

PROJECT REPORT

MOTIVATION:

The main objective of the placement management system is to reduce manual work and time. At present, Placement managers of various departments have to manage all the student's profiles and documents. They also have to collect the information of various companies who come for recruitment. They have to arrange profiles of students according to various streams and notify them each time according to company requirements. Additionally, they are also responsible for submitting the information of students and if any changes or updates are required in the profile of any student, it has to be done manually.

This process is very difficult and tedious especially when the number of users increases, hence is also time-consuming. Chances of missing data are also very likely. It is also difficult for collecting, managing, and updating student data as the number of students increases.

The purpose of this system is to automate the existing manual system with the help of computer software and store the data entered for a longer time with ease of access.

There are many reasons why such an application would be useful, some of them are:

- Eases the process of finding out the list of eligible candidates.
- manages the details of student records and different placements happening in and out of the college.
- Saves the time of the Placement manager and others.
- Reduces manual work.
- Essentially will provide a common point of communication for students and the Placement Cell in the college, cutting down the use of multiple platforms.
- It will help students stay up to date with the offer they are applying for as well as provide a place to store their updated CV's.
- Makes student information secure.
- Digitalises existing methods of placement hence easy to find statistics of placed students and companies.

So, we will be designing a web-based placement management system. Now, the placement manager itself can carry out operations in a smooth and effective manner. They need not concentrate on record keeping. The college can maintain computerized records thus reducing paperwork, time and money.

INTRODUCTION:

Manual Placement which is done at various colleges is by human intervention due to which there is a maximum chance of errors. The major problem is searching and updating of the student data. 'Placement Management System', provides information to the students about the various ongoing placements and offers, while also keeping an up to date information about the students. It is a platform where students can view and access their opportunities.

Our solution will be a web-based platform, where students of the college can register once and then get unique dashboards. The system will have different types of accounts for different types of users such as Admin, Student, and placement secretary. Hence this provides different access levels and makes sure the data is in the right hands. A profile for each student is created with the necessary credentials for the portal. The

system uses a relational database for database management. It will sort the data of the student based on eligibility criteria demanded by the respective companies and a list of eligible candidates will be prepared. Based on the company's requirements and student details a final data set is created and the interested candidates will be marked as an applicant for an offer. Each placement drive will get a mini dashboard where applicants will be kept up to date with the progress and processes. This way it reduces the work of college staff or faculty from the problems caused by human error and wastage of time doing all processes manually.

Additionally, we would also try to integrate a Direct Messaging system so that if there are any queries a student needs to ask, they can contact the Placement Manager of their respective departments. Similarly, the Placement Managers can also personally notify confidential information to students. This reduces the need for another platform like WhatsApp for relaying quick messages to students. An additional statistics dashboard will display all the students who have sat for placements and those who have successfully got placed from the campus. Hence this will also lead to easier access to previous records.

The system intends to do user-friendly operations which may resolve ambiguity. The project is total management and informative system which provides up-to-date placement information on all the students in the college. The project facilitates a friendly, reliable and fast management system.

FEATURES:

- Displays the information of ongoing placement drives.
- Roles-based access to the Placement secretary/manager, HODs of departments, the principal and students. This helps with different levels of authorisation.
- Eases the burden of the placement manager, by creating a one-point communication between students and the placement cell.
- A main dashboard for announcing new placements will be provided. These can be filtered by the students based on year, role and type of opportunity.
- Announcements, notifications, responses and updates on student placement become easier and everything is available in one place.
- Students will be provided with a profile section, where they can upload and update their data as required by the company or the placement cell.
- Each placement drive will be given a sub-thread/dashboard so that students registered for the particular drive can get updates on ongoing processes.
- Student placement status, the number of offers received and other activities can be tracked by the manager, so that they can maintain placement policies.
- Displays the statistics of the placed student companies which approached the college.
- As a future scope, we will also try to implement a one-to-one message space, through which students can directly communicate with the respective department's placement secretaries.
- Placement Officer can add Students Data by uploading an excel sheet.
- Placement Officer can add/delete Jobs.
- Students Receive their login credentials via email.
- Students get Notified when they apply for a Job.
- Students get Notified when their application is Accepted/Rejected.
- Students can view all the companies and the companies job postings.
- Placement Officer can update job application status.

