PROJECT ON

PLACEMENT MANAGEMENT SYSTEM

Submitted to-   **Submitted by-**

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Btech CSE AI&ML

Section-A , SEM-IV

INTRODUCTION

The Placement Management System project aims to revolutionize the recruitment landscape by leveraging technology to automate and optimize every stage of the placement process. From job posting and candidate application to selection and onboarding, the PMS offers a comprehensive platform that centralizes recruitment activities, enhances transparency, and facilitates data-driven decision-making.

OBJECTIVE OF THE PROJECT

The objective of a Placement Management System project can vary based on the context and the stakeholders involved. However, here are some common objectives:

1. Efficiency: Streamlining the placement process to make it more efficient for both the recruiters and the candidates. This includes reducing manual paperwork, automating repetitive tasks, and optimizing workflows.
2. Transparency: Providing transparency in the placement process by keeping all stakeholders informed about the status of job openings, applications, and candidate selections. This fosters trust and improves communication between recruiters, candidates, and placement coordinators.
3. Accuracy: Ensuring accurate matching of candidates with job opportunities based on their skills, qualifications, and preferences. This involves implementing advanced algorithms or AI-based systems to enhance the accuracy of candidate-job matches.
4. Data-driven Insights: Gathering and analyzing data related to placements, such as candidate profiles, job requirements, placement trends, and feedback. Using these insights to make informed decisions, improve the placement process, and enhance future recruitment strategies.
5. Integration: Integrating the Placement Management System with other existing systems within the organization, such as HRIS (Human Resource Information System), CRM (Customer Relationship Management), or learning management systems. This facilitates seamless data flow and reduces duplication of efforts.
6. Scalability: Designing the system to be scalable, allowing it to handle a growing number of candidates, job openings, and placement activities without compromising performance or reliability.
7. User Experience: Prioritizing a user-friendly interface for recruiters, candidates, and administrators to interact with the system easily. Providing features such as intuitive navigation, mobile compatibility, and personalized dashboards can enhance the overall user experience.
8. Compliance: Ensuring that the Placement Management System complies with relevant laws, regulations, and organizational policies regarding data privacy, equal employment opportunity, and non-discrimination.

By focusing on these objectives, a Placement Management System project aims to optimize the placement process, enhance stakeholder satisfaction, and achieve better outcomes for both recruiters and candidates.

TABLES STRUCTURE

1. Students:

```
mysql> SELECT * FROM STUDENTS;
+-------------+----------------+------------+---------------+------------------------+--------------+------------+------+------+----------+
| Students_id | name           | s_password | date_of_birth | email                  | phone_number | department | Year | cgpa | backlogs |
+-------------+----------------+------------+---------------+------------------------+--------------+------------+------+------+----------+
|           1 | Ankit Mishra   | ak         | 2002-11-01    | ankitmishra@gmail.com  | 9247857863   | SOET       |    4 | 8.60 |        0 |
|           2 | Ravi Kumar     | rk         | 2002-02-05    | ravikumar@gmail.com    | 9735901842   | SOMC       |    4 | 7.90 |        1 |
|           3 | Maya Singh     | ma         | 2003-06-22    | mayasingh@gmail.com    | 8354769164   | SOET       |    4 | 8.90 |        0 |
|           4 | Aarav Sharma   | as         | 2003-05-09    | aaravsharma@gmail.com  | 8765894762   | SOMS       |    4 | 7.50 |        2 |
|           5 | Ishita Sharma  | is         | 2002-10-18    | ishitasharma@gmail.com | 7834533696   | SOET       |    4 | 9.10 |        0 |
|           6 | Rahul Verma    | rv         | 2001-01-28    | rahulverma@gmail.com   | 9565644504   | SOAS       |    4 | 7.90 |        1 |
|           7 | Sneha Joshi    | sj         | 2002-03-14    | snehajoshi@gmail.com   | 8246343647   | SOET       |    4 | 8.30 |        1 |
|           8 | Ankit Patel    | ap         | 2001-08-12    | ankitpatel@gmail.com   | 9332454718   | SMAS       |    4 | 9.20 |        0 |
+-------------+----------------+------------+---------------+------------------------+--------------+------------+------+------+----------+
8 rows in set (0.00 sec)
```

