# **TASK - 1)**

#### **Apache server for Windows:**

Follow the URL: https://httpd.apache.org/docs/2.4/platform/windows.html

Open Apache Lounge option and download Apache 2.4.51 Win64 zip file for Windows 64 Bit version.

Unzip the downloaded zip file and copy it in the C: Drive and add Path Variable.

#### **PHP for Windows:**

Follow the URL: <a href="https://www.php.net/">https://www.php.net/</a>

Go to Downloads and select 'windows downloads'

Download the zip file from **VS16 x64 Thread Safe** version for Apache.

Unzip the downloaded zip file and copy it in the C: Drive and add Path Variable.

#### **Configuring the Apache and PHP:**

Open the Apache folder and go to 'conf' folder and open 'httpd.conf' file.

```
LoadModule php_module "C:\php-8.0.12\php8apache2_4.dll"
AddType application/x-httpd-php .php
PHPIniDir "C:\php-8.0.12"
LoadFile "C:\php-8.0.12\php8ts.dll"
ServerName localhost
```

Add the following lines in the 'httpd.conf' file and save it.

Now we are all set to run php files in Apache server.

### Versions installed in my computer:

```
C:\Windows\system32>HTTPD -v

Server version: Apache/2.4.51 (Win64)

Apache Lounge VS16 Server built: Oct 7 2021 16:27:02

C:\Windows\system32>PHP -v

PHP 8.0.12 (cli) (built: Oct 19 2021 11:21:05) ( ZTS Visual C++ 2019 x64 )

Copyright (c) The PHP Group

Zend Engine v4.0.12, Copyright (c) Zend Technologies

C:\Windows\system32>MySQL -V

MySQL Ver 8.0.26 for Win64 on x86_64 (MySQL Community Server - GPL)

C:\Windows\system32>
```

# TASK - 2)

### **MySQL Steps:**

Login to the MySQL as 'root' user.

```
C:\Users\Acer>mysql -u root -p
Enter password: **********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 1604
Server version: 8.0.26 MySQL Community Server - GPL
```

Creating an 'employee' database.

Grant all privileges to the user 'scot'.

Creating the table 'emp' in 'employee' database with the given attributes.

Inserting some relevant values into the 'emp' table.

```
Select Command Prompt - mysgl -u root -p
mysql> CREATE DATABASE employee;
Query OK, 1 row affected (0.14 sec)
mysql> USE employee;
Database changed
mysql> GRANT ALL PRIVILEGES ON employee.* TO 'scot'@'localhost';
Query OK, 0 rows affected (0.20 sec)
mysql> CREATE TABLE emp(
-> empID varchar(10) primary key,
       -> passwd varchar(255),
       -> empName varchar(20),
      -> DoJ date,
      -> salary int,
-> department varchar(20),
      -> department varietial(
-> mobileNo bigint,
-> email varchar(30));
Query OK, 0 rows affected (0.58 sec)
mysql> INSERT INTO emp VALUES
mysql> SELECT * FROM emp;
              | passwd | empName | DoJ
                                                                           | salary | department | mobileNo | email

      2014CS28
      123456
      Raghav
      2014-06-13
      125000
      CS

      2015PH12
      secret
      Rajesh
      2015-03-24
      170000
      PH

      2016ME01
      password
      Mahesh
      2016-01-18
      200000
      ME

      2019CE02
      vikram@30
      Vikram
      2019-05-28
      250000
      CE

      2020EE36
      LetMeIn
      Prakash
      2020-08-01
      150000
      EE

                                                                                                               | 9027378124 |
| 8381371843 |
| 8998281325 |
| 9313013825 |
| 9189298203 |
                                                                                                                                        Raghav@gmail.com
                                                                                                                                        Rajesh@gmail.com
Mahesh@iitp.ac.in
                                                                                                                                        Vikram@yahoo.com
                                                                                                                                        Prakash@iitp.ac.in
   rows in set (0.00 sec)
mysql> _
```