TECHNOLOGIES USED:

- **Frontend**

- HTML (Hypertext Markup Language)
- CSS (Cascading Style Sheets)
- JS (Java Script)

- **Backend**

- Python (Django Framework)

- **Database**

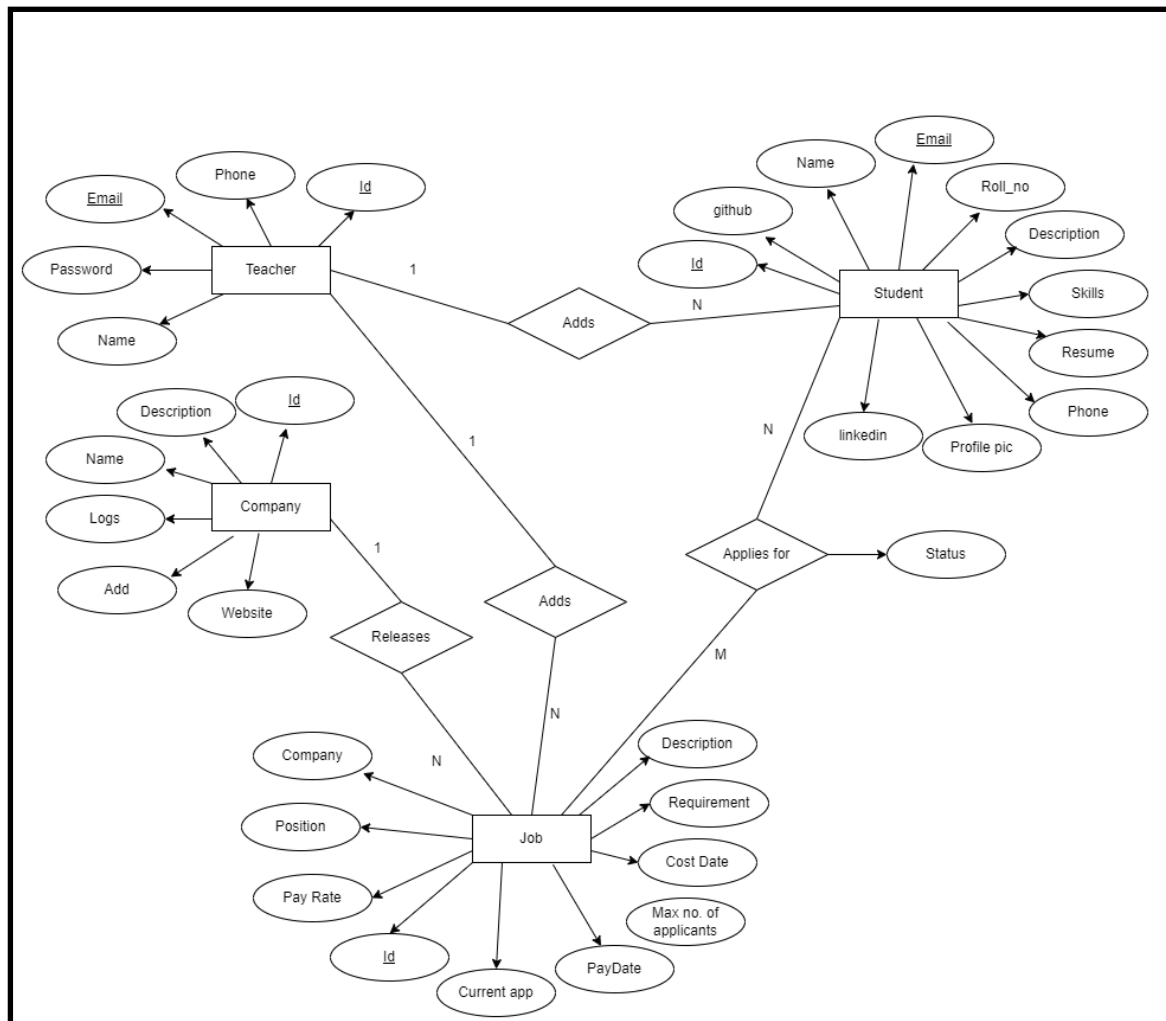
- MySQL

RELATIONSHIP SCHEMA:

1. **Teacher** (id, Name, Email, Phone, Password)
2. **Student** (id, Name, Email, Phone, Password, Roll No, Bio, Skills, Resume, Profile Pic, LinkedIn Link, GitHub Link)
3. **Company** (id, Company Name, Description, Address, Website Link)
4. **Job** (id, Position, Company, Job Description, Requirements, Pay Rate, Last Date to Apply, Max. Applicants, Current Applicants Count)
5. **JobApplication** (id, Job, Applicant, Status)

CODE: <https://github.com/Greeshma2903/placement-management-project>

ER DIAGRAM:



SCREEN-SHOT OF THE TABLES:

```
mysql> desc company;
```

Field	Type	Null	Key	Default	Extra
id	char(32)	NO	PRI	NULL	
created_at	datetime(6)	NO		NULL	
updated_at	datetime(6)	NO		NULL	
company_name	varchar(50)	NO		NULL	
logo	varchar(100)	NO		NULL	
address	longtext	NO		NULL	
desc	longtext	YES		NULL	
web_link	varchar(200)	NO		NULL	

```
8 rows in set (0.00 sec)
```

```
mysql> desc job;
```

Field	Type	Null	Key	Default	Extra
id	char(32)	NO	PRI	NULL	
created_at	datetime(6)	NO		NULL	
updated_at	datetime(6)	NO		NULL	
position	varchar(50)	NO		NULL	
description	longtext	NO		NULL	
requirements	longtext	NO		NULL	
last_apply_date	date	NO		NULL	
pay_rate	int unsigned	NO		NULL	
max_applicant	smallint unsigned	YES		NULL	
no_of_applicants	int	NO		NULL	
is_active	tinyint(1)	NO		NULL	
company_id	char(32)	NO	MUL	NULL	

```
12 rows in set (0.01 sec)
```

```
mysql> desc job_application;
```

