

# **Placement-Management-System**

**20IT146 – Sahil Sojitra**

Smt. Kundaben Dinsha Patel Department of Information Technology

Charotar University of Science and Technology, Anand, Gujarat, India

[20it146@charusat.edu.in](mailto:20it146@charusat.edu.in)

**Guide:** Nishat Shaikh

## **Introduction:**

Placement Management System is created with aim to provide efficient platform for Placement related all the features. It provides facilities to all persons related to placement process, College TPO to manage on campus Job and Company (HR) to manage Off campus and on campus Job and Student to apply both Job. There are currently some systems which more or less implement the features that we'll be providing, but not all the features that we provide are covered in a single application.

Our system aims at providing the compatibility to simplify the process of placement for students, Companies and TPO.

This system that consists of a student login, company login and a TPO login. This is beneficial for college students, various companies visiting the campus for recruitment and even the college placement officer.

The system consists of a company login where various companies can view a list of students in that college and also their respective Academic details and assign off campus Job announcement and also request TPO for job announcement. Also see the applied student list.

TPO can add student details, view student details and announce on campus job to student.

And TPO can see the company details and requested company's job request.

The software system allows the students to create their profiles or TPO added student login. Students can view a list of companies. See on campus/off campus job details and applied on it.

## **Purpose:**

The purpose of the project is to build a web-application program to reduce the manual work for placement cell of all colleges, for students and for companies. It maintains records of students and as well as companies instead of written materials. The project focuses on designing a System for graduating students to a pool company from various domains.

## **Scope:**

Our project has a big scope to do. We can store information of all the students, Companies, TPO. Various companies can access the information. Company announced jobs. Students can maintain their information and can update it. Student can view and apply the on campus/Off campus job. All Information can

manage by collage respective officers (TPO).  
And there are many more scope...

### **Technology and Literature Review:**

Following Technologies are used for development/management/tracking. For frontend Bootstrap, JavaScript, jQuery (Basic HTML, CSS) are used. For Backend Nodejs, Express JS are used and For Database MySQL is used. We are equipped with basic workflows of each tool and tech. and capable to explore further if required. Each of the above technologies is freely available and some of the skills yet to be learnt but it is manageable. From this, it is clear that our project is technically feasible.

### **Non-Functional Requirements:**

**Security:** Security is primary requirement of any system. This platform must maintain/process data in secure way so unauthorized entities do not have illegal access of it.

**Performance:** Performance requirements define how well the system performs certain functions under specific conditions. Examples are speed of response, throughput, execution time and storage capacity. ... Like most quality attributes, performance requirements are key elements when designing and testing the product. This platform should be designed in such a way that its performance is smooth for users.

**Scalability:** Scalability is a property of a system that describes the ability to appropriately handle increasing (and decreasing) workloads. Scalability competes with and complements other non-functional requirements such as availability, reliability and performance. This platform must be designed in such way that it is able to scale well with increasing/decreasing accesses, users etc.

**Availability:** System must be available to authorized users when it required. This platform must be designed in such a way that it is always available to authorized user and should handle abnormal scenarios well by displaying proper message to users. In any abnormal situations, users' data should not be lost.

### **User Characteristics:**

There are three types of users in system require:

1. TPO
2. Student
3. Company (HR)

TPO:

- TPO needs to sign up register giving complete details or login and later view and update details.
- It can manage student add/view details and do on campus job announce.
- It can see request of company (HR) regarding to job and assign job to student and see applied student list.

Student:

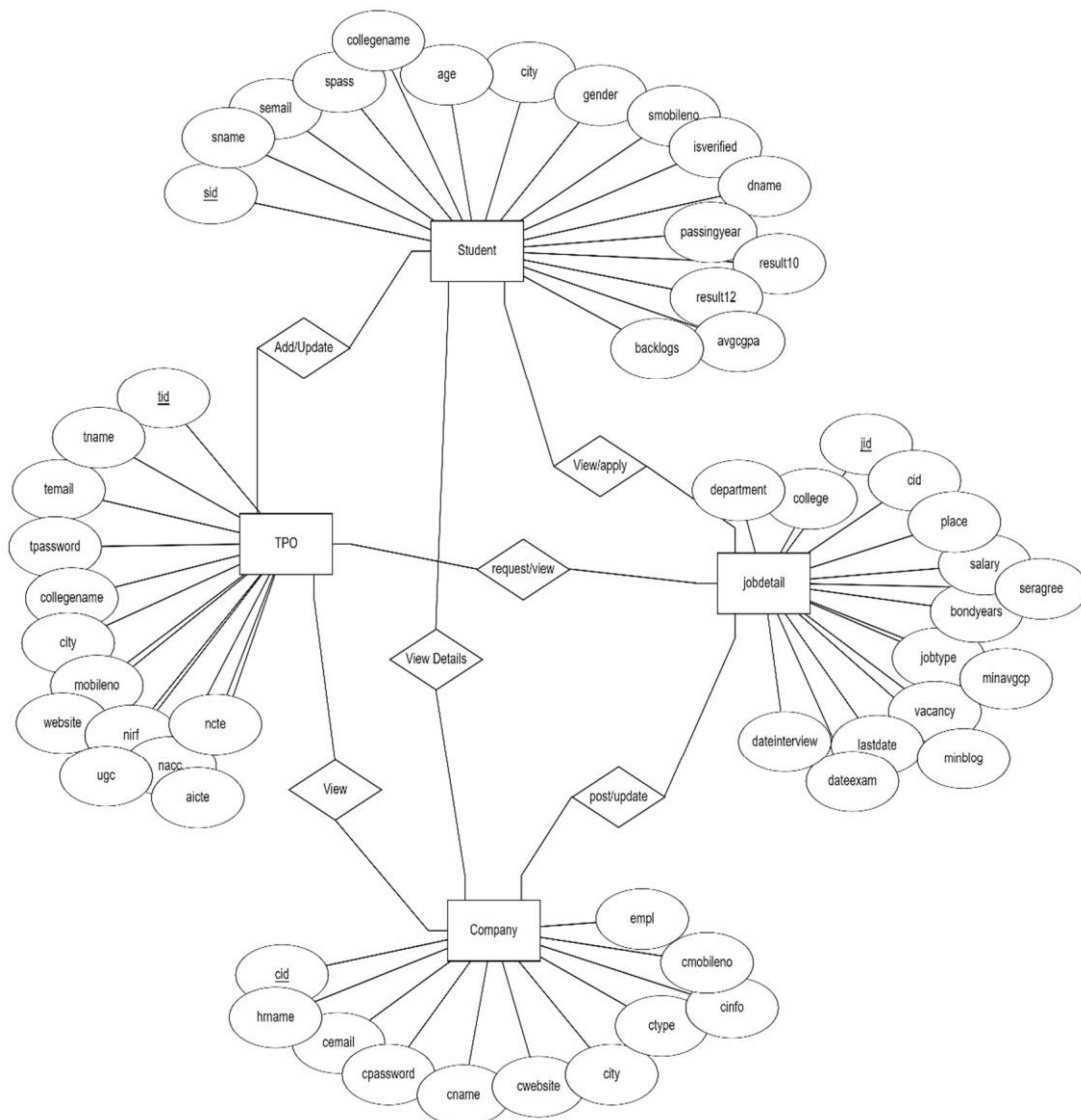
- Student need to sign up register giving complete details or login and later view and update details.
- They can view and apply for any Company announce job Off campus or on campus job announcement.

Company (HR):

- The Company initially has to sign up register giving complete details or login and later view and update details.