Starting the **Apache server** using the below command.

```
C:\Windows\system32>HTTPD -k START
C:\Windows\system32>
```

Connecting the employee Database to Apache server:

```
<?php

define('DB_SERVER', 'localhost');

define('DB_USERNAME', 'scot');

define('DB_PASSWORD', 'tiger');

define('DB_DATABASE', 'employee');

$db = mysqli_connect(DB_SERVER, DB_USERNAME, DB_PASSWORD, DB_DATABASE) or die(mysqli_connect_error());

?>
```

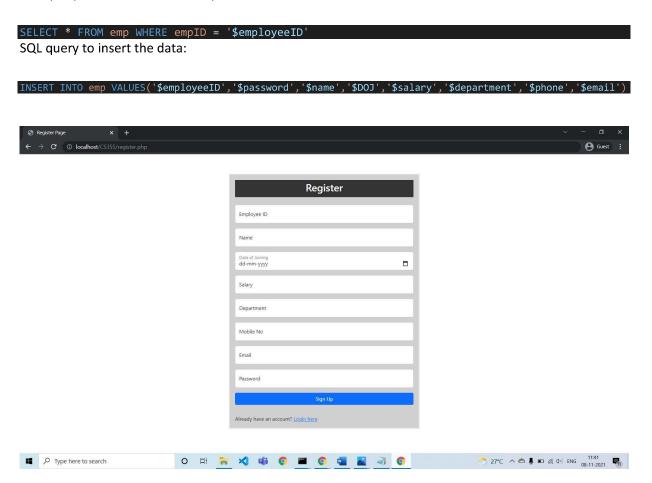
### **Registration Page:**

**Description:** Allows the user to create a new account.

Working: User fills the data in the respective cells in register form and clicks the 'Sign Up' button.

**Design Details:** The input cells here describe the content to be filled in each cell. These input fields are of several types such as 'text', 'date', 'tel', 'email' and 'password'. The data in this form is requested through "POST" method. I used HTML code and Bootstrap classes to design this 'Register' page. The input data is sanitized before running the SQL Query to prevent SQL Injection in the PHP code.

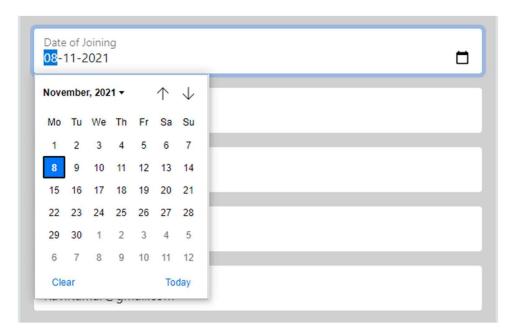
SQL query to check if user already exists:



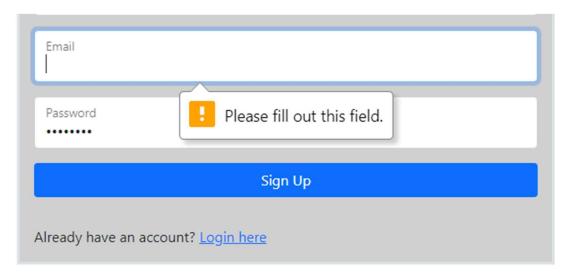
These input cells are of floating type, meaning that the description of the cell gets minimized and floats on top of the cell while the user fills the data in the cell as shown below.