Field	Type	Null	Key	Default	Extra
id	char(32)	NO	PRI	NULL	
created_at	datetime(6)	NO		NULL	
updated_at	datetime(6)	NO		NULL	
status	varchar(10)	NO		NULL	
applicant_id	char(32)	NO	MUL	NULL	
job_id	char(32)	NO	MUL	NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> desc teacher;
```

Field	Type	Null	Key	Default	Extra
mybaseuser_ptr_id	char(32)	NO	PRI	NULL	

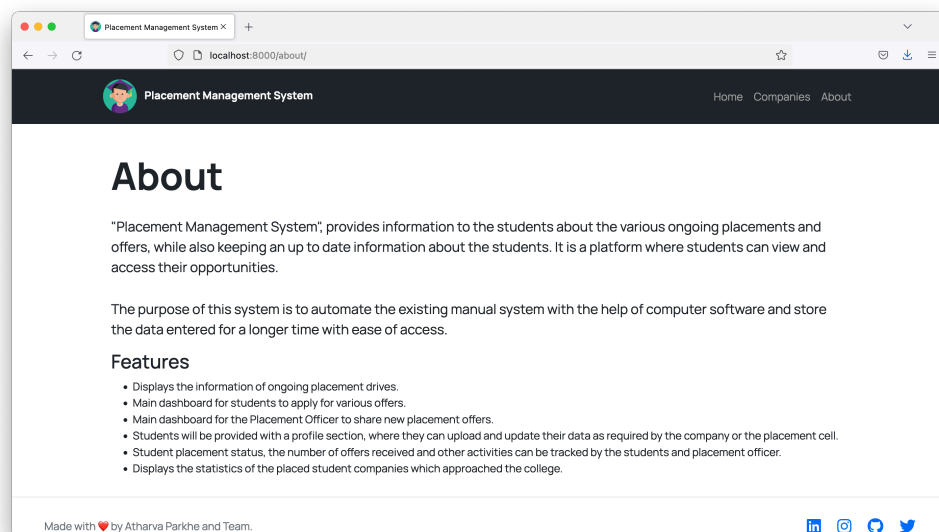
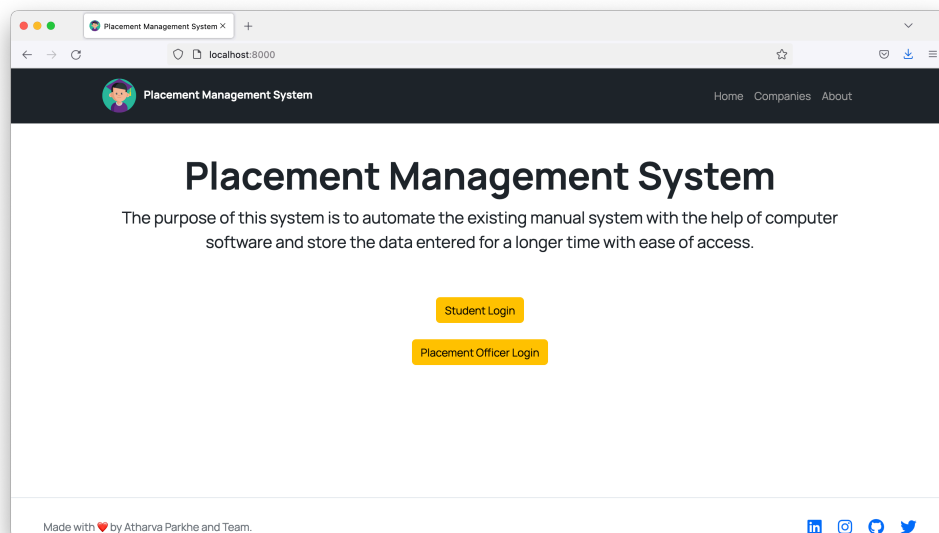
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1 row in set (0.00 sec)
