



PUNE INSTITUTE OF COMPUTER TECHNOLOGY
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DBMSL Project Report

on

PLACEMENT RECORD MANAGEMENT SYSTEM

BATCH : N3

GROUP MEMBERS :

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Aim:

The aim of the project is to create a unique web-based Placement Record Management System through which students and faculty can retrieve placement information easily and quickly. The web-based platform also ensures easy maintenance and tracking of traffic which can be used by college placement authorities for their analysis.

Hardware Requirements:

- Processor – i5 ,64-bit
- 8GB RAM
- 1 TB HDD

Software Requirements:

- Node.js
- Express.js
- MySQL
- HTML
- CSS
- JavaScript
- Bootstrap
- Chart.js

Description:

The “Placement Record Management System” is a database application project for storing and retrieving the information of students, companies and the placements done in a college.

The database entries would be handled by the users with role of TnP and they can add student details, companies coming for placements and placement record for every student placed.

The students and teachers are only allowed to see the information in the database and are not provided the permission to write/edit the database.

The information provided by a student record include registration number, roll number, name of the student, class, CGPA, email, phone number, gender and department. The information provided by a company record include company name, type, CGPA criteria, dept criteria, contact person name, contact person’s phone number and contact person’s email. The placement record information depends upon student and company record and include registration number of a student, type of placement, company name, job role, location, placement date and salary.

The users can also search and find placement details as per various criteria on the web application.

Tables Description:

1. Student

- a. Registration No (Primary key)
- b. Roll No
- c. Name
- d. Class
- e. CGPA
- f. Email
- g. Phone No
- h. Gender
- i. Department

2. Company

- a. Company Name (Primary key)
- b. Type (Niche / Variant Recruiter)
- c. CGPA Criteria
- d. Department Criteria
- e. Contact Name
- f. Contact Phone
- g. Contact Email