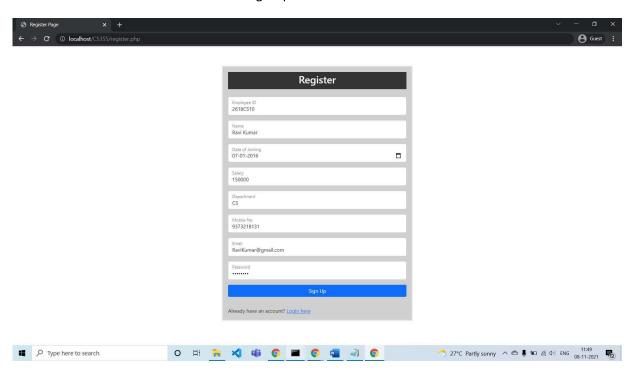
Date section has a calendar included, so the user can choose the date instead of manual filling.



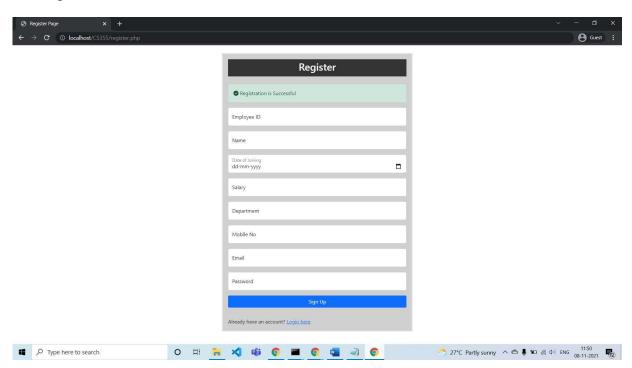
All the input cells in Register form are set to "required", meaning, the user cannot Sign Up without filling all the sections. A notification pops up asking the user to fill the empty cell.



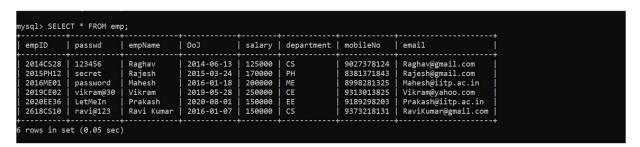
User has filled all the fields and clicked "Sign Up" button.



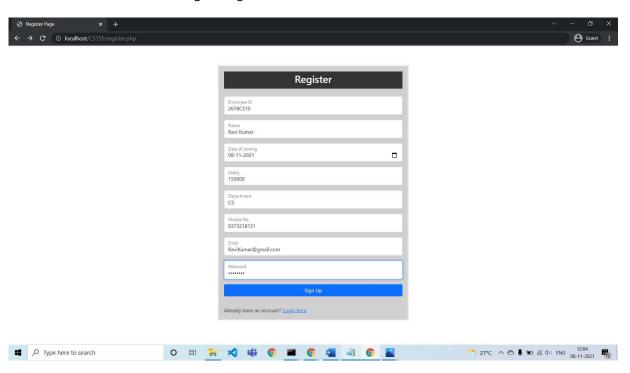
Upon successful registration, user gets a notification showing "Registration is Successful" as shown in the image below.



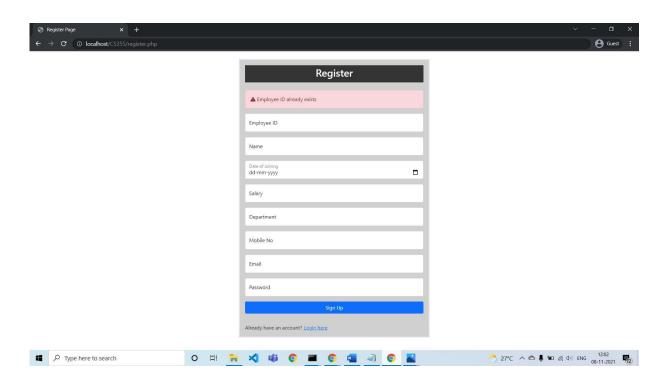
We can see that the user data gets stored in the Database on successful registration.



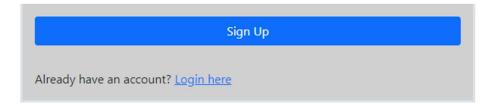
Now if the same user tried to register again one more time....