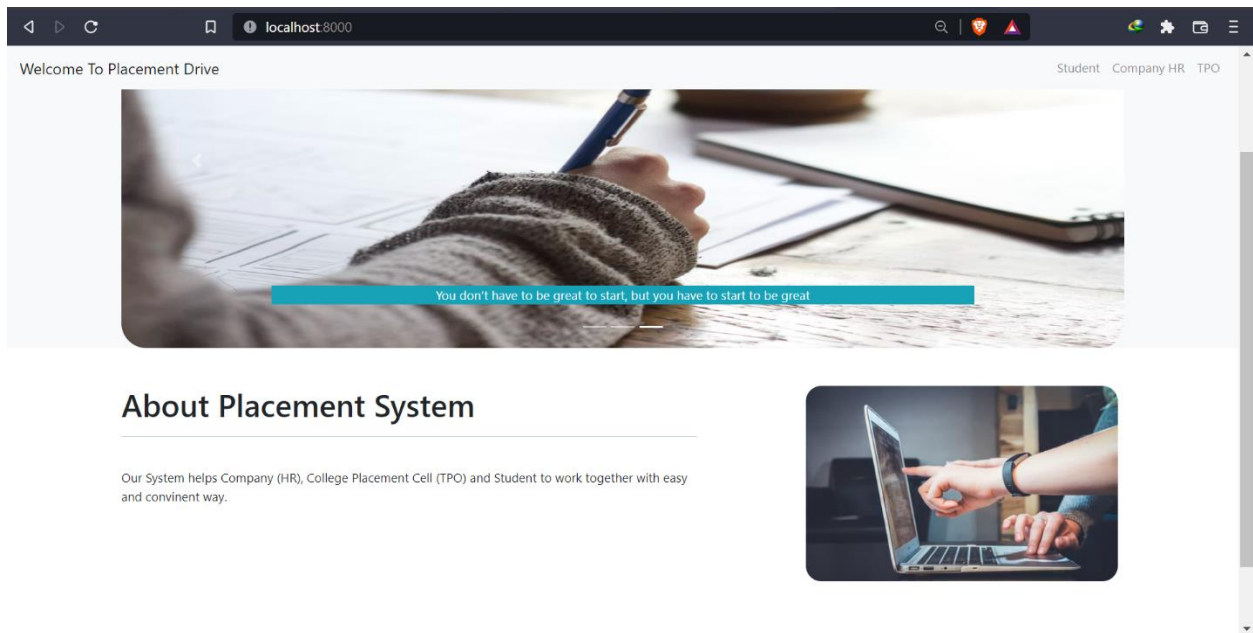
- The Company (HR) has to request the Placement officer for on campus job announcement.
- It also assigns Off campus job announcement.
- The Company may shortlist the students who applied. They may use their details (academic as well as personal).