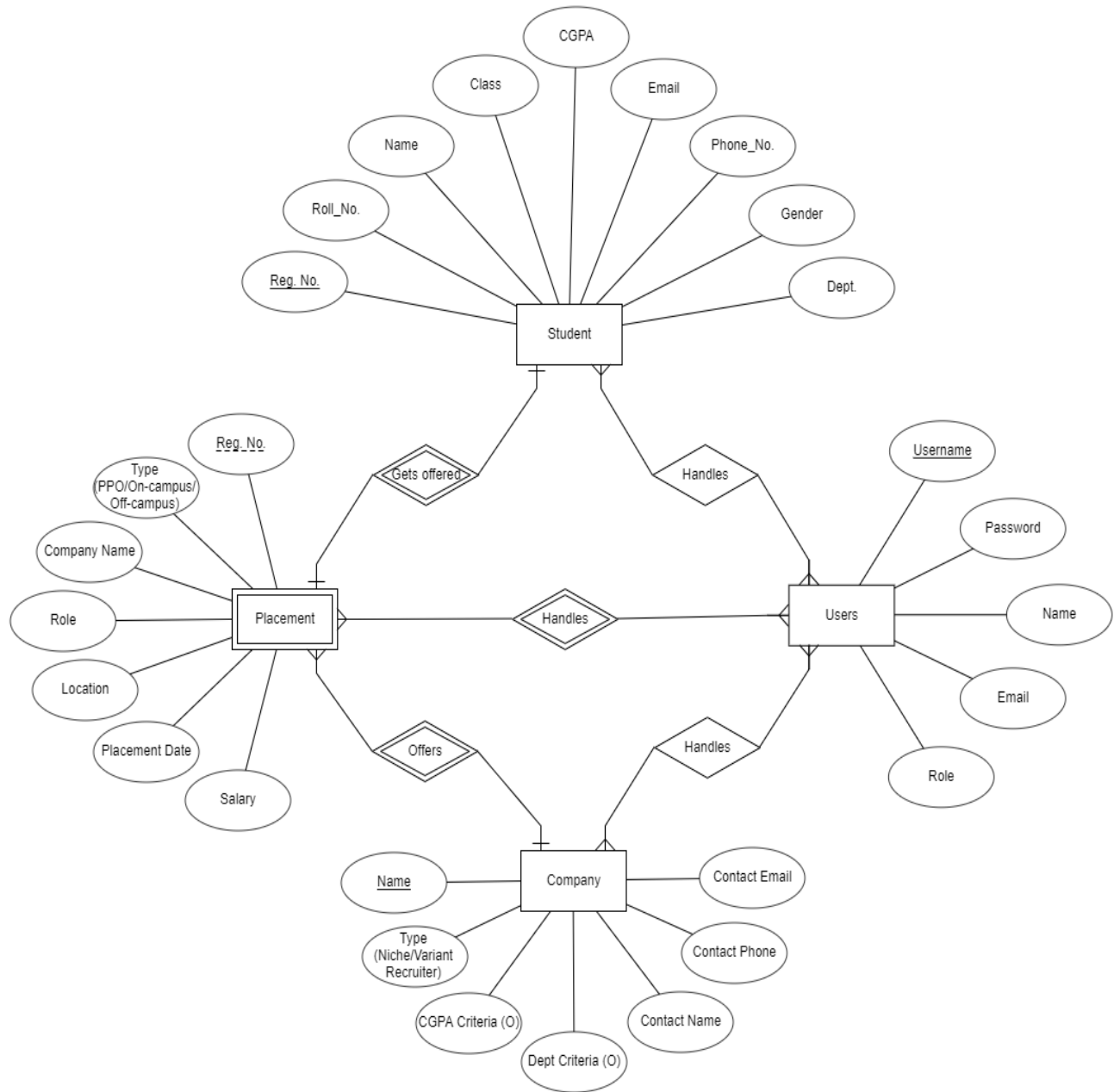
3. Placement

- a. Registration No (Partial key)
- b. Type (On-campus / Off-campus / PPO)
- c. Company Name (Foreign key)
- d. Job Role
- e. Location
- f. Placement Date
- g. Salary

4. Users

- a. Username (Primary key)
- b. Password
- c. Name
- d. Email
- e. Role (Student / Teacher / TPO)

ER Diagram (Conceptual Design using ER features):



