

*** Database Management System Lab (CS3120)**

PROJECT REPORT

Topic

Career Development Cell (CDC)
Portal

Team

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CONTRIBUTION

Devansh Singh Rathore (111701011)

- User Requirements, ER Diagram, Schema Creation, insert data, created views and authorization, functions and procedures

Himanshu Jain (111701013)

- User Requirements, Database Schema, Schema Creation, insert data, created views and authorization, functions and procedures

Sakshi Rathore (111701026)

- User Requirements, Schema Diagram, Schema Creation, insert data, created views and authorization, functions and procedures

USER REQUIREMENTS

USERS →

1. Student
2. CDC Administrator
 - a. Student Administrators
 - b. Training and Placement Officer (TPO)
3. Companies / Professors seeking research interns
4. Database Administrator (DBA)

FUNCTIONALITIES →

1. STUDENT

- a. Login / Register
- b. Change Password
- c. Reset Password
- d. Update profile
- e. If logged in for the first time then ask to fill the details for resume creation
- f. View Resume
- g. Ask for access to edit resume
- h. And if accessed then option to edit the resume
- i. Send Resume for verification
- j. Get notification if verified
- k. View Internship profiles
- l. Apply for an (Internship / Placement) application

- m. View applied (Internship / Placement) applications
- n. Send / Receive notifications to / from students representatives
- o. Receive notifications from TPO

2. CDC ADMINISTRATOR

a. STUDENT/STAFF ADMINISTRATORS

- i. Login
- ii. Change Password
- iii. Reset Password
- iv. Update profile
- v. View the details of all the students in cdc
- vi. Verify the resume and send notification if completed
- vii. Give access to edit the resume
- viii. Mail after giving access to respective student
- ix. Block / Unblock a student
- x. Send notifications to all the students eligible for applying for placement / internship to a company along with the details of the company.
- xi. Send notifications to the students selected for their next round of internship / placement along with the necessary details.
- xii. Send / Receive notifications to / from students
- xiii. Send / Receive notifications to / from TPO

b. TPO

- i. Login
- ii. Change Password
- iii. Reset Password
- iv. Update the student details
- v. Update company records

- vi. Make student representative accounts
- vii. Block / Unblock any of the other type of user
- viii. Accept company's invitation
- ix. Send / Receive notifications to / from student representatives
- x. Send company(internship / placement) offer details to students
- xi. Send notifications to selected students(or student representatives) about the next round / interview details
- xii. Send final details of selected students to companies
- xiii. Add a company for internship/placement
- xiv. Add user representatives and create an account for them

3. COMPANIES / PROFESSORS SEEKING RESEARCH INTERNS

- a. Register or Login (once registration is accepted by TPO)
- b. Update profile
- c. Change Password
- d. Reset Password
- e. Send and Update types of internship / placement that the company is willing to offer to TPO
- f. Receive and View the details of received resume for internship / placement
- g. Send the details of selected students (for next round / interview) to TPO along with the necessary details (for conducting next round).
- h. Send the offer letter for the selected student to TPO.

4. DATABASE ADMINISTRATOR (DBA)

- a. Add column to any table in the database
- b. Add or give access to TPO
- c. Manages the whole database and its relations

DATABASE DESIGN

DATABASE SCHEMA →

- student(student_id,name,mail_id,passapplicability,admission_year,verified,tenth_percen,tenth_school,tenth_board,twelth_percen,twelth_school,twelth_board,admission_cat,branch,jee_rank,dob,nationality,contact,address,stream)
- grades(student_id,sem1,sem2,sem3,sem4,sem5,sem6,sem7,sem8,cgpa)
- project(student_id,title,description,start_date,end_date)
- electives(student_id,course_id,title)
- technical_skills(student_id,title,description)
- extracurricular(student_id,title,description)
- por(student_id,description,start_date,end_date)
- student_rep(student_rep_id,student_id,pass)
- tpo(tpo_id,pass,name)
- company(company_id,name,pass,location,about)
- company_req(applicaton_id,company_id,required_skills,eligibility,eligible_disciplines,vacancies,stipend,start_date,end_date,deadline)
- applied(student_id,company_id,type,status,semester,core)
- selected(student_id,company_id,semester,type,core)
- notifications(message_id,not_from,not_to)
- staff_rep (staff_id, pass)