2. Administrators

```
mysql> SELECT * FROM ADMINISTRATORS;
+----------+------------------+------------+-------------------------+--------------+------------+
| admin_id | name             | a_password | email                   | phone_number | department |
+----------+------------------+------------+-------------------------+--------------+------------+
|     1001 | DR. Anant Shukla | admin_as   | anantshukla@gmail.com   | 9265789465   | SOET       |
|     1002 | DR. Surbhi Yadav | admin_sy   | surbhiyadav@gmail.com   | 9860182007   | SOMC       |
|     1003 | Rajesh Kumar     | admin_rk   | rajeshkumar@gmail.com   | 8532435646   | SOET       |
|     1004 | Suman Sharma     | admin_ss   | sumansharma@gmail.com   | 8500213564   | SOAS       |
|     1005 | Pooja Agarwal    | admin_pa   | poojaagarwal@gmail.com  | 9264254807   | SOET       |
+----------+------------------+------------+-------------------------+--------------+------------+
5 rows in set (0.00 sec)
```

3. Recruiters

```
mysql> SELECT * FROM RECRUITERS;
+-------------+------------------+------------+--------------+-------------------------+--------------+
| recruiter_id | name            | r_password | company_name | email                   | phone_number |
+-------------+------------------+------------+--------------+-------------------------+--------------+
|        2001 | Mr. Ranveer Roy  | r_rr       | Flipcart     | ranveerroy@gmail.com    | 8625476354   |
|        2002 | Ms. Anita Mishra | r_am       | Swiggy       | anitamishra@gmail.com   | 7356301568   |
|        2003 | Mr. Rohit Kumar  | r_rk       | InnovateLtd  | rohitkumar@gmail.com    | 7432460126   |
|        2004 | Ms. Priya Sharma | r_ps       | WebWorks     | priyasharma@gmail.com   | 8120247653   |
|        2005 | Ms. Kiran Rao    | r_kr       | CodeCraft    | kiranrao@gmail.com      | 9365457328   |
+-------------+------------------+------------+--------------+-------------------------+--------------+
5 rows in set (0.00 sec)
```

4. Jobs

```
mysql> SELECT * FROM JOBS;
+--------+--------------------+------------------------------------------+-------------+-------------+-------------+-------------+
| job_id | job_title          | job_description                          | job_category| last_date_to| recruiter_id| Students_id |
+--------+--------------------+------------------------------------------+-------------+-------------+-------------+-------------+
|      1 | Software Developer | Develop and maintain software applications.| IT        | 2024-06-01  |        2001 |           1 |
|      2 | Network Engineer   | Manage and maintain network infrastructure.| IT        | 2024-06-10  |        2002 |           2 |
|      3 | Data Analyst       | Analyze and interpret complex data sets. | IT          | 2024-06-15  |        2001 |           3 |
|      4 | Mechanical Engineer| Design and develop mechanical systems.   | Engineering | 2024-06-20  |        2003 |           4 |
|      5 | Electrical Engineer| Design and maintain electrical systems.  | Engineering | 2024-06-25  |        2004 |           5 |
|      6 | Product Manager    | Oversee product development and launch.  | Management  | 2024-07-05  |        2005 |           6 |
|      7 | Civil Engineer     | Plan and oversee construction projects.  | Engineering | 2024-07-15  |        2003 |           4 |
+--------+--------------------+------------------------------------------+-------------+-------------+-------------+-------------+
7 rows in set (0.00 sec)
```

5. Applications

```
mysql> SELECT * FROM APPLICATIONS;
+----------------+-------------+--------+------------------------------------------+----------+
| application_id | Students_id | job_id | resume_url                               | status   |
+----------------+-------------+--------+------------------------------------------+----------+
|              1 |           1 |      1 | http://updated_example.com/resume1.pdf   | Selected |
|              2 |           2 |      1 | http://example.com/resume2.pdf           | Pending  |
|              3 |           3 |      3 | http://example.com/resume3.pdf           | Rejected |
|              4 |           4 |      6 | http://example.com/modified_resume4.pdf  | Selected |
+----------------+-------------+--------+------------------------------------------+----------+
4 rows in set (0.00 sec)
```