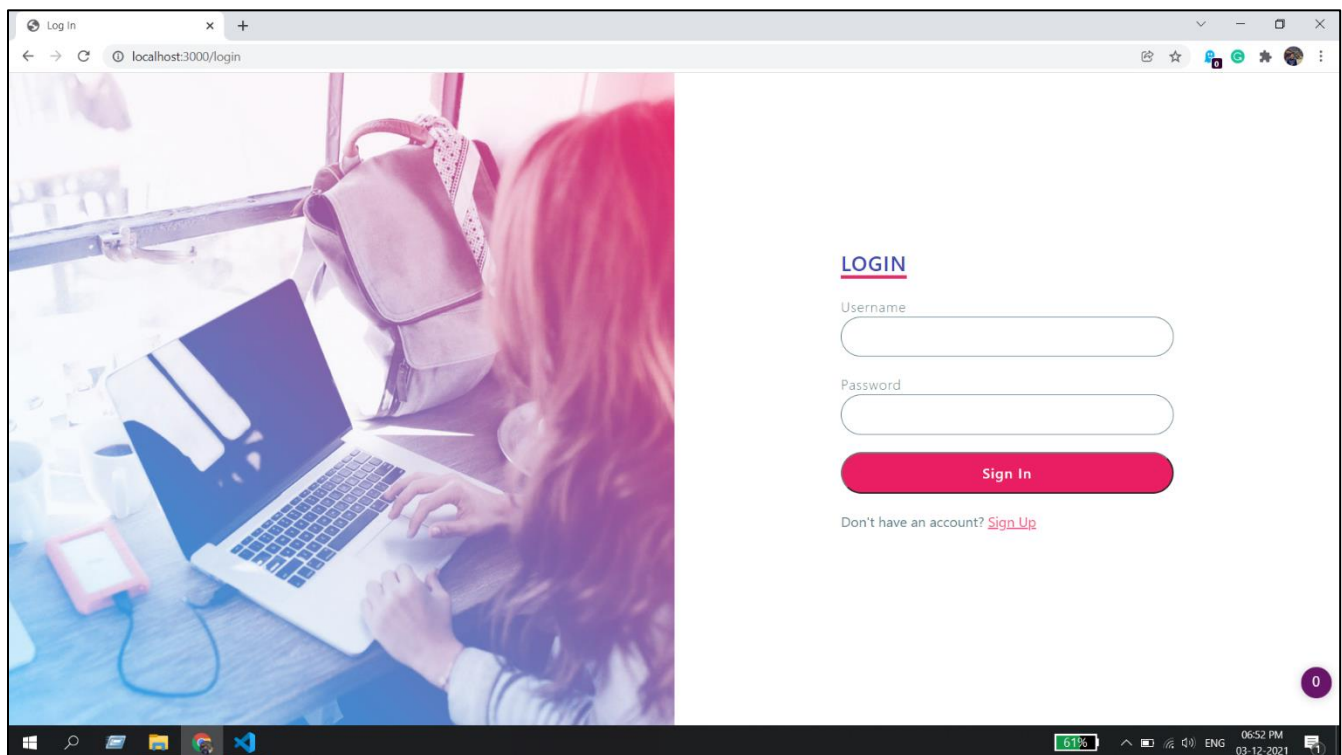
Relational Database Schema

The database schema for the system :

- student (reg_no, roll_no, name, class, cgpa, email, phone_no, gender, dept)
- company (name, type, cgpa_criteria, dept_criteria, contact_name, contact_phone, contact_email)
- placement (reg_no, type, company_name, role, location, placement_date, salary)
- users (username, password, name, email, role)

Graphical User Interface

Login Page:



Sign Up Page :