We check if the Employee ID exists in our database. If the given Employee ID is present in our database table, the registration form displays a notification showing that the 'Employee ID' already exists, as shown in below image, meaning that the user is already having an account in our database. So that we don't let that user register again.



Under the registration form we have an option to "Login" if the user already have registered. If the user clicks on the 'Login here', they will be redirected to the Login Page.



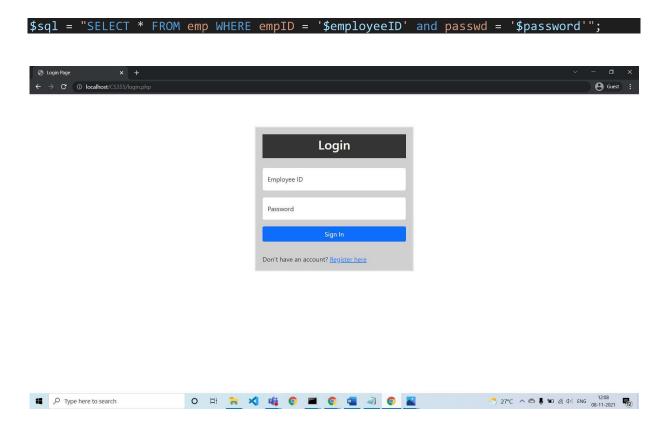
### **Login Page:**

**Description:** Allows the user to login into an account taking 'Employee ID' and 'Password' credentials.

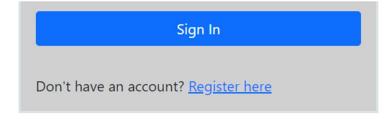
Working: User provides the login credentials and clicks the 'Sign In' button.

**Design Details:** The input cells here describe the content to be filled in each cell. The data in this form is requested through "POST" method. I used HTML code and Bootstrap classes to design this 'Login' page. The user input data is sanitized in the PHP code before running the SQL command to prevent SQL Injection. A session is started when a user login.

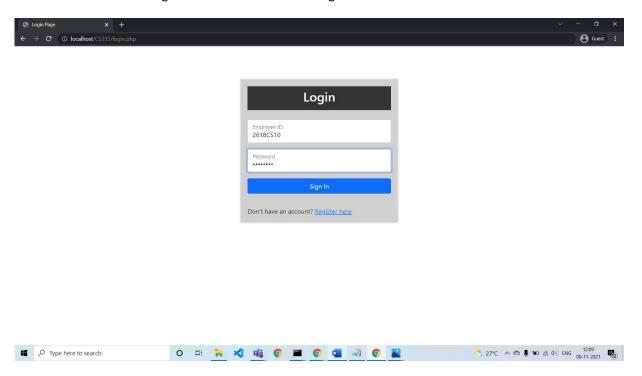
We check if given 'Employee ID and Password' combination exists in our database through SQL Query.



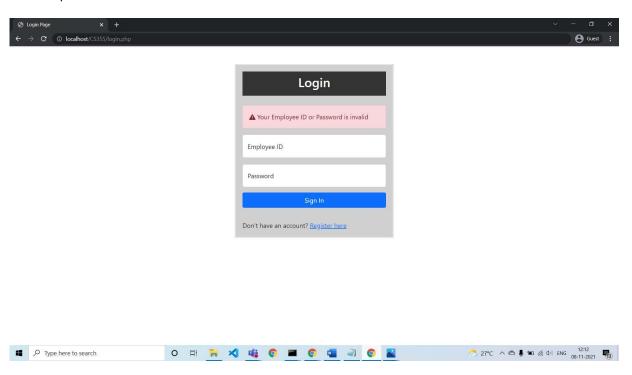
In case the user does not have an account to login, he can click on the 'Register here' link as shown below, so that he will be redirected to the Registration Page.



Now the user filled the login details and clicked the 'Sign In' button.



