

DATABASE PROJECT REPORT: ”Learning Management System”

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INTRODUCTION:

Background and Intruoduction

Goal

Description

Learning Management System is a Web-based system for training programs and information sharing between individuals giving them the flexibility to access it from their workplace or home. Authorized individuals have 24/7 access to this unique system through a unique User ID and Password.

Due to certain properties LMS is can be very effective for Students like:-

1:Students can get access to study materials from anywhere and at any time. ...

2:All study materials are consolidated in one location. ...

3:Increased communication.

4:Students can collaborate on different tasks. ...

5:Time saving.

The **Goal** of the project was to develop a module with full functionality through which students teachers and staff can communicate for study purposes i,e; Learning Management System.

The 3 main entities are:

1:Admin

2:Students

3:Teachers

Admin has following functionalities:

1:Register student,course,teacher.

2:Remove student,course,teacher

3:enroll student in course

4:Assign teacher course

5:Update teacher,student or department details

WHILE

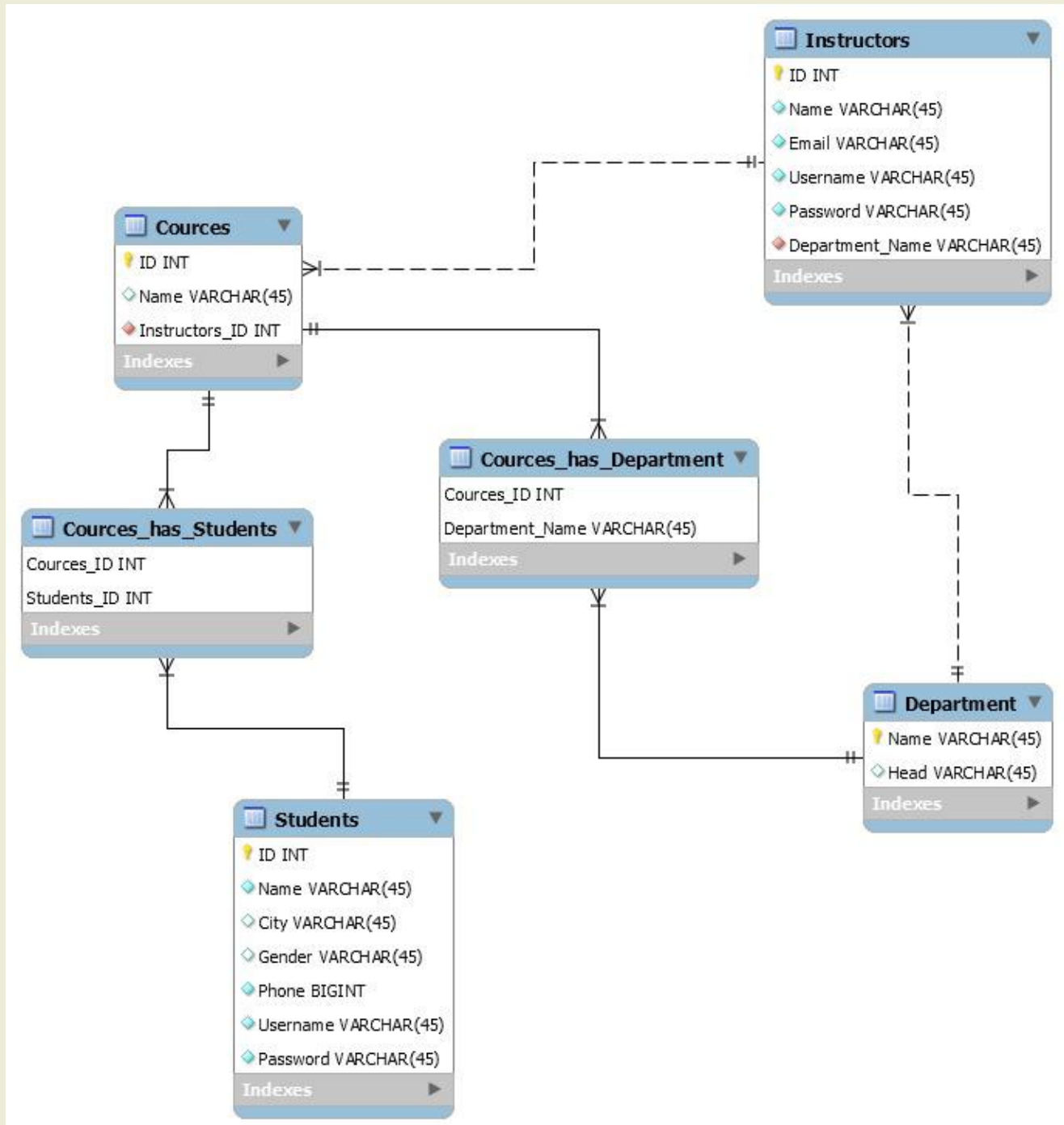
Teachers and students can enter by giving username and passwords assigned to them.