SCHEMA DIAGRAM→

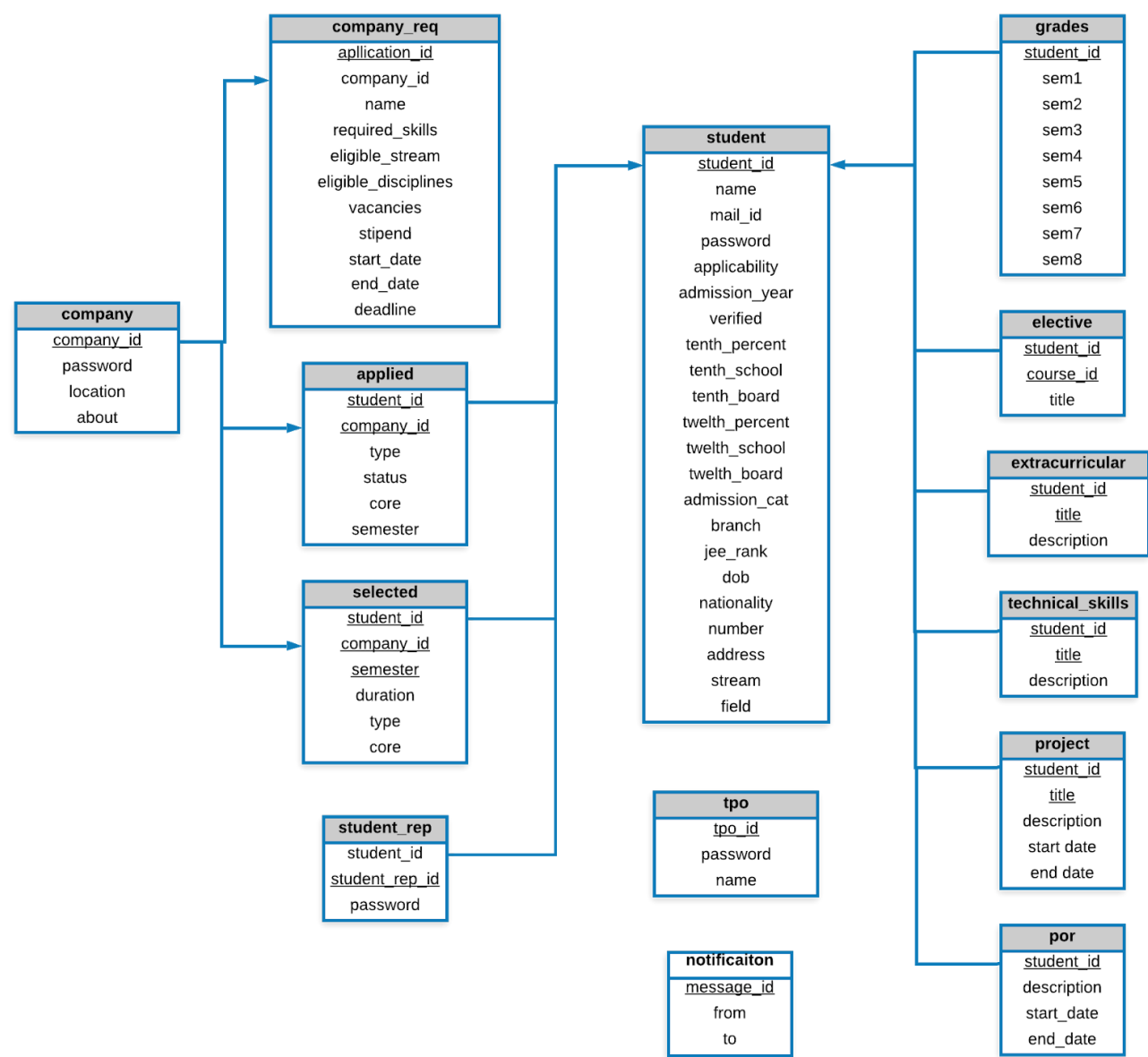


Fig4.0: Schema Diagram

