Mini Project Synopsis

NAME OF THE GUIDE**: Prof. Divakar Jha**

1. Mini Project Topic:

Placement Management System

2. Details of Member:

Roll No.	Class	Division	Name of Student	Mobile Number	Email-ID
29	FYMCA	A	Anchal Maurya	7715085764	anchallsm2000@gmail.com
125	FYMCA	B	Siddhi Santosh Shirke	9076436521	siddhisshirke01@gmail.com

3. Project Overview / Background:

Placement Management System will be a web application that will allow the placement coordinator to handle the common offline work of the placements in an online manner. The project aims to make placement handling work easy for the coordinator. This system can be used to manage the information of students concerning placement.

The main aim of our project is to provide an easy and efficient way to handle on-campus placement-related tasks. Here the coordinator can display the notification of drives according to which the students can apply for the drive.

The main problem that the system aims to solve is the need to frequently take the student data for every drive. The system will register the student data once and further the coordinator can just post about their drive and interested students can apply for it.

4. Need of Work:

The existing system of placement has a lot of manual work to be done like collecting student data when the drives is organized. Maintaing the data and checking for eligibility criteria when a student applies for a company. The proposed system allows the placement coordinator to maintain all the student records at one place by only registering the student once. The student gets to apply for all jobs at one place. It will check for eligibility criteria automatically when the student applies for any company based on skills and grade matching.

5. Objective:

- To provide the facility to efficiently store student data.

- To easily find out the eligible student for the placement.

- To bring the common placement-related work online.

- To provide a user-friendly web application for placement coordinators and students.

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6. Problem Statement:

The existing system is doing all the processes manually. Maintaining and collecting data of students as and when the drives arrives becomes very tedious when there are large number of students. Sorting and checking for eligibility criteria also becomes very difficult when there are large number of applications.All this when carry processes when carried out manually becomes very tedious.

7. Benefits to the surroundings:

- Saves a time of collecting data.

- Students can easily keep track of all placement drives.

- Reduces Human efforts of collecting student data through forms.

- Allows placements coordinated and students to meet their requirements at one place.

8. Project Category:

The project is web based application. The outcome of the project is website using which the placement management can keep track of all the students data related to the placement.

9. Resources:

PyCharm will be used to develop the web application which will include modules as follows:

Modules:

- Register the students.

- Login registered students.

- Post Company Details.

- Automatically allowing only eligible students to apply for drive.

10. Software Requirements:

- o Software Requirement:
- o Programming Languages:
  - Front-end - HTML, CSS & Bootstrap
  - Back-end – Django
- o Code Platform: IDE: PyCharm
- o Database: MySQL
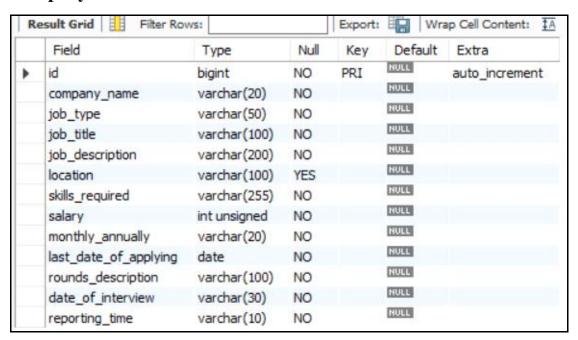
11. Diagrams and Schema:

- **Schema Design:**

Student Table

	Field	Type	Null	Key	Default	Extra
▶	id	bigint	NO	PRI	NULL	auto_increment
	last_login	datetime(6)	YES		NULL	
	is_superuser	tinyint(1)	NO		NULL	
	is_staff	tinyint(1)	NO		NULL	
	is_active	tinyint(1)	NO		NULL	
	date_joined	datetime(6)	NO		NULL	
	first_name	varchar(150)	NO		NULL	
	last_name	varchar(150)	NO		NULL	
	email	varchar(254)	NO	UNI	NULL	
	password	varchar(128)	NO		NULL	
	username	varchar(20)	YES		NULL	

Student Details Table:

	Field	Type	Null	Key	Default	Extra
▶	id	bigint	NO	PRI	NULL	auto_increment
	ssc_percentage	varchar(10)	NO		NULL	
	hsc_percentage	varchar(10)	NO		NULL	
	graduation_semester_1_CGPA_or_percentage	varchar(10)	NO		NULL	
	graduation_semester_2_CGPA_or_percentage	varchar(10)	NO		NULL	
	graduation_semester_3_CGPA_or_percentage	varchar(10)	NO		NULL	
	graduation_semester_4_CGPA_or_percentage	varchar(10)	NO		NULL	
	graduation_semester_5_CGPA_or_percentage	varchar(10)	NO		NULL	
	graduation_semester_6_CGPA_or_percentage	varchar(10)	NO		NULL	
	skills	varchar(200)	NO		NULL	
	upload_cv	varchar(100)	YES		NULL	
	user_id	bigint	NO	UNI	NULL	
	overall_CGPA_or_percentage	varchar(10)	NO		NULL	

Company Details Table:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
company_name	varchar(20)	NO		NULL	
job_type	varchar(50)	NO		NULL	
job_title	varchar(100)	NO		NULL	
job_description	varchar(200)	NO		NULL	
location	varchar(100)	YES		NULL	
skills_required	varchar(255)	NO		NULL	
salary	int unsigned	NO		NULL	
monthly_annually	varchar(20)	NO		NULL	
last_date_of_applying	date	NO		NULL	
rounds_description	varchar(100)	NO		NULL	
date_of_interview	varchar(30)	NO		NULL	
reporting_time	varchar(10)	NO		NULL	

Applied Student Table:

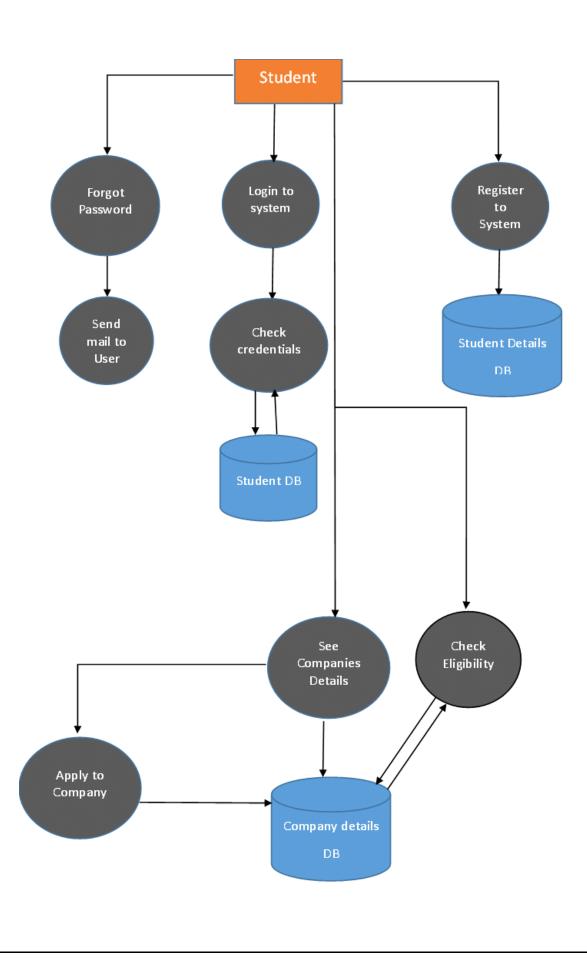| Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
applied_date	date	NO		NULL	
company_id	bigint	NO	MUL	NULL	
user_id	bigint	NO	MUL	NULL	

Admin Data Flow Diagram:

Student Data Flow Diagram:

12. Future Scope:

- Build a mobile application.

- Provide students with interview preparation courses.

- Easily get the notifications regarding all the companies' details provided by Admin.

- To add more features like queries, feedback, comment on query facilities making it User- Friendly.

13. Conclusion:

The application will have benefits of organizing complete training records in a single place. No need of collecting data again & again. Reduces Human efforts. Will allow student to apply for all jobs at one place and updates at one place. This automated process will eventually save a lot of time.