Students can see their personal details ,courses in which they are enrolled(along with instructor information) and their department details.

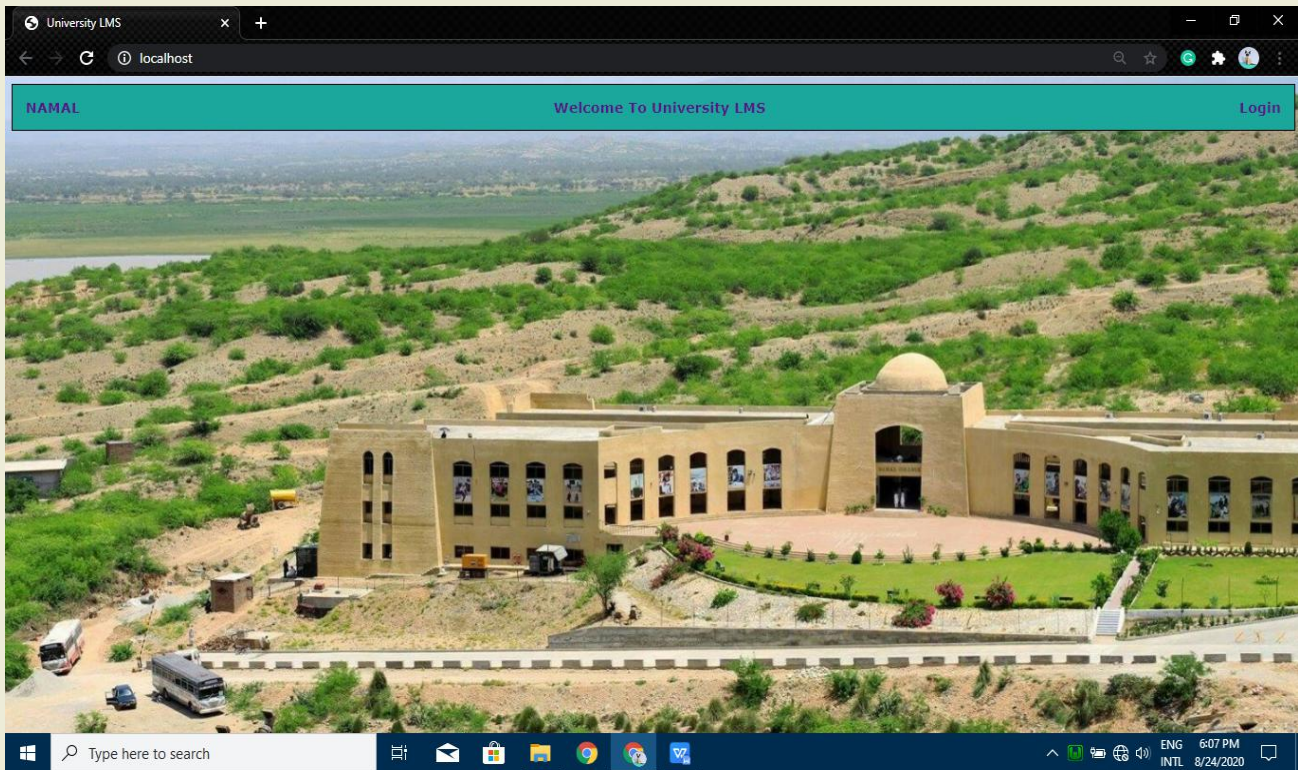
Teachers can also see their personal details ,courses which they are teaching and their department details as well.