### **ER DIAGRAM OF PLACEMENT MANAGEMENT SYSTEM**

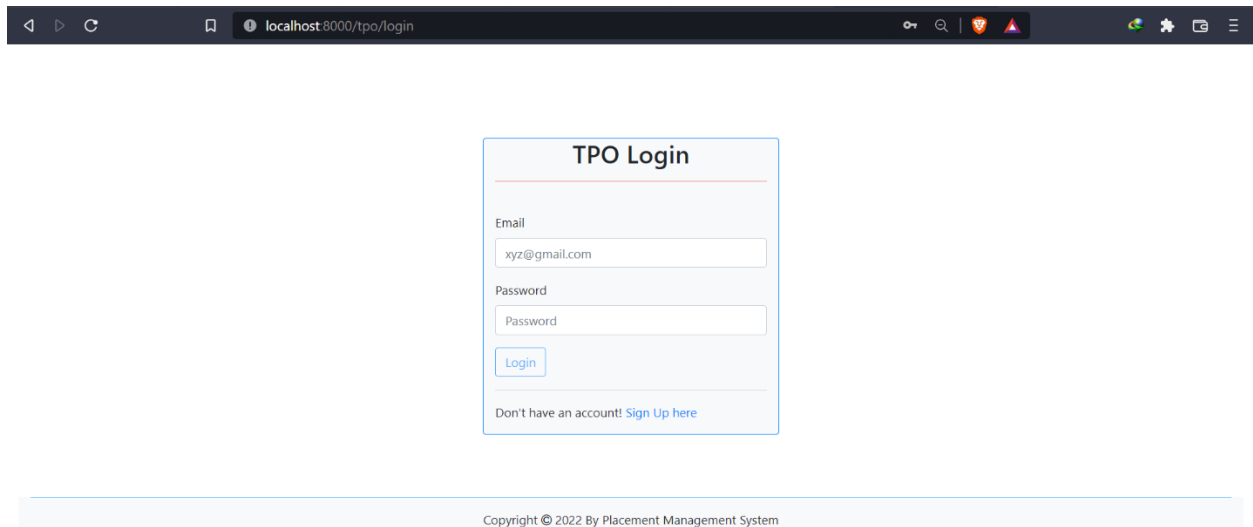


## User Manual:

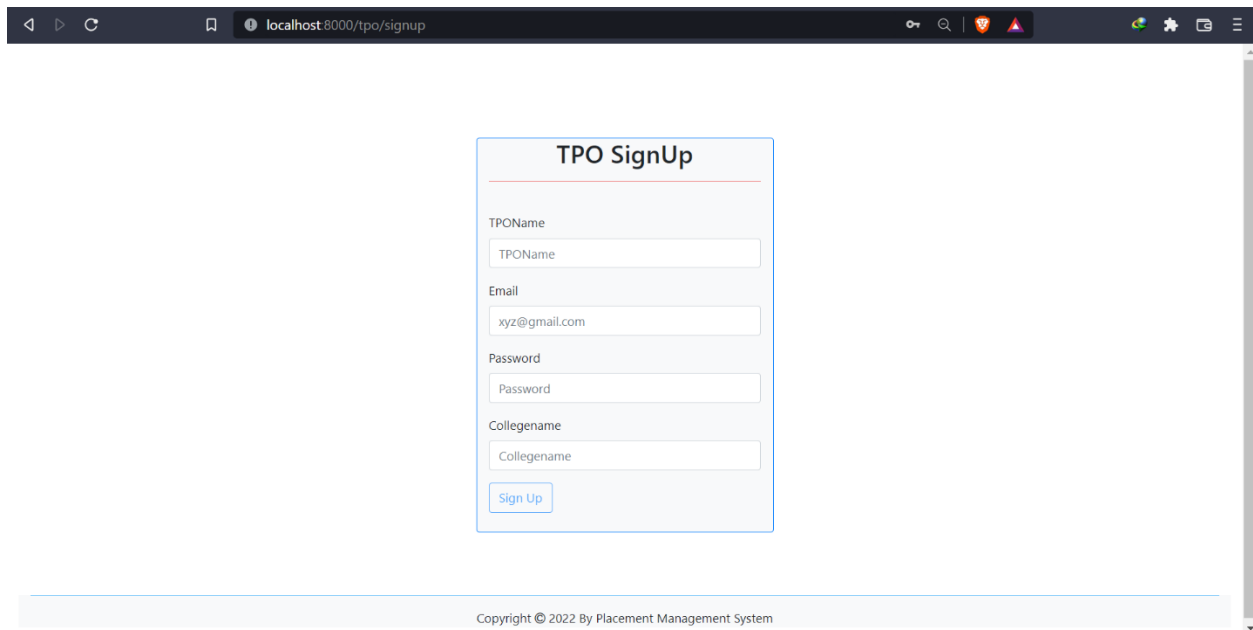
First the homepage of our website



Login Page of TPO:



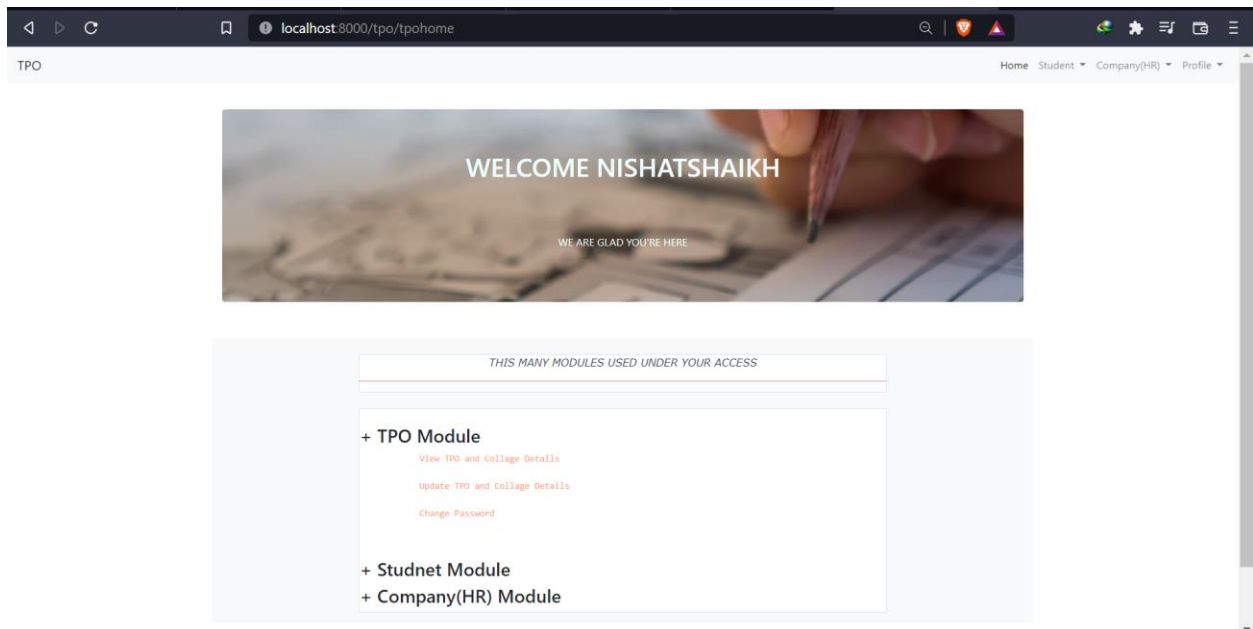
## Signup Page of TPO:



The screenshot shows a web browser window with the address bar displaying "localhost:8000/tpo/signup". The page features a "TPO SignUp" form with the following fields: "TPOName", "Email" (containing "xyz@gmail.com"), "Password", and "Collegename". A "Sign Up" button is located at the bottom of the form. The footer of the page contains the text "Copyright © 2022 By Placement Management System".