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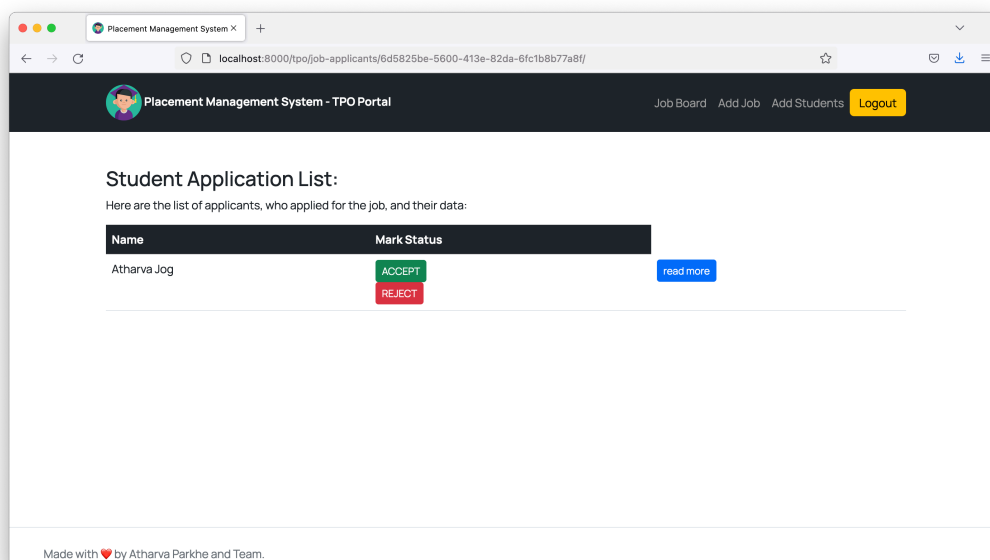
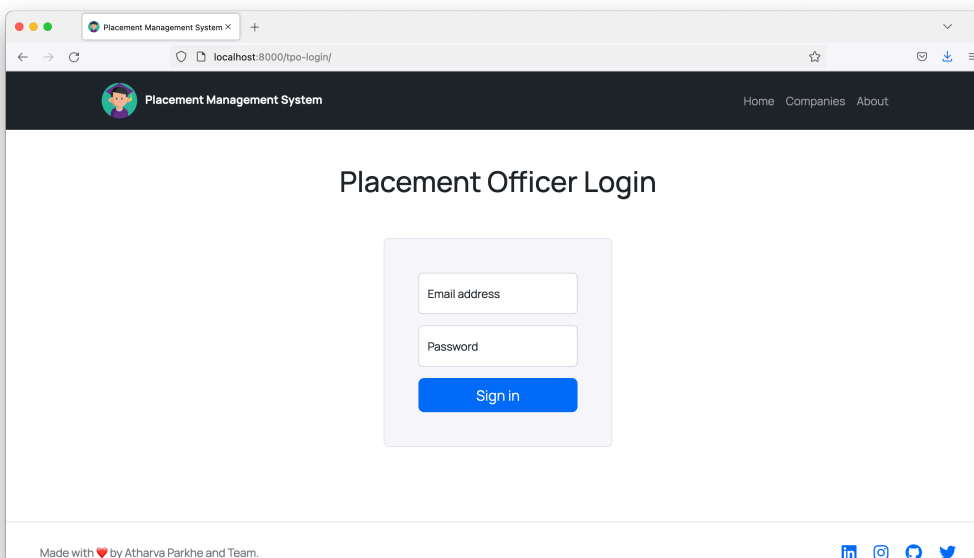
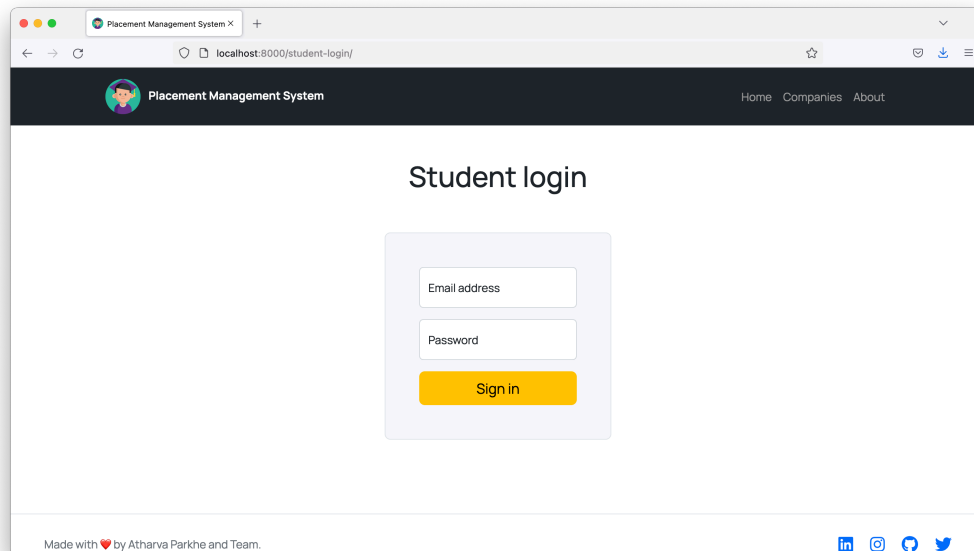
```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
mybaseuser_ptr_id	char(32)	NO	PRI	NULL	
roll_no	int	YES		NULL	
bio	longtext	YES		NULL	
skills	longtext	YES		NULL	
resume	varchar(100)	NO		NULL	
headshot	varchar(100)	NO		NULL	
linkedIn_link	varchar(200)	YES		NULL	
gitHub_link	varchar(200)	YES		NULL	
is_complete	tinyint(1)	NO		NULL	

```
9 rows in set (0.00 sec)
```

