PYTHONE PROJECT

College Placement Management System

Team Member:



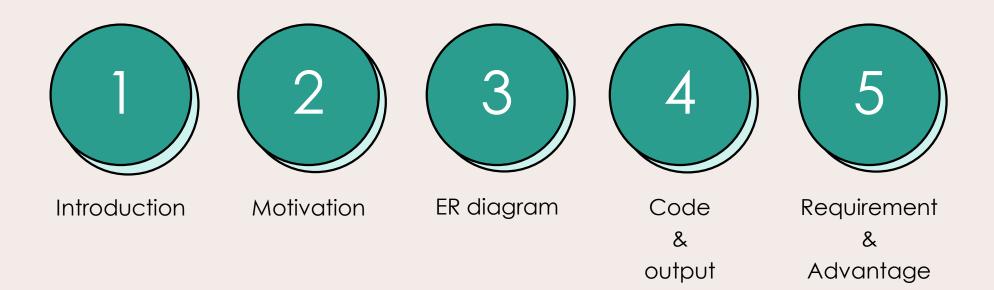
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Agenda

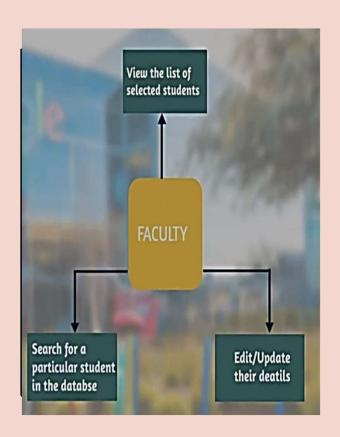


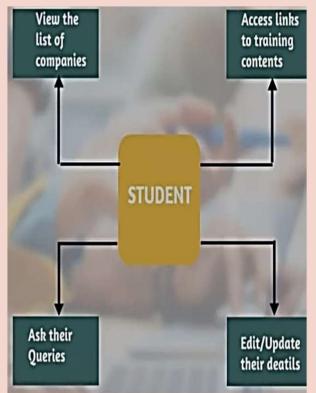
Introduction

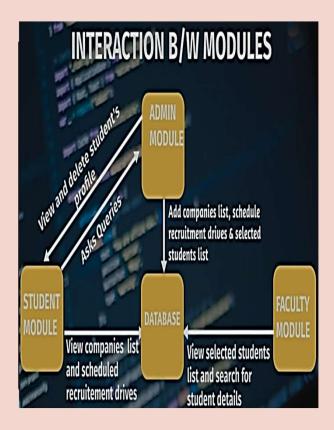
- ☐ The project aims to automate the process of placement management system and make the process of recruitment easier.
- ☐ It provides a platform where it allows the students to view the companies that are currently recruiting and also provides information on the companies and the packages they offer so that the students may view and assess their opportunities.
- ☐ It helps the company to find the eligible candidates according to their criteria. There are mainly 3 modules in this system:
- 1.Student Module
- 2. Faculty Module
- 3.Admin Module