Sign Up

localhost:3000/signup

SIGNUP

Name

Email

Username

Password

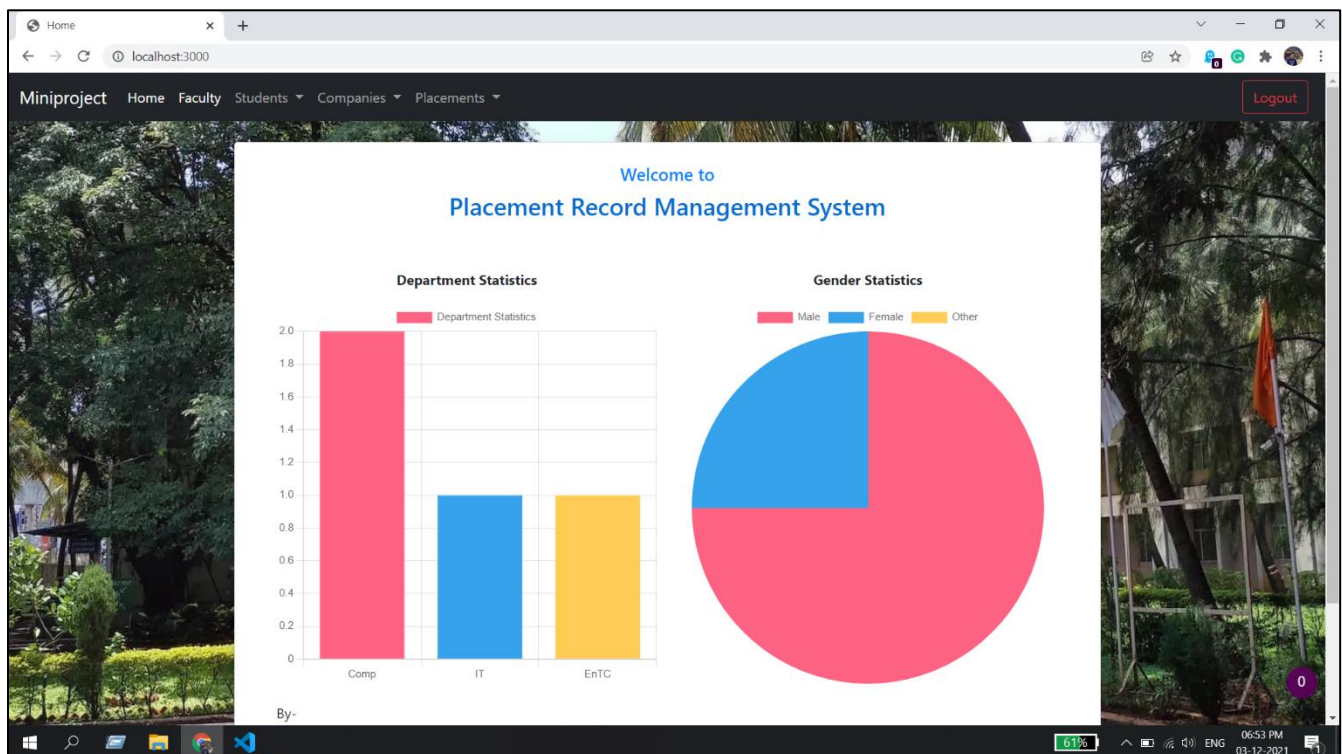
Role

Access Key

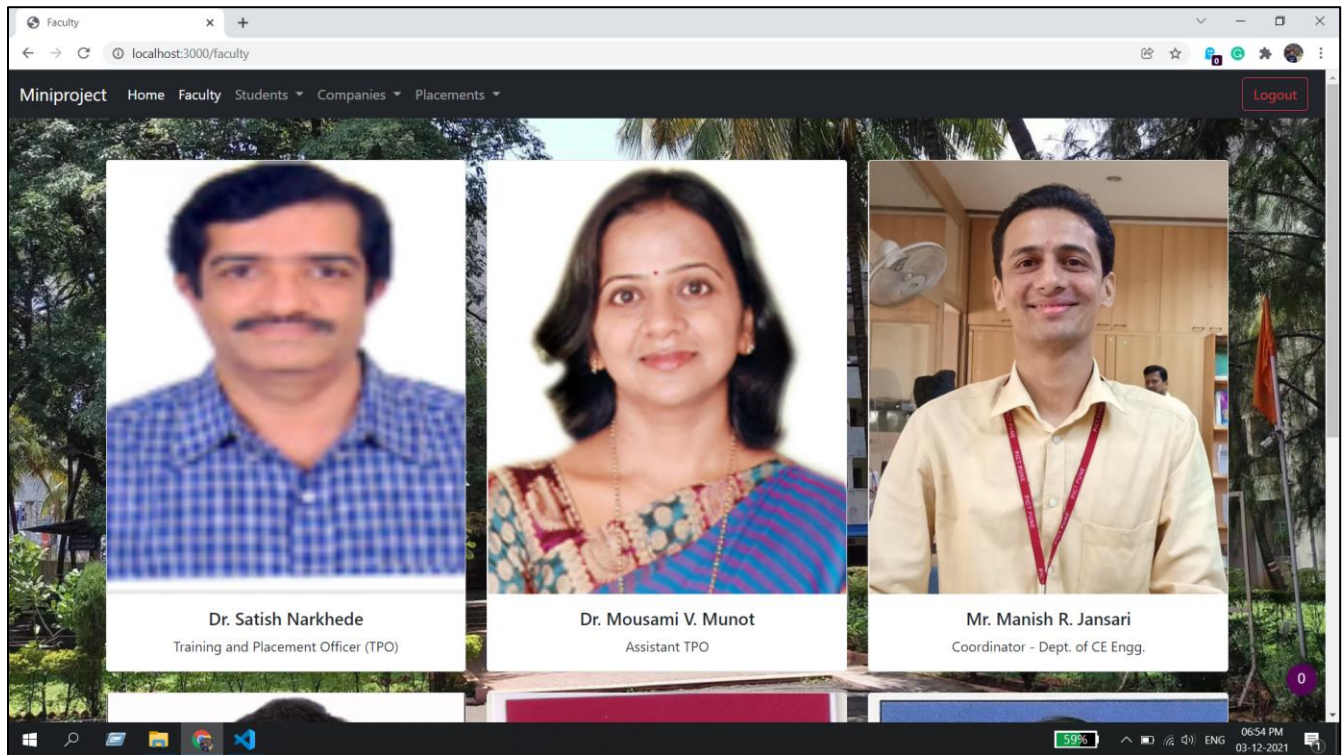
[Sign Up](#)

Already have an account? [Log In](#)