SCREEN-SHOT OF THE SYSTEM:





Placement Management System X

localhost:8000/student-profile/

Placement Management System - Student Portal

Job BoardProfileLogout

Profile Details

Name

Atharva Jog

Email

atharvajog2002@gmail.com

Phone

8308188404.0

Short Bio

Hi, This is Atharva Jog.

Your Skills

HTML, CSS, JS, SQL

LinkedIn Link

None

GitHub Link

None

Passport Size Image:

Download

Resume:

Download

Update Details

Placement Management System X

localhost:8000/single-job/6d5825be-5600-413e-82da-6fc1b8b77a8f/

Job Description:

DEVOPS ENGINEER

NETFLIX

A DevOps engineer is responsible for the smooth operation of a company's IT infrastructure. They work with developers to deploy and manage code changes, and with operations staff to ensure that systems are up and running smoothly.

APPLY

Applicants:0

Deadline of application:
2022-12-29

Skills:
kubernetes, Docker

About Company

Netflix Inc (Netflix) provides internet entertainment services for watching movies and television shows. The company offers TV shows and movies such as original series, documentaries, and feature films through an internet subscription on the TV, computer, and mobile devices. It offers DVDs by-mail service in the US.

About Offer

A DevOps engineer is responsible for the smooth operation of a company's IT infrastructure. They work with developers to deploy and manage code changes, and with operations staff to ensure that systems are up and running smoothly.

Link : click [here](#) to go to company's web page.

Placement Management System X


localhost:8000/all-companies/

Placement Management System

HomeCompaniesAbout

Companies


A list of companies where our students are placed 🙌

Apple

Apple Inc. (Apple) designs, manufactures and markets smartphones, personal computers, tablets, wearables and accessories and sells a range of related services. The Company's products include iPhone, Mac, iPad, AirPods, Apple TV, Apple Watch, Beats products, HomePod, iPod touch and accessories.

Panjim, Goa


about

Google


Google LLC (/ ɡuːɡəl / (listen)) is an American multinational technology company focusing on search engine technology, online advertising, cloud computing, computer software, quantum computing, e-commerce, artificial intelligence, and consumer electronics.

Porvorim, Goa

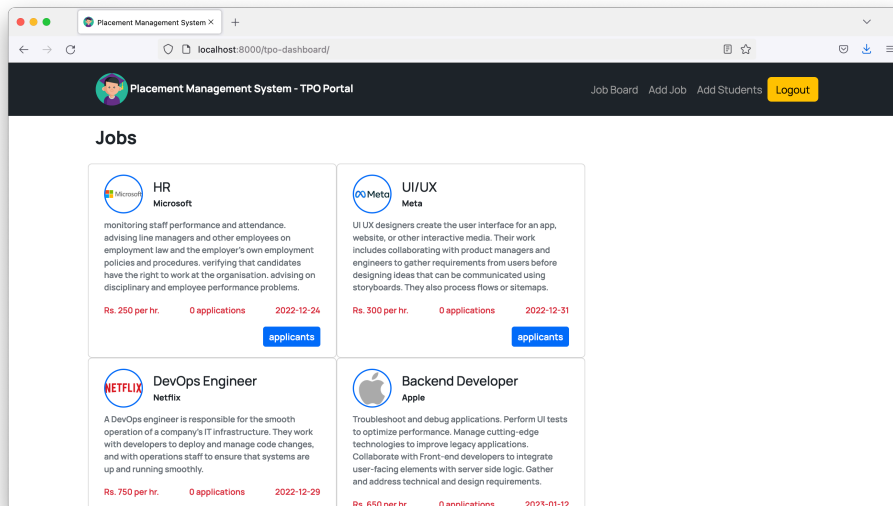
about

Tesla

Tesla Inc (Tesla) is an automotive and energy company. It designs, develops, manufactures, sells, and leases electric vehicles and energy generation

Meta

Meta Platforms Inc (Meta), formerly Facebook Inc, is a provider of social networking, advertising, and business insight solutions. The company, through its



Email screen-shots :

Login Credentials Test Mails x



sarvesh.patkar@tech@gmail.com
to me

The login credentials to access your account are as following.

Email : patharv777@gmail.com

Password : lrbrydnv

← Reply

→ Forward

You Applied to a Company Test Mails x



sarvesh.patkar@tech@gmail.com
to me

You successfully applied for Backend Developer at Apple.
Contact TPO for further details.

← Reply

→ Forward

Regarding Job Application ⌵ Test Mails x



sarve hpatil sarvehpatilartech@gmail.com

to me ▾

Your application for Backend Developer job post was accepted.
Contact TPO for further details.

↩ Reply

➦ Forward

CONCLUSION: The Placement Management System project was implemented successfully.