02

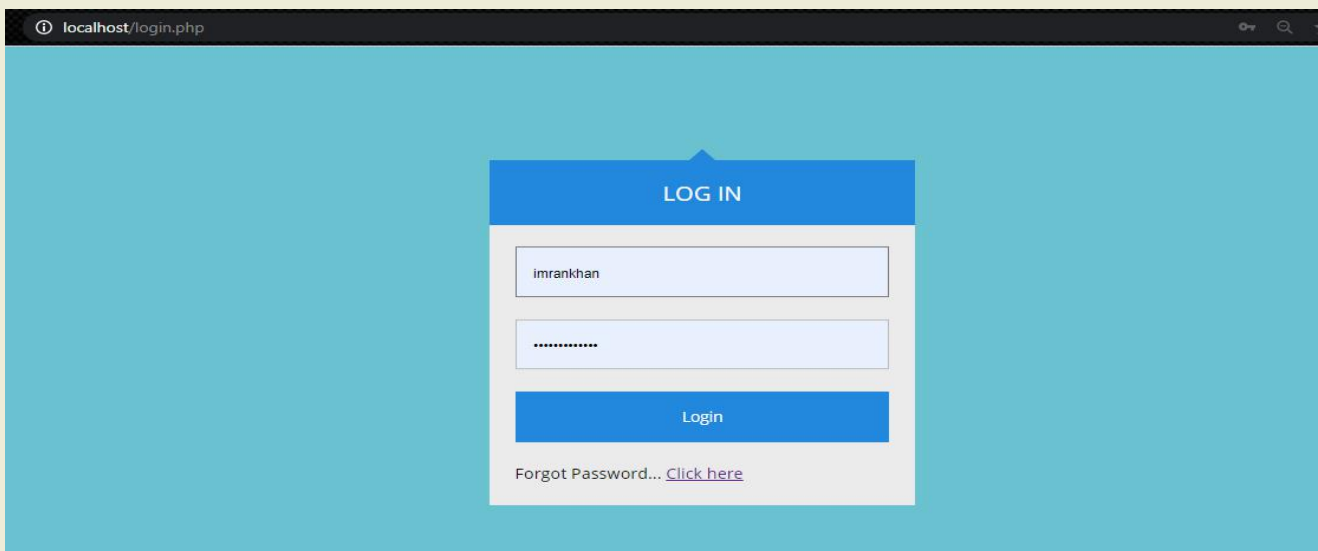
Entity Relationship Diagram:



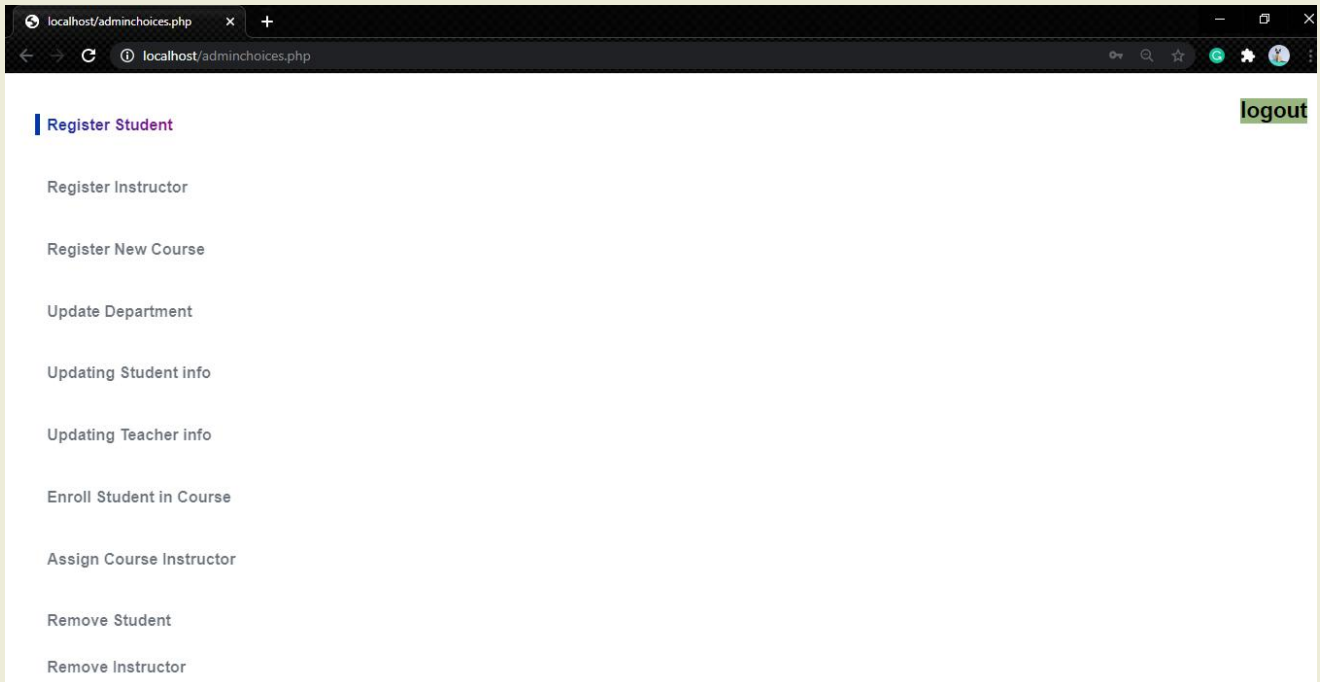
:: ERD for Lms.



::The front page which any one can visit.



::login page where any user(Teacher/student/admin) can login. This page assures safe login with certain constraints and displays the accurate message for failed login or any other problem. Any user can change his password also by forgot password option. If any user is not registered then this page shows him message that he is not registered yet.



::After login these options are provided to admin.After doing any operation he can logout as well.

::Student Registration operation for Admin,where he can register student,after which certain message is displayed for him.if any form is submitted successfully,then he can go back to Admin portal.

****Student Info updation Form****

StudentID:

contact#:

City:

Address:

Department:

Username:

password:

INSTRUCTIONS

1. You cannot change id.
2. Please Enter the updated value else give previous one .

::Student updation form allows some fields to update.As admin cannot change id which is given once while registering.

****Instructor Info updation Form****

Instructor ID:

Education

Department:

Username:

password:

INSTRUCTIONS

1. Enter Original ID.You cannot change ID.
2. Please Enter the updated value else give previous one .

::Admin has choice to update instructor details by using id.

****Subject Enrollment Form****

Student ID:

Course ID:

::Admin can register any student in any course(with certain condition).

****Course Assignment Form****

Instructor ID:

Course ID:

::In the same way admin can assign any course to teacher as well.