Relation B/W Modules

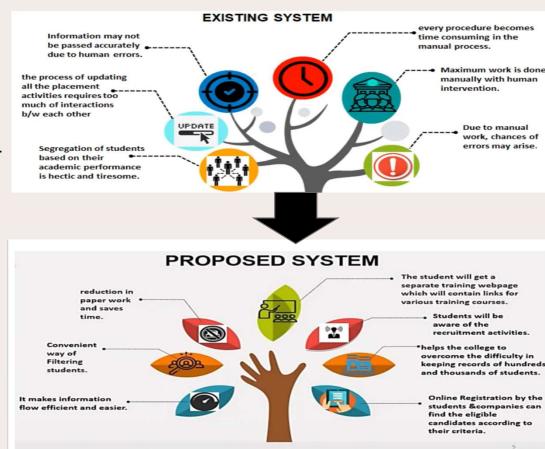




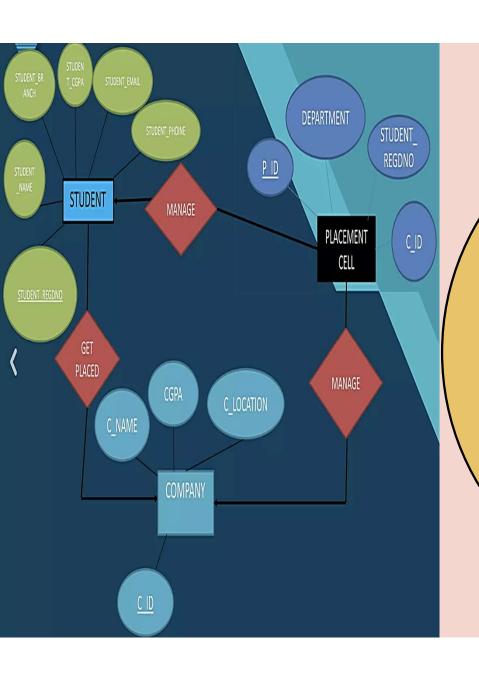


MOTIVATION

- ☐ The institute's industrial image is enhanced by placements.
- At times it becomes tedious to manage student data while keeping track of various interested companies.
- During several parallel placements, miscommunication or loss of notifications is quite common that creates a poor impression of either the organization or on their faculties.
- ☐ To resolve these problems, a smart management system is required to maintain accurate data records, placement scheduling, student notifications to stay tuned and track the placements.



5 — Presentation title — 20XX



ER Diagrarepresentsm

This ER (Entity Relationship) Diagram the model of College Placement Management System Entity. The entity-relationship diagram of College Placement Management System shows all the visual instrument of database tables and the relations between Students, Company etc. It used structure data and to define the relationships between structured data groups of College Placement Management System functionalities. The main entities of the College Placement Management System are Students, Company, and Placement Cell.



Code

```
class CollegePlacementSystem:
  def init (self):
    self.students = {}
    self.jobs = {}
  def add_student(self, student_id, name, skills):
     self.students[student_id] = {'name': name, 'skills': skills, 'placement': None}
  def add job(self, job id, title, required skills):
     self.jobs[job id] = {'title': title, 'required skills': required skills, 'filled': False}
  def display_students(self):
     print("\nStudents:")
     for student id, details in self.students.items():
       print(f"{student id}: {details['name']} - Skills: {details['skills']} - Placement:
{details['placement']}")
  def display_jobs(self):
     print("\nJobs:")
    for job id, details in self.jobs.items():
       status = "Filled" if details['filled'] else "Available"
       print(f"{job id}: {details['title']} - Required Skills: {details['required skills']} - Status:
{status}")
  def match_students_to_jobs(self):
     for job id, job details in self.jobs.items():
       if not job details['filled']:
          for student_id, student_details in self.students.items():
            if not student details['placement'] and
set(job_details['required_skills']).issubset(set(student_details['skills'])):
```

```
# Match found
              student details['placement'] = job details['title']
              job details['filled'] = True
              break
  def run_placement_system(self):
    # Sample data
    self.add student(1, 'John', ['Python', 'Java', 'C++'])
    self.add student(2, 'Alice', ['Java', 'JavaScript'])
    self.add student(3, 'Bob', ['Python', 'C#'])
    self.add_job(101, 'Software Developer', ['Python', 'Java'])
    self.add job(102, 'Web Developer', ['JavaScript', 'HTML', 'CSS'])
    self.add job(103, 'Data Analyst', ['Python', 'SQL'])
    # Display initial state
    self.display_students()
    self.display_jobs()
    # Match students to jobs
    self.match students to jobs()
    # Display final state
    print("\nPlacement Results:")
    self.display_students()
    self.display jobs()
if name == " main ":
  placement system = CollegePlacementSystem()
```

placement_system.run_placement_system()



Students:

1: John - Skills: ['Python', 'Java', 'C++'] - Placement: None

2: Alice - Skills: ['Java', 'JavaScript'] - Placement: None

3: Bob - Skills: ['Python', 'C#'] - Placement: None

Jobs:

101: Software Developer - Required Skills: ['Python', 'Java'] - Status: Available

102: Web Developer - Required Skills: ['JavaScript', 'HTML', 'CSS'] - Status: Available

103: Data Analyst - Required Skills: ['Python', 'SQL'] - Status: Available

Placement Results:

Students:

1: John - Skills: ['Python', 'Java', 'C++'] - Placement: Software Developer

2: Alice - Skills: ['Java', 'JavaScript'] - Placement: None

3: Bob - Skills: ['Python', 'C#'] - Placement: None

Jobs:

101: Software Developer - Required Skills: ['Python', 'Java'] - Status: Filled

102: Web Developer - Required Skills: ['JavaScript', 'HTML', 'CSS'] - Status: Available

103: Data Analyst - Required Skills: ['Python', 'SQL'] - Status: Available





Requirement

Software requirement

- > Laptop or pc
- Python
- Sublime text editor
- Xamp server

Hardware requirement

- > Laptop or pc
- Windows7 or high
- 13 processor system or higher
- 4gb ram