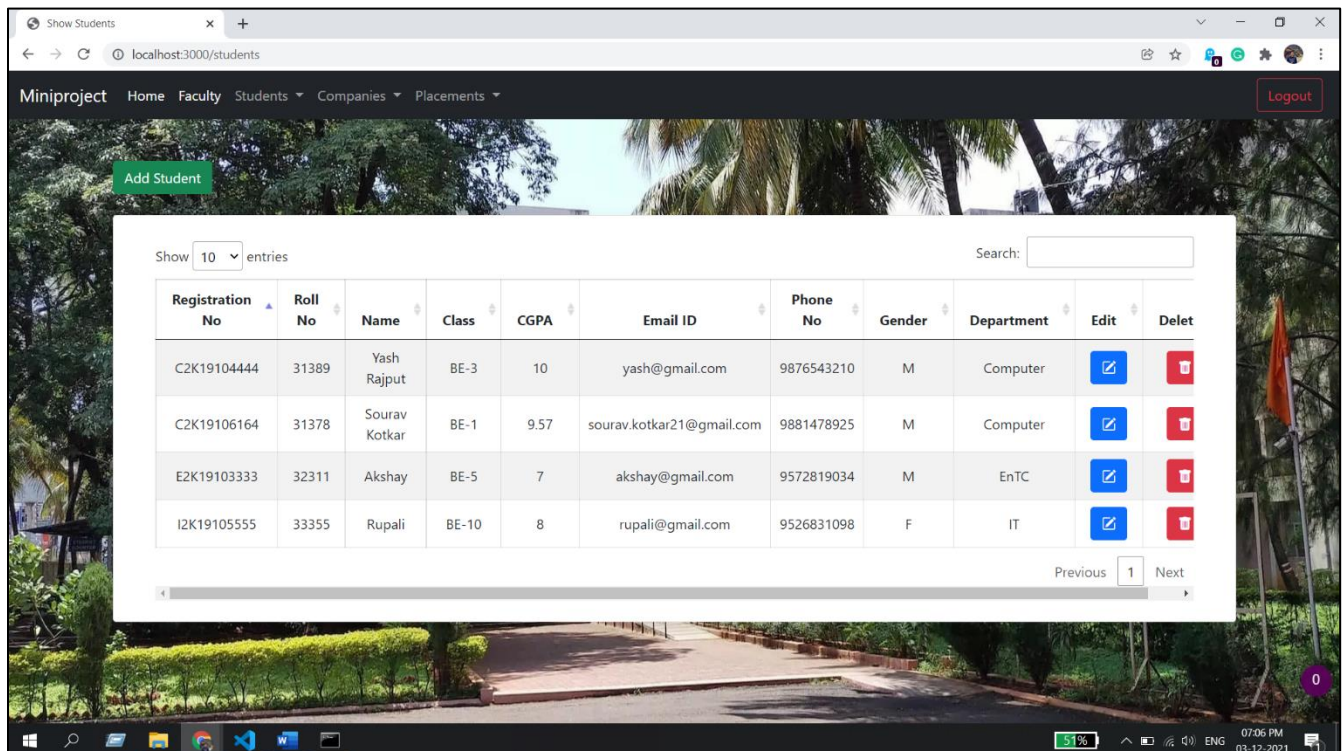
Home Page :



Faculty Page :



Show Students Page :



Show Companies Page :

Miniproject Home Faculty Students Companies Placements Logout

Add Company

Show 10 entries Search:

Name	Type	CGPA Criteria	Dept. Criteria	Contact Name	Contact Email	Contact Phone	Edit	Delete
Infosys	Niche	7	CE IT	Contact One	pqr@gmail.com	9371638940		
PhonePe	Niche	8.3	CE IT	Contact Two	xyz@gmail.com	9876543210		

Previous 1 Next

Show Placements Page :

Miniproject Home Faculty Students Companies Placements Logout

Add Placement

Show 10 entries Search:

Reg No	Type	Company	Role	Location	Placement Date	Salary	Edit	Delete
C2K19104444	On-Campus	Infosys	Backend Dev	Pune	15-9-2021	₹ 1500000		
C2K19106164	On-Campus	PhonePe	SDE	Pune	21-9-2021	₹ 3000000		
E2K19103333	On-Campus	Infosys	SDE	Mumbai	20-9-2021	₹ 2000000		
I2K19105555	On-Campus	Infosys	Software Engg	Pune	23-10-2021	₹ 1200000		

Previous 1 Next

Add Student Page :

Add Student

Registration No.

