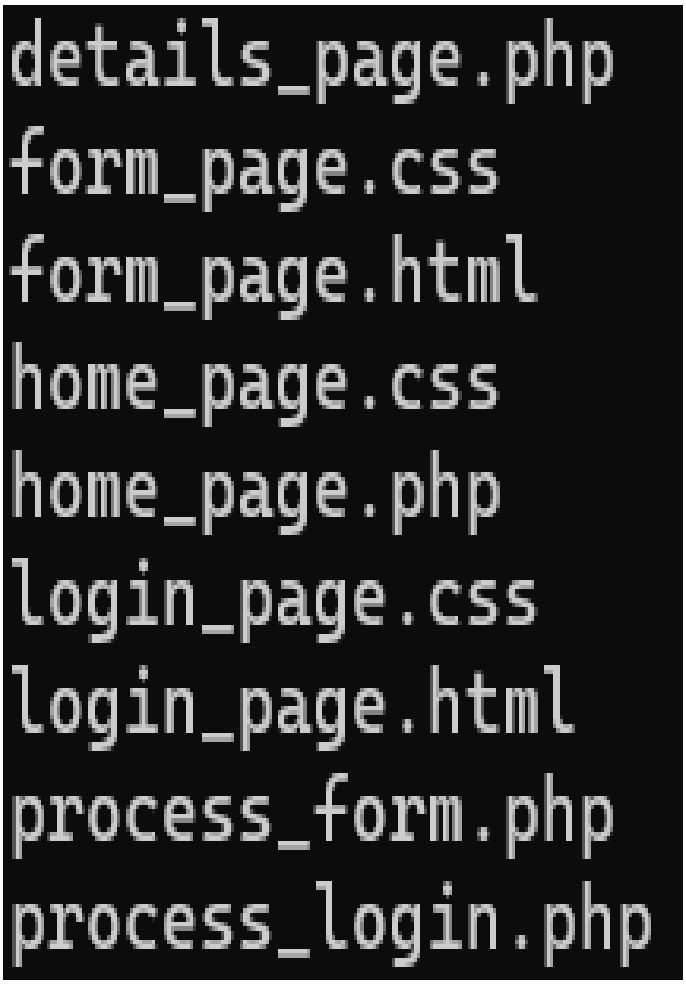
```
ALTER TABLE login

ADD PRIMARY KEY (username);
```

//Indexes for table 'Details':

```
ALTER TABLE details

ADD PRIMARY KEY (username);
```

STRUCTURE OF FILES

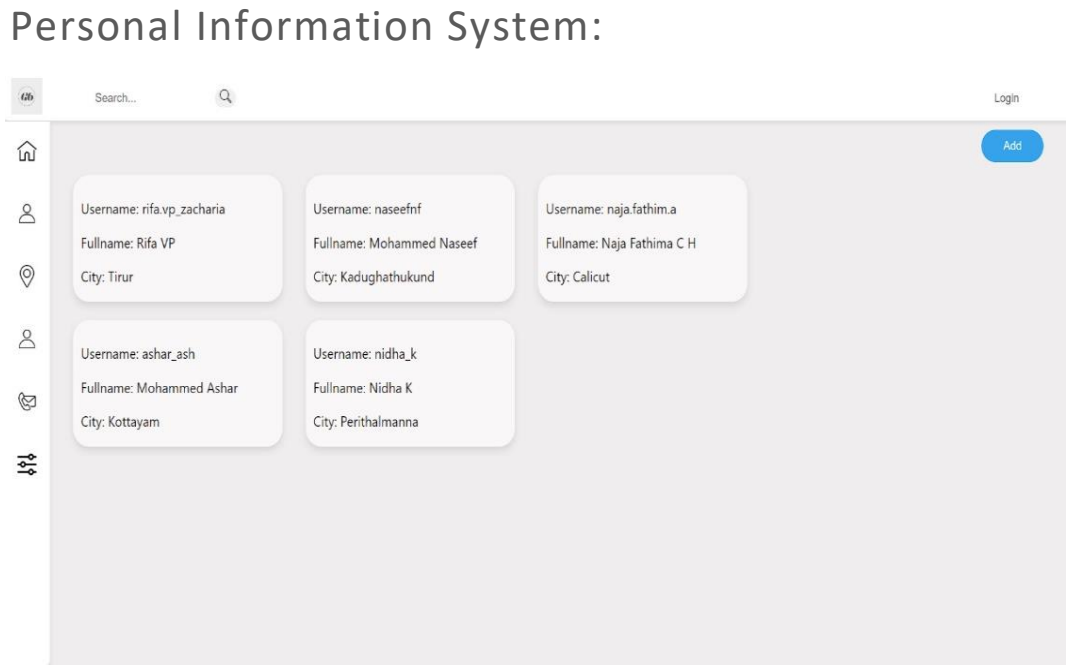
The following is a directory structure for the Personal Information System Project.It includes all the necessary files and directories for the project, organized in a logical and easy-to-navigate manner.The directory structure includes various files that performs different functions of Personal Information System Project. ‘materialize.min.css’ is a framework used from the internet to help in the Styling of the CSS code.We have to open WAMP and start the ‘MySQL Database’ and ‘Apache Web Server’ for the Hospital Management System to be loaded into localhost(127.0.0.1) along with its database.