There is also seen as same Signup page with some different input for Company(HR) and Student.

## TPO Home Page:



The screenshot shows the TPO Home page in a web browser. The address bar displays "localhost:8000/tpo/tpohome". The page has a navigation bar with links: "Home", "Student", "Company(HR)", and "Profile". The main content area features a large banner with the text "WELCOME NISHATSHAIKH" and "WE ARE GLAD YOU'RE HERE". Below the banner, there is a section titled "THIS MANY MODULES USED UNDER YOUR ACCESS" which lists the following modules: "TPO Module", "Studnet Module", and "Company(HR) Module". The "TPO Module" section includes links for "View TPO and Collage Details", "Update TPO and Collage Details", and "Change Password".

## TPO View Profile:

TPO

Home Student Company(HR) Profile

### Tpo Detail

Name: nishatshaihh

Email: nishatshaihh@gmail.com

Mobilen0: 123456789

### College Detail

CollegeName: CHARUSAT

Website: www.charusat.com

City: vadodra

NIRF Rank: 12

NAAC Accredited: no

NCTE: no

AICTE: no

UGC: no

Edit Profile

There is also seen same page with different field for Company (HR) and Student.

## TPO Edit Profile:

TPO

Home Student Company(HR) Profile

### Edit Profile

### Tpo Detail

Name: nishatshaihh

Email: nishatshaihh@gmail.com

Mobilen0: 123456789

### College Detail

CollegeName: CHARUSAT

Website: www.charusat.com

City: vadodra

NIRF Rank: 12

NAAC Accredited: ☐ yes ☒ no

NCTE: ☐ yes ☒ no

AICTE: ☐ yes ☒ no

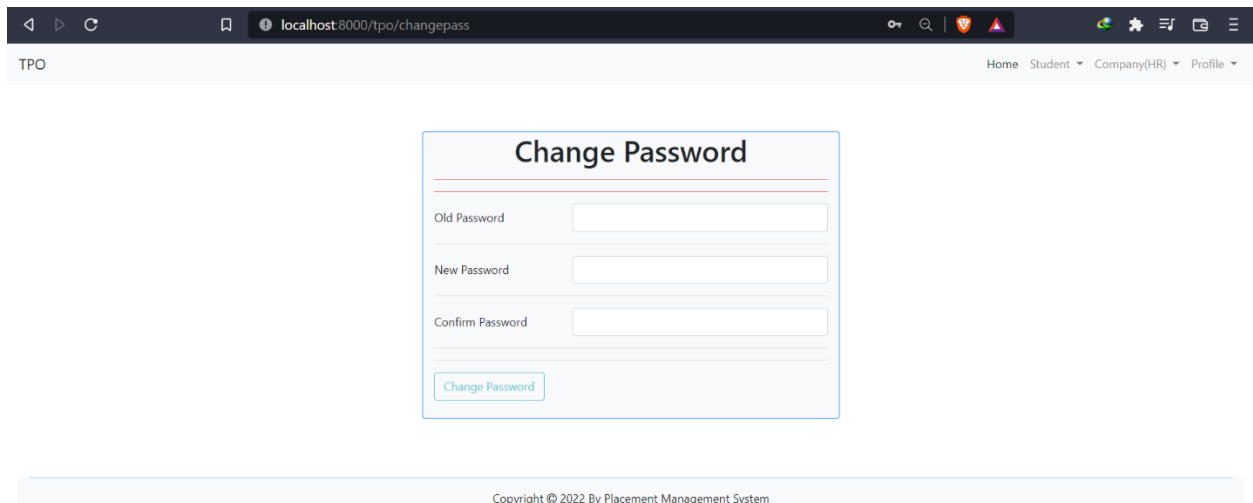
UGC: ☐ yes ☒ no

Update

Copyright © 2022 By Placement Management System

There is also seen same page with different field for Company (HR) and Student.