Roll No.

Name

Class

BE-1

CGPA

0

Email ID

Phone No.

Gender

☒ Male

☐ Female

☐ Other

Department

Computer

Add Student

Add Company Page :

Add Company

Company Name

Type:

☒ Niche Recruiter

☐ Variant Recruiter

CGPA Criteria

0

Department Criteria

☒ Computer

☒ IT

☐ EnTC

Contact Name

Contact Email

Contact Phone

Add Company

Add Placement Page :

Add Placement

Registration No.

Type
☒ On-Campus
☐ PPO

Company
Infosys

Role

Location

Placement Date
dd-mm-yyyy

Salary (₹)

Add Placement

Students Table :

www.phpmyadmin.co / remotenotepad

phpmyadmin.co/sql.php?server=1&db=pCXAhbEpX&table=student&pos=0

Server: remotemysql.com » Database: pCXAhbEpX » Table: student

BrowseStructureSQLSearchInsertExportImportOperations

Showing rows 0 - 3 (4 total, Query took 0.1401 seconds.)

SELECT * FROM `student`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	reg_no	roll_no	name	class	cgpa	email	phone_no	gender	dept	
<input type="checkbox"/>	Edit Copy Delete	C2K19104444	31389	Yash Rajput	BE-3	10	yash@gmail.com	9876543210	M	Computer
<input type="checkbox"/>	Edit Copy Delete	C2K19106164	31378	Sourav Kotkar	BE-1	9.57	sourav.kotkar21@gmail.com	9881478925	M	Computer
<input type="checkbox"/>	Edit Copy Delete	E2K19103333	32311	Akshay	BE-5	7	akshay@gmail.com	9572819034	M	EnTC
<input type="checkbox"/>	Edit Copy Delete	I2K19105555	33355	Rupali	BE-10	8	rupali@gmail.com	9526831098	F	IT

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Recent Favorites

information_schema

pCXAhbEpX

New

company

placement

student

users

Console

59% 07:58 PM 03-12-2021

Company Table :

The screenshot shows the phpMyAdmin interface for the 'company' table. The table has 2 rows and 7 columns: name, type, cgpa_criteria, dept_criteria, contact_name, contact_email, and contact_phone. The data is as follows:

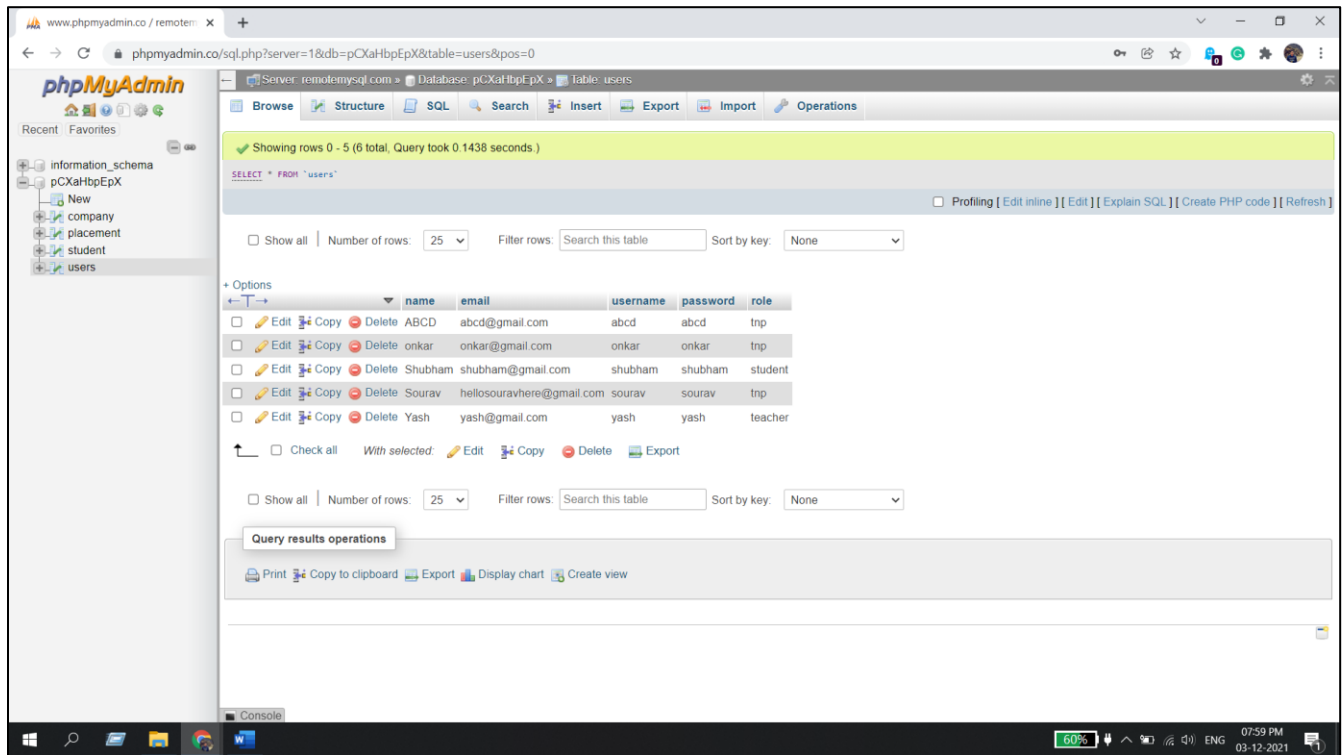
name	type	cgpa_criteria	dept_criteria	contact_name	contact_email	contact_phone
Contact One	Infosys	Niche	7 CE IT	pqr@gmail.com	9371638940	
Contact Two	PhonePe	Niche	8.3 CE IT	xyz@gmail.com	9876543210	