HOME PAGE

The home_page.php is a crucial component of the project, offering users a snapshot of personalized information in a compact user-box. Within this user-box, the webpage displays key details such as the user's username, full name, and city, providing a concise overview of the individual. Users can interact with this information by clicking on the user-box, initiating a redirection to the details_page.php for a more comprehensive view of the user's personal details.

Additionally, the home_page.php features essential functionalities represented by the "Add" and "Login" buttons. Clicking the "Add" button prompts a redirection to the login page, serving as an authentication gateway. This security measure ensures that only authorized users can access and add personal details. This strategic integration of user authentication enhances the overall project's security and privacy, making it a pivotal page in the system's architecture. The seamless combination of displaying brief user information and providing secure avenues for adding and accessing additional details makes the home_page.php a central and essential hub within the project.



home_page.php is loaded here

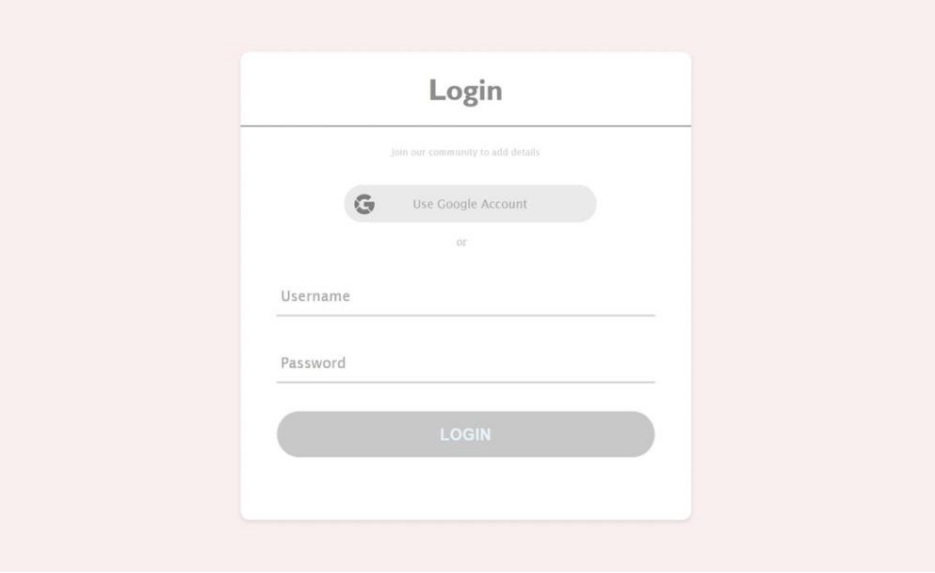
//‘home_page.php’:

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "personal_information";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT username, fullname, city FROM details";
$result = $conn->query($sql);

if ($result === FALSE) {
   die("Error executing the query: " . $conn->error);
}

if ($result->num_rows > 0) {
   $count = 0;
   while ($row = $result->fetch_assoc()) {
      if ($count % 3 == 0) {
         echo '<div class="clearfix"></div>';
      }
```

```
        echo '<div class="user-box" onclick="showDetails(\''. $row['username'] .'\')">';
        echo '<p>Username: ' . $row['username'] . '</p>';
        echo '<p>Fullname: ' . $row['fullname'] . '</p>';
        echo '<p>City: ' . $row['city'] . '</p>';
        echo '</div>';
        $count++;
    }
}
?>
```

LOGIN

Lets the user login into the Personal Information System through authentication. Checks whether provided username and password match the one in the database. If it doesnt match, session wont start and the user cannot login.



process_login.php is loaded here

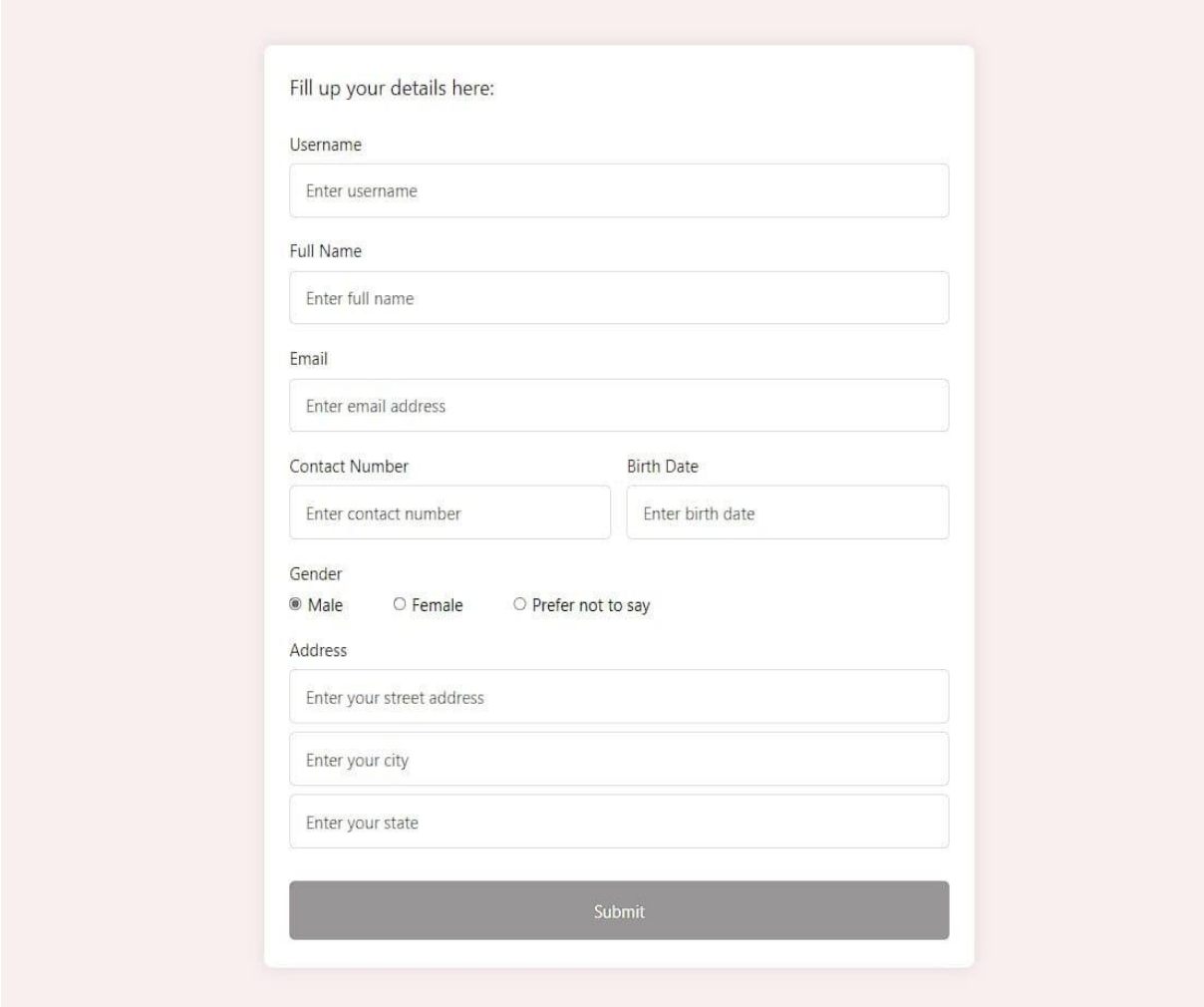
//‘process_login.php’:

```
<?php
$conn = new mysqli("localhost", "root", "", "personal_information");
if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
}

$username = $_POST['username'];
$password = $_POST['password'];
$checkQuery = "SELECT * FROM login WHERE username='$username'";
$checkResult = $conn->query($checkQuery);
 if ($checkResult->num_rows > 0) {
   header("Location: form_page.html");
} else {
   $insertQuery = "INSERT INTO login (username, password) VALUES ('$username',
'$password')";
   $conn->query($insertQuery);
   header("Location: form_page.html");
}
$conn->close();
?>
```

FORM

In the quest to establish a comprehensive system for collecting and managing user information, a critical component of this project is the process_form.php webpage. This webpage acts as the intermediary between the user and the database, facilitating the submission and storage of essential information. The user details, including username, fullname, email, birthdate, gender, contact number, street address, city, and state, are stored

in the details table within the personal_information database. The process_form.php webpage serves as the endpoint for user data submission. It captures the user inputs through a form and ensures that the information is securely processed and stored in the database.



process_form.php is loaded her

//‘process_form.php’:

```
<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "personal_information";

$conn = new mysqli($servername, $username, $password, $dbname);
```

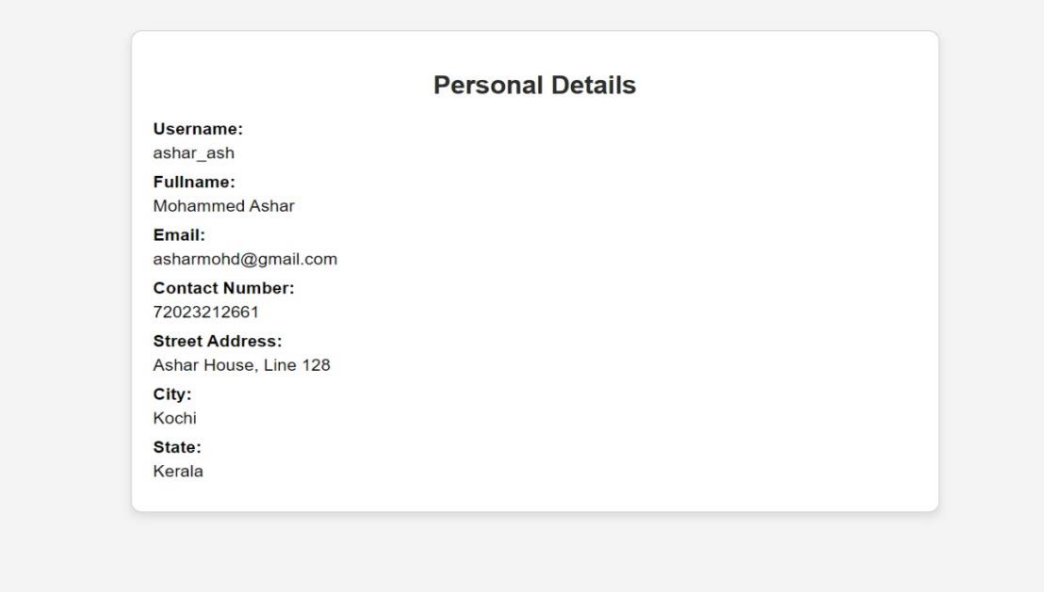
```
if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);  }
$username = $_POST['username'];
$fullname = $_POST['fullname'];
$email = $_POST['email'];
$contactnumber = $_POST['contactnumber'];
$birthdate = $_POST['birthdate'];
$gender = $_POST['gender'];
$streetaddress = $_POST['streetaddress'];
$city = $_POST['city'];
$state = $_POST['state'];
$sql = "INSERT INTO details (username, fullname, email, contactnumber, birthdate, gender, streetaddress, city, state)
     VALUES ('$username', '$fullname', '$email', '$contactnumber', '$birthdate', '$gender', '$streetaddress', '$city', '$state')";
if ($conn->query($sql) === TRUE) {
   header("Location: home_page.php");
   exit();
} else { echo "Error: " . $sql . "<br>" . $conn->error;  }
$conn->close();
?>
```

VIEW DETAILS

The details_page.php serves as a detailed profile view, offering users a more in-depth look at specific individuals. Accessible through a brief details link on the home_page, this webpage extracts a wealth of information from the details table in the personal_information database. The primary key, which is the username, plays a pivotal role in pinpointing the precise individual in question.