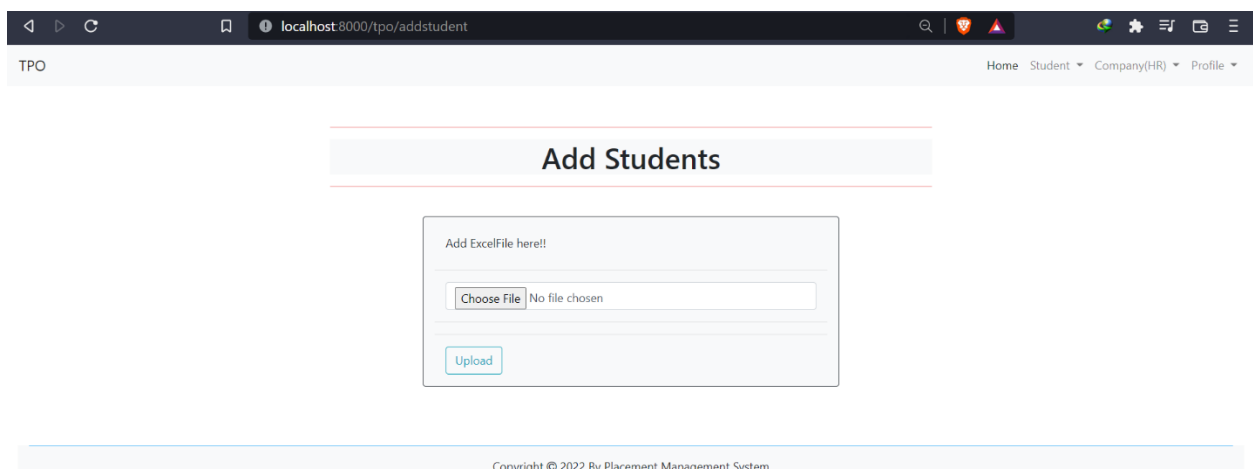
### TPO Changed Password:



The screenshot shows a web browser window with the address bar displaying 'localhost:8000/tpo/changepass'. The page has a header with 'TPO' on the left and navigation links 'Home', 'Student', 'Company(HR)', and 'Profile' on the right. The main content area features a 'Change Password' form with three input fields: 'Old Password', 'New Password', and 'Confirm Password'. A 'Change Password' button is located at the bottom of the form. The footer contains the text 'Copyright © 2022 By Placement Management System'.

There is also seen same page with same functionality for Company (HR) and Student.

### Add Student:



The screenshot shows a web browser window with the address bar displaying 'localhost:8000/tpo/addstudent'. The page has a header with 'TPO' on the left and navigation links 'Home', 'Student', 'Company(HR)', and 'Profile' on the right. The main content area features an 'Add Students' form with a text input field labeled 'Add ExcelFile here!'. Below the input field is a 'Choose File' button and the text 'No file chosen'. An 'Upload' button is located at the bottom of the form. The footer contains the text 'Copyright © 2022 By Placement Management System'.

## TPO Job Request:

TPOHomeStudentCompany(HR)Profile

Job Requestlist

Show 10 entries

Search:

S.N	Companyname	Location	Salary	Bond_years	Jobtype	Vacancy	Departments	Action
1	easytech	Ahemdabaad	20000/month	1	Internship + Job	25	COMPUTER	<a href="#">Accept</a>    <a href="#">Reject</a>
2	tcs	Bangalore	25000/month	1	Job	36	MBA,IT	<a href="#">Accept</a>    <a href="#">Reject</a>
S.N	Companyname	Location	Salary	Bond_years	Jobtype	Vacancy	Departments	Action

Showing 1 to 2 of 2 entries

Previous1Next

Copyright © 2021 By Placement Management System

User can Accept or Reject Request.

## TPO Announced on Campus Job List:

TPOHomeStudentCompany(HR)Profile

Announced Job List

Show 10 entries

Search:

S.N	Companyname	Location	Salary	Bond_years	Jobtype	Vacancy	LastDateRegistration	Date of Exam	Date of Interview	Departments	Action	Applied Students
1	tcs	Nadiad	50000/month	0	Internship + Job	35	2021-04-07	2021-04-08	2021-04-10	COMPUTER,IT	<a href="#">Edit</a> <a href="#">Remove</a>	<a href="#">List</a>
S.N	Companyname	Location	Salary	Bond_years	Jobtype	Vacancy	LastDateRegistration	Date of Exam	Date of Interview	Departments	Action	Applied Students

Showing 1 to 1 of 1 entries

Previous1Next

Copyright © 2021 By Placement Management System

User can edit dates and also remove job from their student.