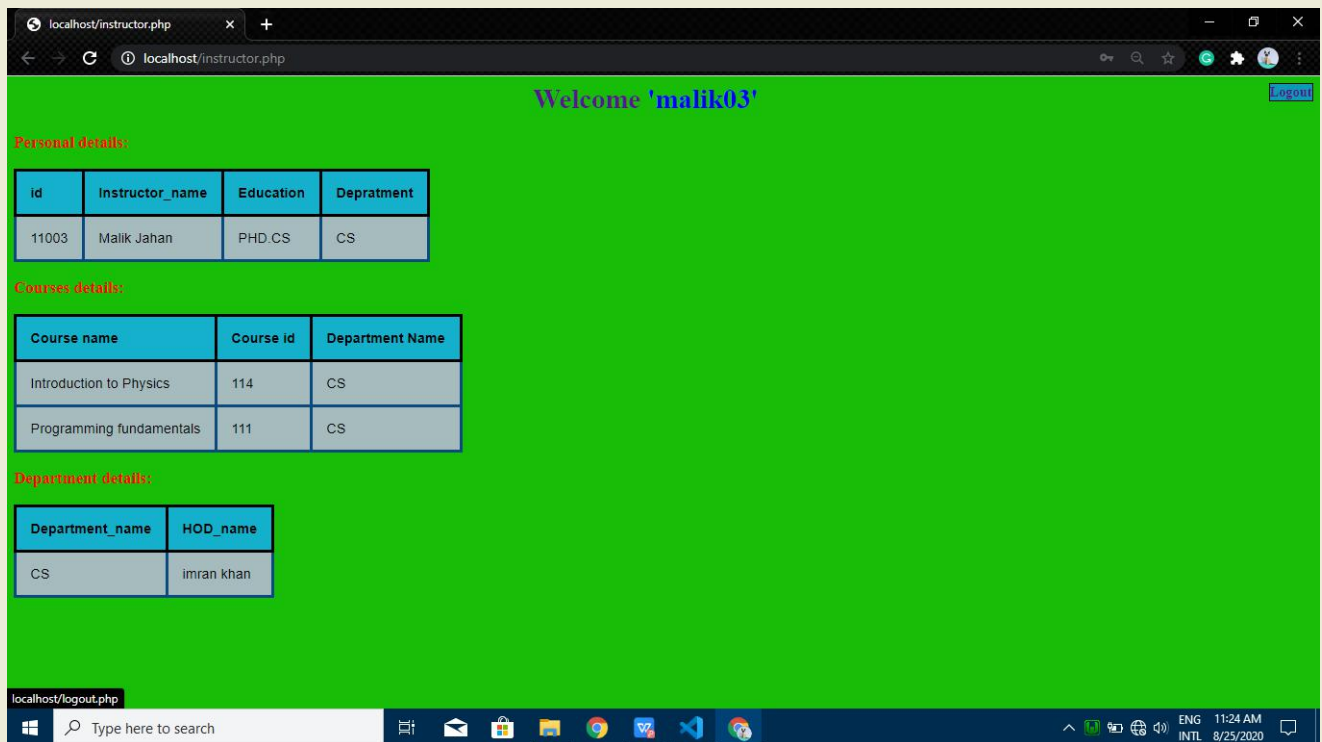
****Student Removal Form****

Student ID:

****Instructor Removal Form****

Instructor ID:

::Admin can remove teacher/student as well by using id. The deletion process ensures referential integrity also.



::When an instructors logins he/she is provided with his all details(personal/courses/departments).if instructor is not teaching any course then courses details table is not shown.Logout option is also available.

localhost/student.php

Welcome 'noman202012' [Logout](#)

Personal details:

id	Student_name	City	Gender	Contact#:	Address	Depratment
202012	Noman Shehzad	Islambad	Male	342	Islamabad	CS

Courses details:

Course name	Course id	Department Name
Introduction To Computing	112	CS
Calculus	113	CS
Introduction to Physics	114	CS

Department details:

Department_name	HOD_name
CS	imran khan

localhost/logout.php

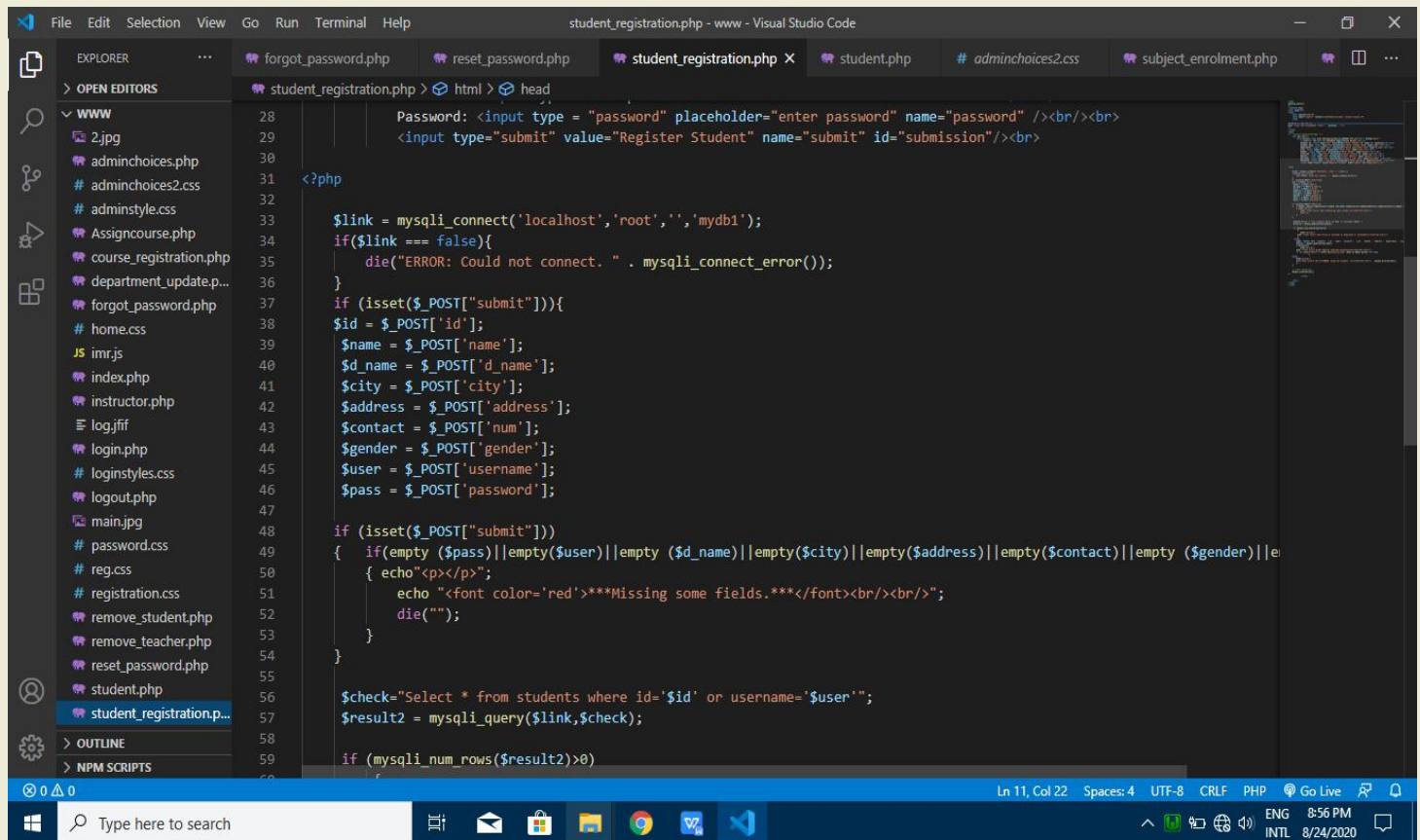
Type here to search

ENG 11:24 AM
INTL 8/25/2020

::When student logs in he sees this interface showing his all details.

NOTE:

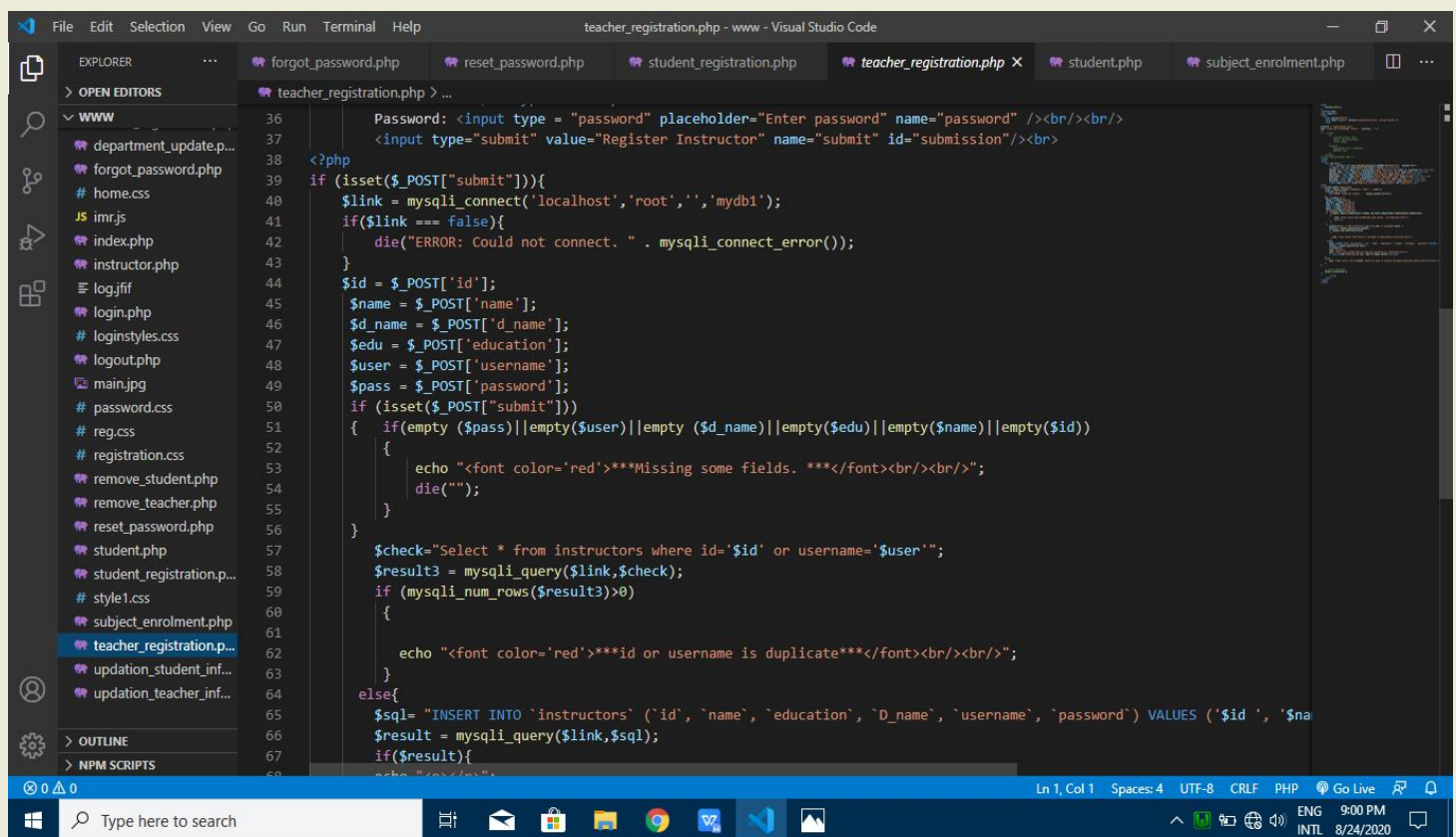
While using any form the system ensures that all corner cases are satisfied, like if any student is registered in any subject then the system won't allow admin to register the student in that subject again.



```
File Edit Selection View Go Run Terminal Help
student_registration.php - www - Visual Studio Code

EXPLORER
> OPEN EDITORS
  student_registration.php > html > head
  WWW
  2.jpg
  adminchoices.php
  # adminchoices2.css
  # adminstyle.css
  Assigncourse.php
  course_registration.php
  department_update.p...
  forgot_password.php
  # home.css
  JS imr.js
  index.php
  instructor.php
  logjiff
  login.php
  # loginstyles.css
  logout.php
  main.jpg
  # password.css
  # reg.css
  # registration.css
  remove_student.php
  remove_teacher.php
  reset_password.php
  student.php
  student_registration.p...
  > OUTLINE
  > NPM SCRIPTS

28 Password: <input type = "password" placeholder="enter password" name="password" /><br/><br/>
29 <input type="submit" value="Register Student" name="submit" id="submission"/><br/>
30
31 <?php
32
33 $link = mysqli_connect('localhost','root','','mydb1');
34 if($link === false){
35     die("ERROR: Could not connect. " . mysqli_connect_error());
36 }
37 if (isset($_POST["submit"])){
38     $id = $_POST['id'];
39     $name = $_POST['name'];
40     $d_name = $_POST['d_name'];
41     $city = $_POST['city'];
42     $address = $_POST['address'];
43     $contact = $_POST['num'];
44     $gender = $_POST['gender'];
45     $user = $_POST['username'];
46     $pass = $_POST['password'];
47
48 if (isset($_POST["submit"]))
49 {
50     if(empty($pass)||empty($user)||empty($d_name)||empty($city)||empty($address)||empty($contact)||empty($gender)||empty($address))
51     {
52         echo "<p><p>";
53         echo "<font color='red'>***Missing some fields.***</font><br/><br/>";
54         die("");
55     }
56
57 $check="Select * from students where id='$id' or username='$user'";
58 $result2 = mysqli_query($link,$check);
59
60 if (mysqli_num_rows($result2)>0)
```



```
File Edit Selection View Go Run Terminal Help
teacher_registration.php - www - Visual Studio Code

EXPLORER
  forgot_password.php
  reset_password.php
  student_registration.php
  teacher_registration.php X
  student.php
  subject_enrolment.php

  > OPEN EDITORS
  teacher_registration.php > ...
  department_update.p...