ER DIAGRAM →

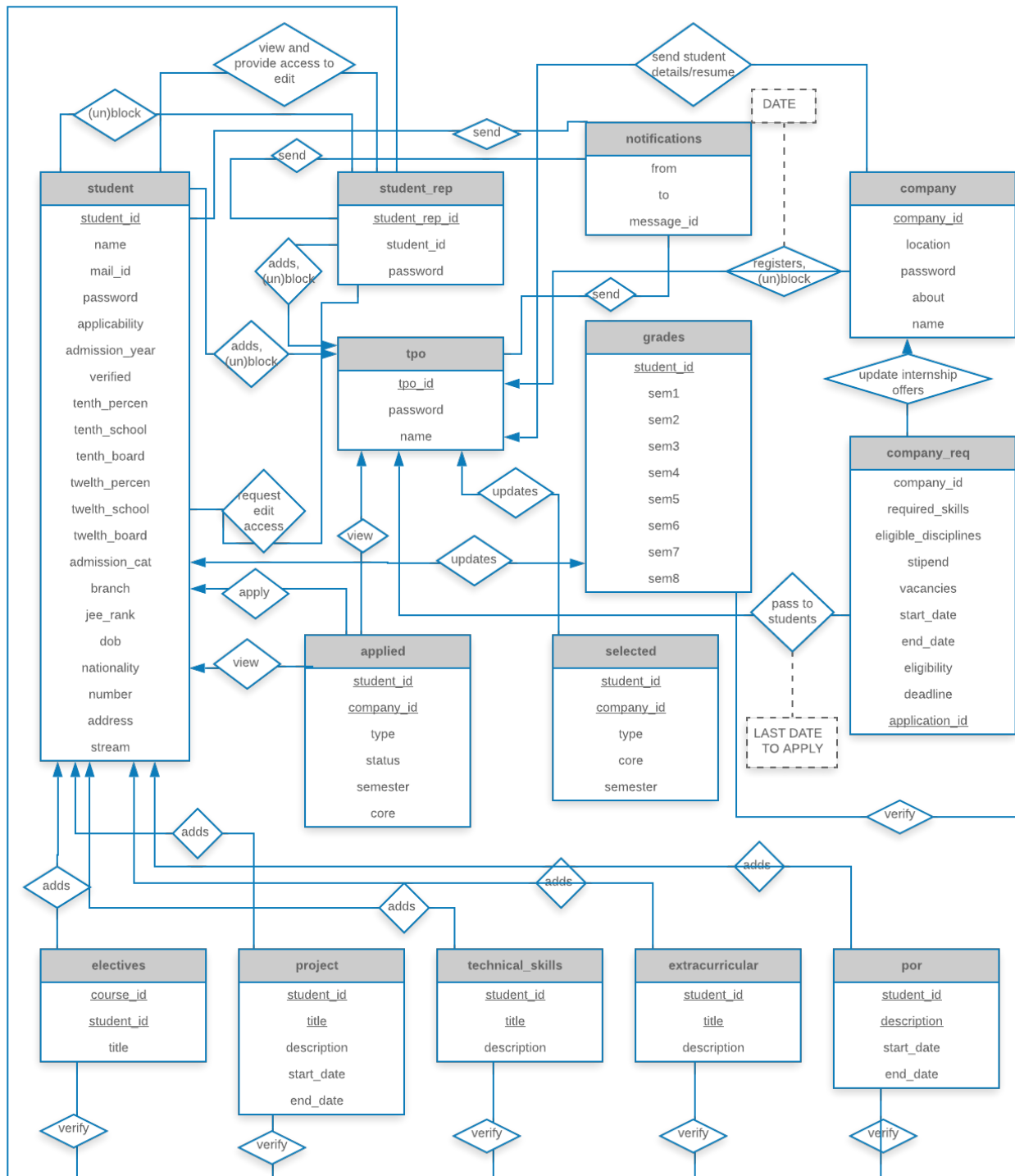


Fig4.1: Entity Relation Diagram