If the user provided the wrong credentials, a notification message is displayed using 'alert class' in Bootstrap as shown below.



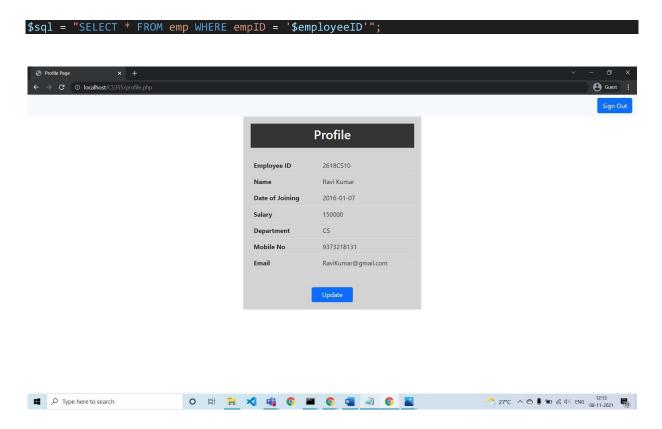
If the user provided the correct details in the login page, they will be redirected to their Profile page.

## **Profile Page:**

**Description:** Shows the respective user details saved in the database.

**Working:** If the user wants to update his details, they can click on the 'Update' button. If the user wants to logout, they can click on the 'Sign Out' button.

**Design Details:** The Profile displays the details of the user, provided at the time of Registration. I used HTML code and Bootstrap classes to display the Employee details as a table. A button is created below the Profile table with the hyperlink referring to Update Page and another button to Sign Out page. The Sign Out button is displayed on top using the 'nav class' in Bootstrap. We extract the inform of the user from database using SQL query.



If the user clicks on the 'Update' button, they will be redirected to the 'Update Page'.

## **Update Page:**

**Description:** Allows the user to update the phone number and Email.

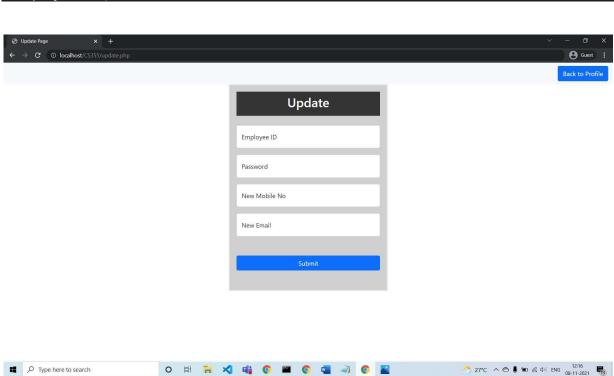
**Working:** User has to provide the correct 'Employee ID' and 'Password' in order to update the contact details.

**Design Details:** The input cells describe the content needs to be filled in the Update form. It has a 'Back to Profile' button in the navigation bar.

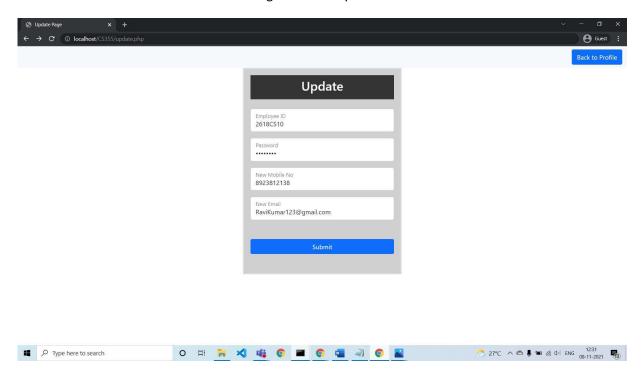
To check if the user credentials are correct, we run a SQL query.

\$sql = "SELECT \* FROM emp WHERE empID = '\$employeeID' and passwd = '\$password'";
To update the new Mobile No and Email in the database, we use the update SQL query.