## TPO Applied Student List for Particular Job:

TPO

Home Student Company(HR) Profile

Applied Students List

Fulfilled Min. Criteria Students

Show 10 entries

Search:

S.N	sname	Email	Age	City	Gender	Mobile	IsVerified	Dname	PassingYear	10thresult	12thresult	avgcgpa	Backlogs
1	Darshak Kathiriya	darshak@gmail.com	18	jamnagar	male	9876598765	YES	IT	2021	90	95	9	0

Showing 1 to 1 of 1 entries

Previous 1 Next

Not Fulfilled Min. Criteria Students

Show 10 entries

Search:

S.N	sname	Email	Age	City	Gender	Mobile	IsVerified	Dname	PassingYear	10thresult	12thresult	avgcgpa	Backlogs
No data available in table													

Showing 0 to 0 of 0 entries

Previous Next

Copyright © 2021 By Placement Management System

As TPO User it also can see all company details and student details with search functionality.

## Company (HR) Off Campus Job Announce:

COMPANY HRHome Student Tpo Profile

### Job Post

Location

Salary

Bond\_years

Service Agreement Des.

Jobtype

Job

Job Description

Vacancy

(Min criteria)

AvgCPI(>=)

backlogs(<=)

Last Date of Registration

dd-mm-yyyy

Date of Exam

dd-mm-yyyy

Date of Interview

dd-mm-yyyy

SelectCollege

all

Departments

☐ COMPUTER ☐ CIVIL ☐ MBA ☐ MCA ☐ IT ☐ CHEMICAL

Post Job

Copyright © 2021 By Placement Management System

## Company (HR) View Announced Off campus Job:

COMPANY HRHome Student Tpo Profile

### Job List

Show 10 entries

Search:

S.N	Location	Salary	Bond_years	Jobtype	Vacancy	LastDateRegistration	Date of Exam	Date of Interview	SelectedCollege	Departments	Action	Applied Students
1	Ahemdabaad	20000/month	0	Job	35	2021-04-06	2021-04-01	2021-04-04	tpocollege	COMPUTER,MBA	<a href="#">Edit</a> <a href="#">Delete</a>	List
2	Ahemdabaad	20000/month	0	Job	25	2021-04-08			tpocollege	COMPUTER,MCA	<a href="#">Edit</a> <a href="#">Delete</a>	List
3	Surat	15000/month	1	Job	20	2021-04-03	2021-04-07	2021-04-09	all	COMPUTER,IT	<a href="#">Edit</a> <a href="#">Delete</a>	List
S.N	Location	Salary	Bond_years	Jobtype	Vacancy	LastDateRegistration	Date of Exam	Date of Interview	SelectedCollege	Departments	Action	Applied Students

Showing 1 to 3 of 3 entries

[Previous](#) [1](#) [Next](#)

Copyright © 2021 By Placement Management System

User can Edit or Delete any Job

Company (HR) see Off campus applied student for particular job:

COMPANY HR

Home Student Tpo Profile

Offcampus applied Students

Fulfilled Min. Criteria Students

Show 10 entries

Search:

S.N	sname	Email	College	Age	City	Gender	Mobile	IsVerified	Dname	PassingYear	10thresult	12thresult	avcgcpa	Backlogs
2	dip Vachhani	dip@gmail.com	ddu	18	jamnagar	male	9876598766	YES	COMPUTER	2021	80	95	9	0
S.N	sname	Email	College	Age	City	Gender	Mobile	IsVerified	Dname	PassingYear	10thresult	12thresult	avcgcpa	Backlogs

Showing 1 to 1 of 1 entries

Previous 1 Next

Not Fulfilled Min. Criteria Students

Show 10 entries

Search:

S.N	sname	Email	College	Age	City	Gender	Mobile	IsVerified	Dname	PassingYear	10thresult	12thresult	avcgcpa	Backlogs
1	shyam	shaym@gmail.com	ddu	20	surat	male	9873216544	YES	IT	2021	92	95	7.77	0
S.N	sname	Email	College	Age	City	Gender	Mobile	IsVerified	Dname	PassingYear	10thresult	12thresult	avcgcpa	Backlogs

Showing 1 to 1 of 1 entries

Previous 1 Next

Copyright © 2021 By Placement Management System

User see applied student list based on criteria and also search student if required.

## Company (HR) Request TPO:

COMPANY HR

Home Student Tpo Profile

### Requet Tpo

Location

Salary

Bond\_years

Service Agreement Des.

Jobtype

Job Description

Vacancy

(Min criteria) AvgCPI(>=) backlogs(<=)

SelectCollege

Departments

Request TPO

Copyright © 2021 By Placement Management System

## As Company (HR) User can see List of job request.

Company (HR) Can See accepted Job request And Announced Job.