6. Interviews

```
mysql> SELECT * FROM INTERVIEWS;
+--------------+--------+--------------+----------------+---------+-------------+
| interview_id | job_id | recruiter_id | interview_date | result  | Students_id |
+--------------+--------+--------------+----------------+---------+-------------+
|            1 |      1 |         2001 | 2024-06-15     | Pending |           1 |
|            2 |      1 |         2001 | 2024-06-18     | Pending |           2 |
|            4 |      6 |         2005 | 2024-08-10     | Pending |           4 |
+--------------+--------+--------------+----------------+---------+-------------+
3 rows in set (0.00 sec)
```

OUTPUTS

- ## **MAIN WINDOW**
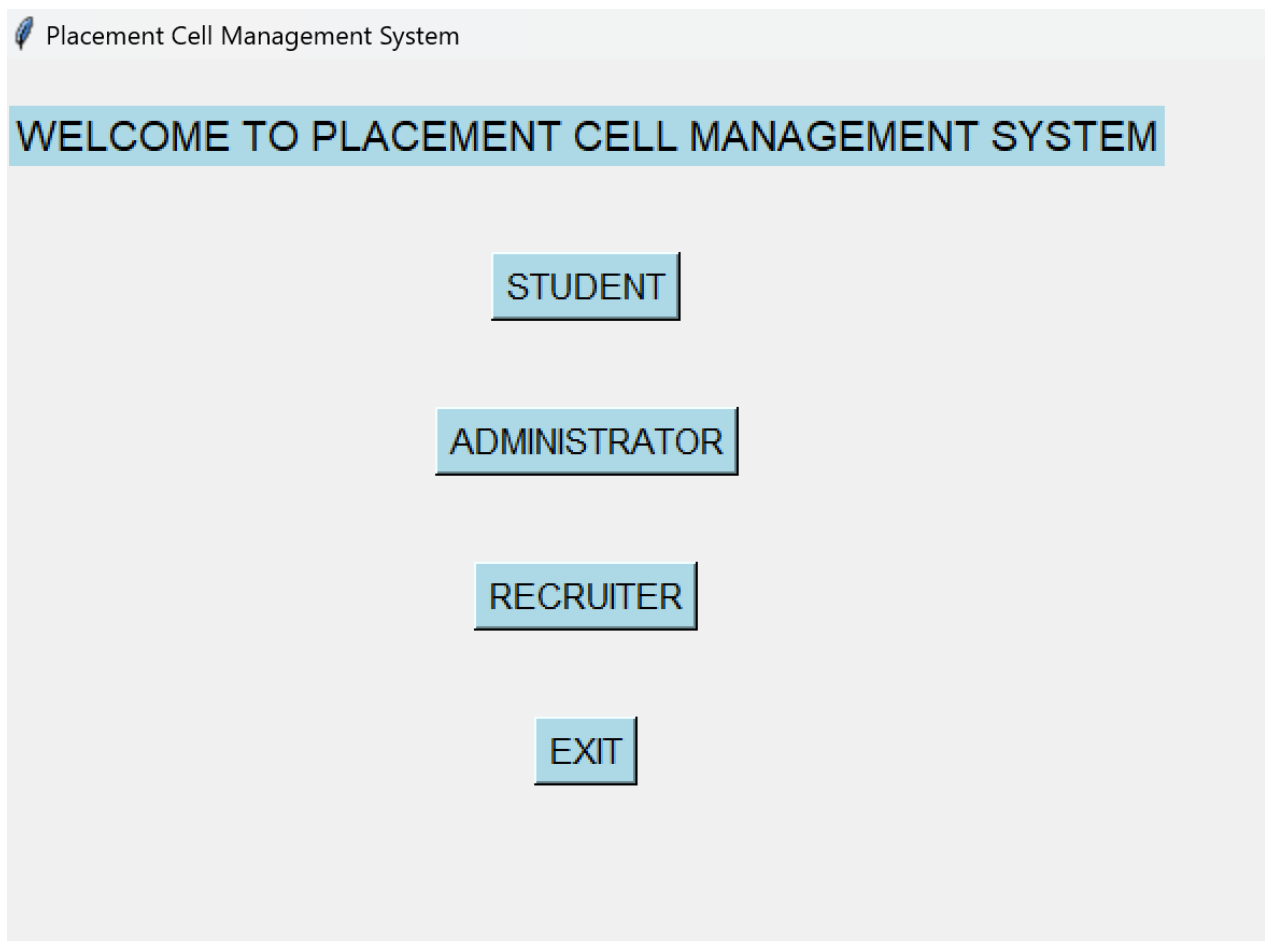
● ADMINISTRATOR

LOGIN PAGE -

ADMIN MENU –

Add Job

Update Job

Placement Cell Management System

ADD JOB

JOB_ID
7

JOB_TITLE
Civil Engineer

JOB_DESCRIPTION
construction projects.

JOB_CATEGORY
Engineering

LAST_DATE_TO
2024-06-25

RECRUITER_ID
2005

STUDENTS_ID
4

Save Job

BACK

Success ×

ⓘ Job added successfully

OK

Placement Cell Management System

MODIFY JOB

ENTER JOB ID:
7

JOB TITLE
Civil Engineer

JOB DESCRIPTION
construction projects.

JOB CATEGORY
Engineering

LAST DATE TO
2024-07-15

RECRUITER ID
2003

STUDENTS ID
4

Update Job

BACK

Success ×

ⓘ Job updated successfully

OK

● RECRUITER

LOGIN PAGE -

RECRUITER MENU –

Modify Application Status

Placement Cell Management System

MODIFY APPLICATION STATUS

ENTER APPLICATION ID:

1

NEW STATUS:

Selected

Update Status

BACK

Success ✕

ℹ Status updated successfully.

OK

Insert Interview Details

Placement Cell Management System

INSERT INTERVIEW DETAILS

INTERVIEW ID

3

JOB ID

3

RECRUITER ID

2001

INTERVIEW DATE (YYYY-MM-DD)