Placements Table :

The screenshot shows the phpMyAdmin interface for the 'placement' table. The table has 5 rows and 8 columns: reg_no, type, company_name, role, location, placement_date, and salary. The data is as follows:

reg_no	type	company_name	role	location	placement_date	salary
C2K19104444	On-Campus	Infosys	Backend Dev	Pune	2021-10-15	1500000
C2K19106164	On-Campus	PhonePe	SDE	Pune	2021-10-21	3000000
E2K19103333	On-Campus	Infosys	SDE	Mumbai	2021-10-20	2000000
I2K19105555	On-Campus	Infosys	Software Engg	Pune	2021-11-23	1200000

Users Table :



The screenshot displays the phpMyAdmin web interface. The left sidebar shows the database structure with 'information_schema' and 'pCXaHbpEpX' selected. The main panel shows the 'users' table with 6 rows. The table columns are 'name', 'email', 'username', 'password', and 'role'. The rows are:

	name	email	username	password	role
<input type="checkbox"/>	ABCD	abcd@gmail.com	abcd	abcd	trnp
<input type="checkbox"/>	onkar	onkar@gmail.com	onkar	onkar	trnp
<input type="checkbox"/>	Shubham	shubham@gmail.com	shubham	shubham	student
<input type="checkbox"/>	Sourav	hellosouravhere@gmail.com	sourav	sourav	trnp
<input type="checkbox"/>	Yash	yash@gmail.com	yash	yash	teacher

Below the table, there are options to 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The 'Query results operations' section includes 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The bottom status bar shows the system time as 07:59 PM on 03-12-2021.

Placement Management System Test Cases:

1. Only registered user and admin should be able to login into account.
2. Without username & password one cannot be able to login into system.
3. The admin (TnP Cell) can add new records in student, company, and placement tables.
4. The admin has rights to edit or delete the existing records in students, company and placement tables.
5. Students & teachers can view all the tables' records but cannot modify the records.
6. All the users are able to view the records of all tables present in the database.
7. Check by entering the correct URL in the browser, and the application should be loading properly.
8. Check if there is any user verification functionality present on the application.
9. Check by entering valid credential like username and password user should be able to log in.
10. Check by entering invalid credentials the user should not be able to login into the application, and an error message should be displayed.
11. Check the admin has all the access.

Conclusion:

We have implemented placement management system which helps to store the information of students, companies and placements involved in the college. The users can perform different operations such as view, update and delete the records depending upon their role (student, teacher, or TnP Cell). The project will help colleges to manage the record of placements in simple and efficient manner and provide easy access to the records to students and faculty.

Code Link:-

<https://github.com/DBMS-Project-Developers/placement-record>