COMPANY HR

Home Student Tpo Profile

### Accepted Job List

Showing 1 to 1 of 1 entries

Search:

S.N	Location	Salary	Bond_years	Jobtype	Vacancy	LastDateRegistration	Date of Exam	Date of Interview	SelectedCollege	Departments	Action	Applied Students
1	Nadiad	50000/month	0	Internship + Job	35	2021-04-07	2021-04-08	2021-04-10	tpocollege	COMPUTER,IT	<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">List</a>
S.N	Location	Salary	Bond_years	Jobtype	Vacancy	LastDateRegistration	Date of Exam	Date of Interview	SelectedCollege	Departments	Action	Applied Students

Showing 1 to 1 of 1 entries

Previous 1 Next

Copyright © 2021 By Placement Management System

As Company (HR) User can edit and delete assigned job and also see on campus applied student List.  
As Company (HR) User can see List of rejected job and also delete that request.

Student Can See Off Campus Job announce:

STUDENT

Home Company TPO Profile

Offcampus Job List

Show 10 entries

Search:

S.N	Company	Location	Salary	Vacancy	Jobtype	LastDateRegistration	More for Apply
1	easytech	Pune	50000/month	15	Internship + Job	2021-04-20	Click!!
2	tcs	Ahemdabaad	20000/month	35	Job	2021-04-06	Click!!
3	tcs	Ahemdabaad	20000/month	25	Job	2021-04-08	Click!!
4	tcs	Surat	15000/month	20	Job	2021-04-03	Click!!
S.N	Company	Location	Salary	Vacancy	Jobtype	LastDateRegistration	More For Apply

Showing 1 to 4 of 4 entries

Previous 1 Next

Copyright © 2021 By Placement Management System

Also, likely Same page with valid on campus Job list there.

Student Can Apply Off campus Job:

STUDENT

Home Company TPO Profile

Apply Offcampus Job

Company Name tcs

Location Ahemdabaad

Salary 20000/month

Bond\_years 0

Service Agreement Des. some job serv agreement are there

Jobtype Job

Job Description Field Eng

Vacancy 35

(Min criteria) AvgCPI(>=) 8.600 backlogs(<=) 0

Last Date of Registration 06-04-2021

Date of Exam 01-04-2021

Date of Interview 04-04-2021

Departments COMPUTER,MBA

Apply Now

Copyright © 2021 By Placement Management System

Also, likely Same page with valid on campus Job apply there.

Student Off campus Applied Job List:

STUDENT

Home Company TPO Profile

Applied Offcampus Job

Show 10 entries

Search:

S.N	Company	Designation	Salary	Bond_years	Vacancy	Jobtype	Job Des.	Date of Exam	Date of Interview	Fulfilled Min Criteria
1	easytech	Pune	50000/month	0	15	Internship + Job		2021-04-22	2021-04-24	no
2	tcs	Ahemdabaad	20000/month	0	35	Job	Field Eng	2021-04-01	2021-04-04	yes
S.N	Company	Designation	Salary	Bond_years	Vacancy	Jobtype	Job Des.	Date of Exam	Date of Interview	Fulfilled Min Criteria

Showing 1 to 2 of 2 entries

Previous 1 Next

Copyright © 2021 By Placement Management System

Also, likely Same page with valid on campus Job applied job there.

### Conclusion:

According to me, this project gave all of us the confidence to believe in ourselves and a great experience of how to work as a team. It also boosted our technical coding as well as time management skills. To complete this project, first We understood the need of such system then We gathered relevant data and started work on it. After that We started designing and coding phase for actual implantation of the system.

**References:**

- Npm Packages: <https://www.npmjs.com/>
- Node Js/Express Js MDN: [https://developer.mozilla.org/enUS/docs/Learn/Server-side/Express\\_Nodejs](https://developer.mozilla.org/enUS/docs/Learn/Server-side/Express_Nodejs)
- Stack overflow: <https://stackoverflow.com>
- Node Js: <https://nodejs.dev/learn>
- Geeks for Geeks: <https://www.geeksforgeeks.org/>
- YouTube: <https://www.youtube.com/>
- jQuery: <https://learn.jquery.com/>
- Bootstrap 4: <https://getbootstrap.com/docs/4.6/getting-started/introduction/>
- W3 Schools: <https://www.w3schools.com/>
- MySQL Document: <https://docs.oracle.com/en-us/iaas/mysql-database/>