2024-07-25

RESULT

Pending

Save Interview Details
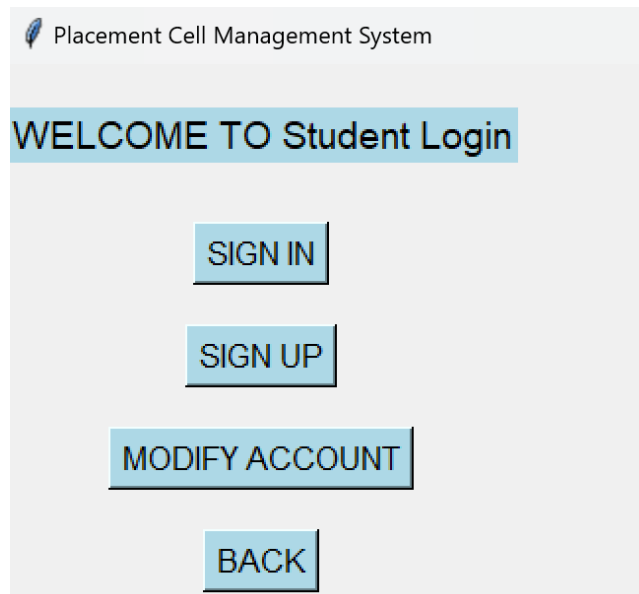
BACK

Success ✕

ℹ Interview details added successfully

OK

● STUDENT

LOGIN PAGE -

Placement Cell Management System

WELCOME TO Student Login
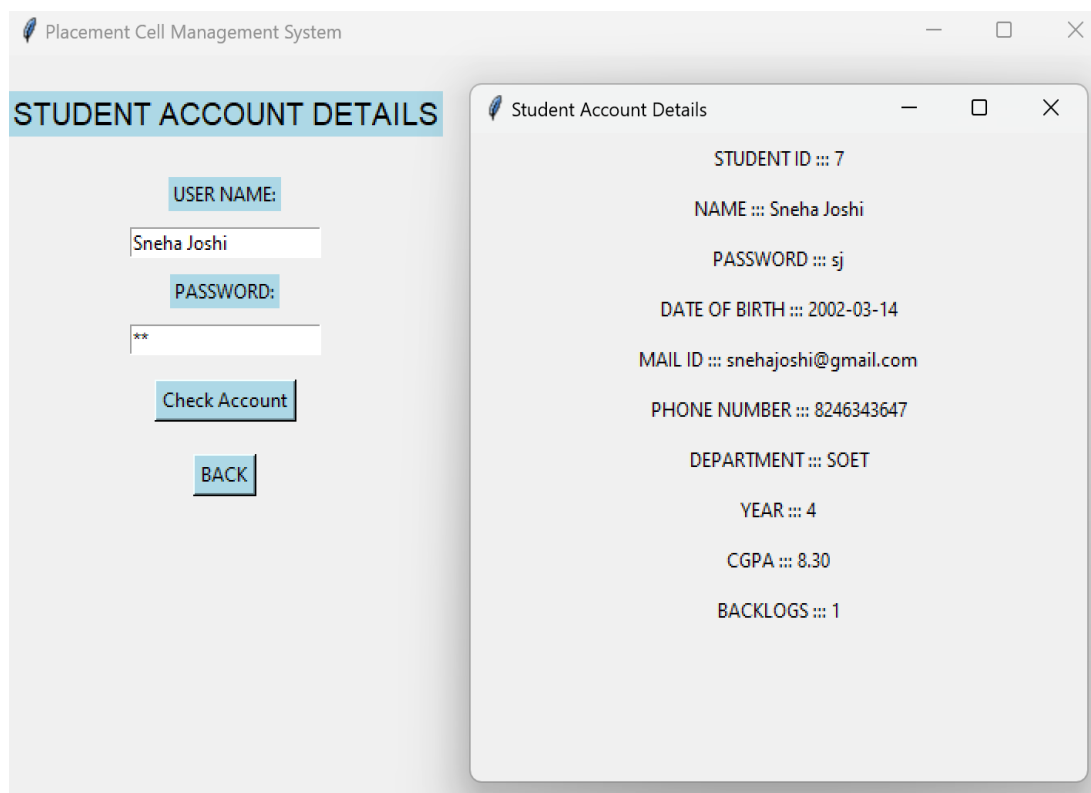
SIGN IN

SIGN UP

MODIFY ACCOUNT

BACK

Modify Account

Placement Cell Management System

STUDENT ACCOUNT DETAILS

USER NAME:

Sneha Joshi

PASSWORD:

**

Check Account

BACK

Student Account Details

STUDENT ID ::: 7

NAME ::: Sneha Joshi

PASSWORD ::: sj

DATE OF BIRTH ::: 2002-03-14

MAIL ID ::: snehajoshi@gmail.com

PHONE NUMBER ::: 8246343647

DEPARTMENT ::: SOET

YEAR ::: 4

CGPA ::: 8.30

BACKLOGS ::: 1

Sign Up

Sign In

STUDENT MENU –

Placement Cell Management System

STUDENT MAIN MENU

SEARCH JOBS

APPLY FOR JOBS

MODIFY APPLICATION

SHOW STATUS OF THE APPLICATION

SHOW INTERVIEW DETAILS

BACK

To Search For Jobs

To Apply For Jobs

Placement Cell Management System

Available Jobs

Job ID: 1
Job Title: Software Developer
Job Description: Develop and maintain software applications.
Job Category: IT
Last Date to Apply: 2024-06-01
Recruiter ID: 2001

Job ID: 2
Job Title: Network Engineer
Job Description: Manage and maintain network infrastructure.
Job Category: IT
Last Date to Apply: 2024-06-10
Recruiter ID: 2002

Job ID: 3
Job Title: Data Analyst
Job Description: Analyze and interpret complex data sets.
Job Category: IT
Last Date to Apply: 2024-06-15
Recruiter ID: 2001

Job ID: 4
Job Title: Mechanical Engineer
Job Description: Design and develop mechanical systems.
Job Category: Engineering
Last Date to Apply: 2024-06-20
Recruiter ID: 2003

Placement Cell Management System

Enter Job ID:

6

Resume URL:

http://example.com/re

Submit

BACK

Success   ✕

ℹ   Application submitted successfully!

OK

To Modify the Application

To Check Status of the Application

To View Interview Details

XXXXXXXX