  forgot_password.php
  # home.css
  JS imr.js
  index.php
  instructor.php
  logjiff
  login.php
  # loginstyles.css
  logout.php
  main.jpg
  # password.css
  # reg.css
  # registration.css
  remove_student.php
  remove_teacher.php
  reset_password.php
  student.php
  student_registration.p...
  # style1.css
  subject_enrolment.php
  teacher_registration.p...
  update_student_inf...
  update_teacher_inf...

  > OUTLINE
  > NPM SCRIPTS

36 Password: <input type = "password" placeholder="Enter password" name="password" /><br/><br/>
37 <input type="submit" value="Register Instructor" name="submit" id="submission"/><br/>
38
39 <?php
40 if (isset($_POST["submit"])){
41     $link = mysqli_connect('localhost','root','','mydb1');
42     if($link === false){
43         die("ERROR: Could not connect. " . mysqli_connect_error());
44     }
45     $id = $_POST['id'];
46     $name = $_POST['name'];
47     $d_name = $_POST['d_name'];
48     $edu = $_POST['education'];
49     $user = $_POST['username'];
50     $pass = $_POST['password'];
51     if (isset($_POST["submit"]))
52     {
53         if(empty($pass)||empty($user)||empty($d_name)||empty($edu)||empty($name)||empty($id))
54         {
55             echo "<font color='red'>***Missing some fields. ***</font><br/><br/>";
56             die("");
57         }
58
59 $check="Select * from instructors where id='$id' or username='$user'";
60 $result3 = mysqli_query($link,$check);
61 if (mysqli_num_rows($result3)>0)
62 {
63     echo "<font color='red'>***id or username is duplicate***</font><br/><br/>";
64 }
65 else{
66     $sql= "INSERT INTO `instructors` (`id`, `name`, `education`, `D_name`, `username`, `password`) VALUES ('$id ', '$na";
67     $result = mysqli_query($link,$sql);
68     if($result){
69         echo "<font color='green'>***Registration Successful***</font><br/><br/>";
70     }
71 }
```

:: Some coding snippets.

04 : SUMMARY

The Learning Management System Project facilitates the users especially students ,admin and teachers to various purposes including registering/removing any teacher or student and in deletion and updation processes also.

The project contain Introduction to LMS.LMS has made the process of managing records for administartive porposes so easy and it is very helpful in study for students. This project contain Erd also for LMS based on relations of entities .