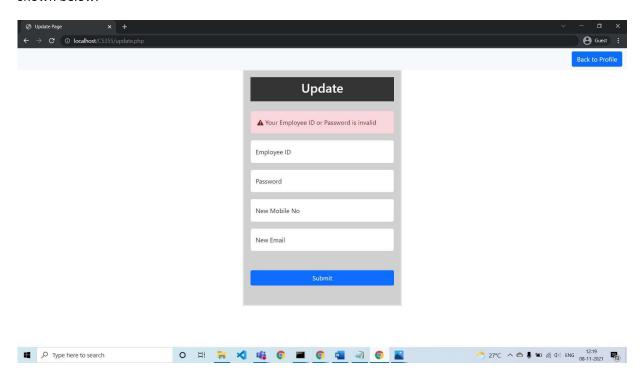




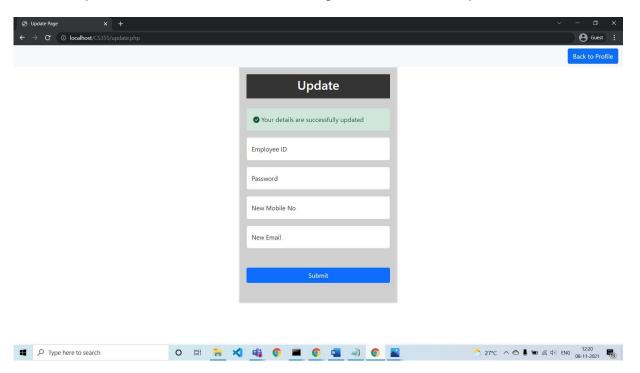
Now the user has filled his credentials and gave his new phone number and Email.



If the 'Employee ID' or 'Password' provided by the user are incorrect, the new Phone number and Email will not getting updated in the database and a notification message displays on the Update page as shown below.



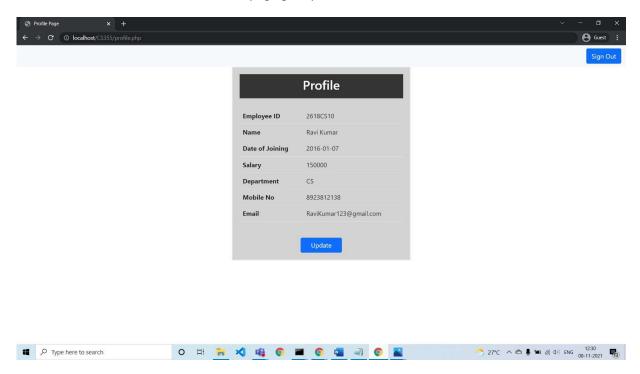
In case the user provided the correct credentials to update, they will get a notification showing that the details are updated as shown below. This is done using 'alert-class' in Bootstrap.



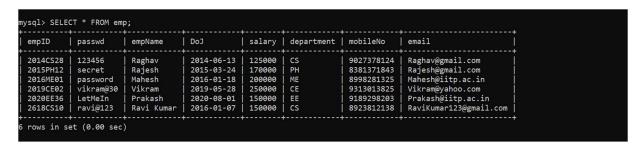
On top of the Update Page we have a button, which will redirect the user back to his Profile. The user after updating their details can go back to his profile by clicking on the 'Back to Profile' button.



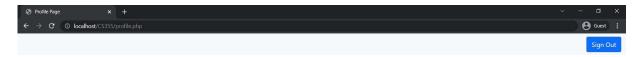
See that the user's details on his Profile page got updated.



Even in the database, these changes are reflected.



The user can logout from his profile page by clicking the 'Sign Out' button provided on top right of the 'Profile Page'



When the user logout from the profile page, the session gets destroyed and the user will be redirected to the 'Login Page'.

```
<?php
   session_start();

if(session_destroy()) {
    header("Location: login.php");
  }
?>
```