Upon redirection, users can explore a variety of personal details, including the individual's full name, email address, contact number, birthdate, gender, street address, city, and state. This comprehensive display provides a holistic overview of the user's background and contact

information, enhancing the user experience and facilitating efficient information retrieval. The utilization of a primary key ensures a streamlined and accurate identification process, linking users to their corresponding details within the database.



Details of the user is shown in 'Personal Details' section

//'details_page.php':

```
<?php
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "personal_information";

    $conn = new mysqli($servername, $username, $password, $dbname);
```

```
    if ($conn->connect_error) {
       die("Connection failed: " . $conn->connect_error);
    }
        if (isset($_GET['username'])) {
       $username = $_GET['username'];
       $sql = "SELECT * FROM details WHERE username = '$username'";
       $result = $conn->query($sql);

       if ($result->num_rows > 0) {
          $row = $result->fetch_assoc();
          echo '<h2>Personal Details</h2>';
          echo '<div class="user-details">';
          echo '<div class="detail"><label>Username:</label> <p>' . $row['username'] .
'</p></div>';
          echo '<div class="detail"><label>Fullname:</label> <p>' . $row['fullname'] .
'</p></div>';
          echo '<div class="detail"><label>Email:</label> <p>' . $row['email'] . '</p></div>';
          echo '<div class="detail"><label>Contact Number:</label> <p>' .
$row['contactnumber'] . '</p></div>';
          echo '<div class="detail"><label>Street Address:</label> <p>' .
$row['streetaddress'] . '</p></div>';
          echo '<div class="detail"><label>City:</label> <p>' . $row['city'] . '</p></div>';
          echo '<div class="detail"><label>State:</label> <p>' . $row['state'] . ''</p></div>';
          echo '</div>';
       } else {
          echo "<p>User details not found for the username: $username</p>";  }
    } else {
       echo "<p>Username parameter not provided</p>";  }
 $conn->close();?>
```

Conclusion

In conclusion, the Personal Information System excels in efficiently managing and retrieving individual details through a user-friendly interface. The home page succinctly displays key information, and users can dive deeper into comprehensive profiles on the details page. The system emphasizes security with user authentication, ensuring only authorized access and enhancing the integrity of stored personal information. Striking a balance between simplicity and robust privacy measures, this platform provides a reliable solution for entering, storing, and accessing individual details, contributing to a seamless and secure user experience.