

Database Management System Lab (CS3120)

PROJECT REPORT

Topic

Career Development Cell (CDC)
Portal

Team

Devansh Singh Rathore (111701011)
Himanshu Jain (111701013)
Sakshi Rathore (111701026)

Professor

Dr. Mrinal Kanti Das
Dr. Sahely Bhadra

Mentor

Rekha Raj CT

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CONTRIBUTION

Devansh Singh Rathore (111701011)

- User Requirements, ER Diagram, Schema Creation

Himanshu Jain (111701013)

- User Requirements, Database Schema, Schema Creation

Sakshi Rathore (111701026)

- User Requirements, Schema Diagram, Schema Creation

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→

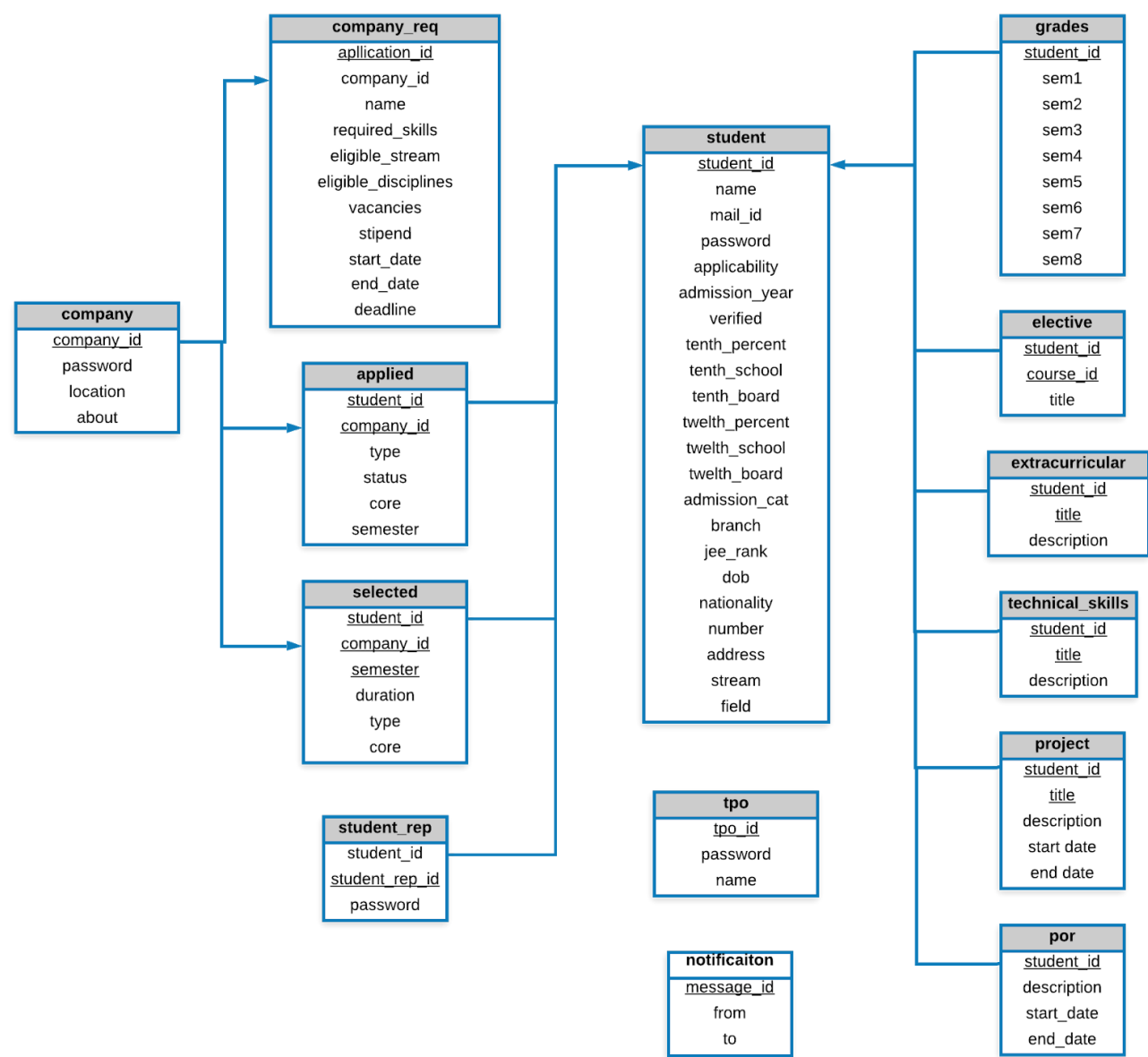


Fig4.0: Schema Diagram

ER DIAGRAM →

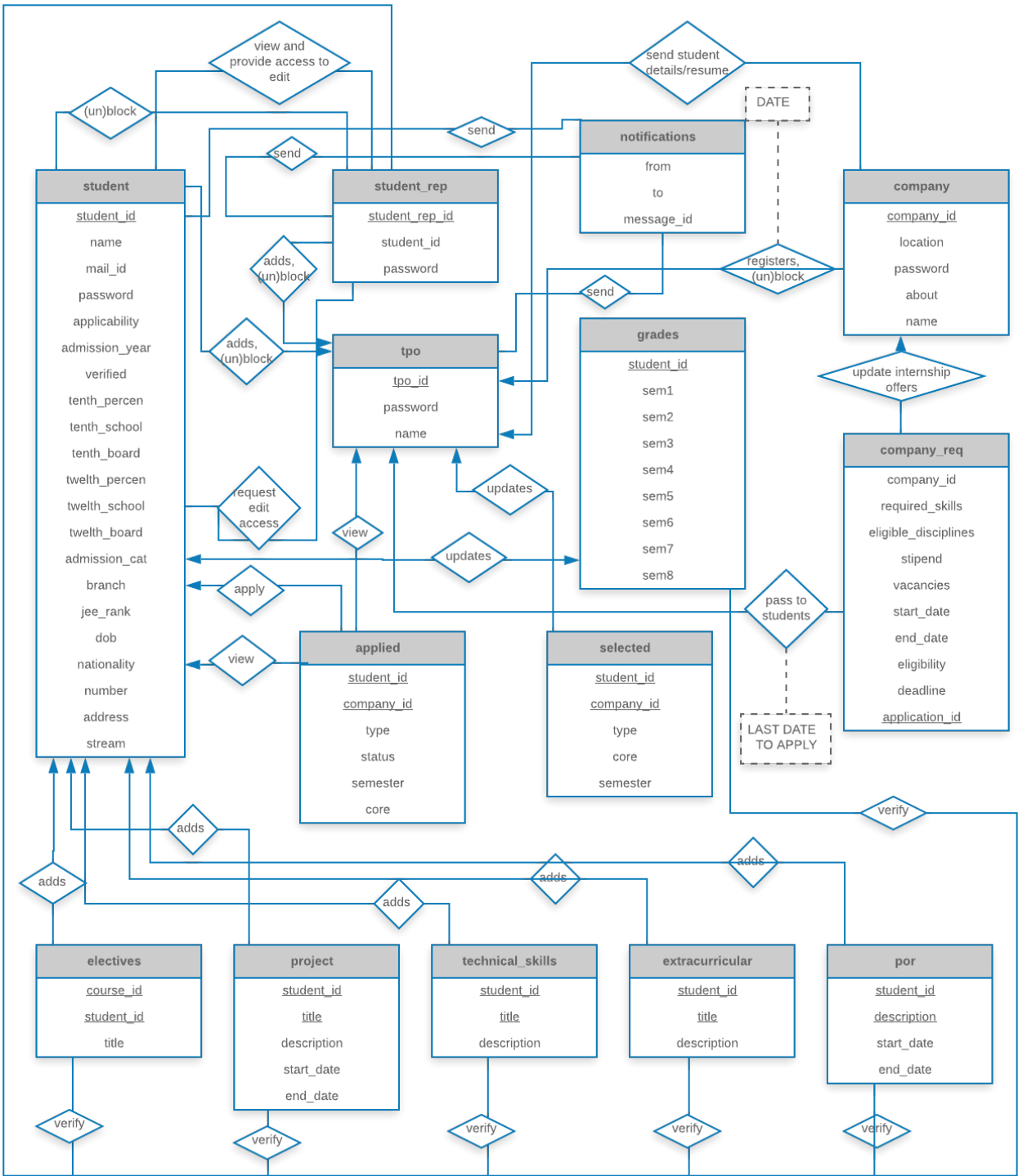


Fig4.1: Entity Relation Diagram

