CDC PORTAL DESIGN

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Overview:

The project will try to mimic the CDC(Career Development Cell) portal of a typical university.

Our DBMS project mainly contains three types of users.

- For Student
- For Company
- For Admin/Head of CDC

Requirement Analysis:

Student:

The student should be able to do the following functions on the cdc portal:

- The student should be able to add/update/read his/her information on portal.
- The student should able make request to admin to verify his/her information and once the verification is done he/she will not be able to edit his/her information.
- The verified students should be able to read the job description and company's profile on the portal.
- The verified students should be able to apply for the companies which are active and can also drop for the company if he applied and still the deadline is not reached.
- The verified student can track all the companies which he applied.

Company:

The company representative should be able to do the following functions:

- The representative of the company should be able to add/update/read the company's information and job description on portal.
- The company should be able to request the admin to get verified.

Tpo:

The tpo should be able to do the following functions:

- Can block/unblock a student
- Admin can verify the student or company requests.
- Admin act as mediator between student and company and vice versa.
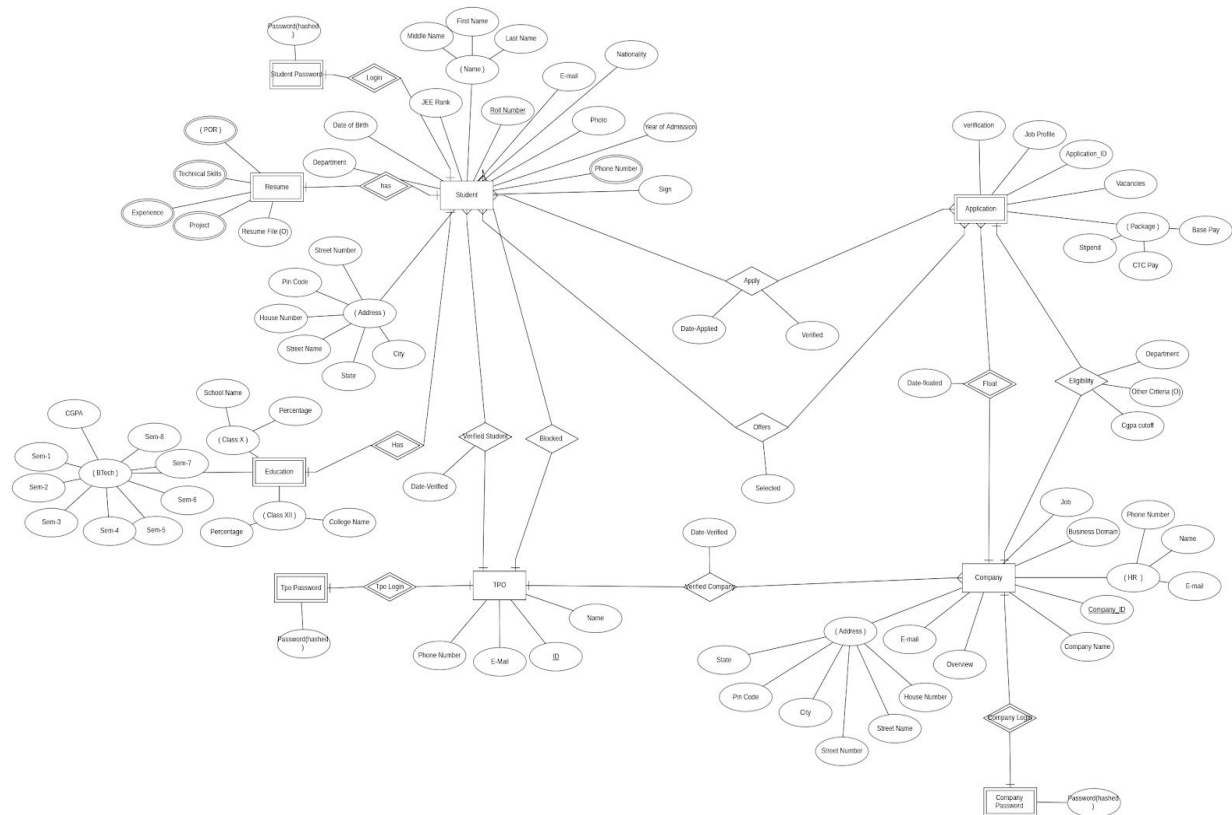
Database Administrator:

The database administrator should be able to following function:

- Can perform CRUD(Create, Read, Update, Delete)operations on student and company databases which are mentioned via portal .
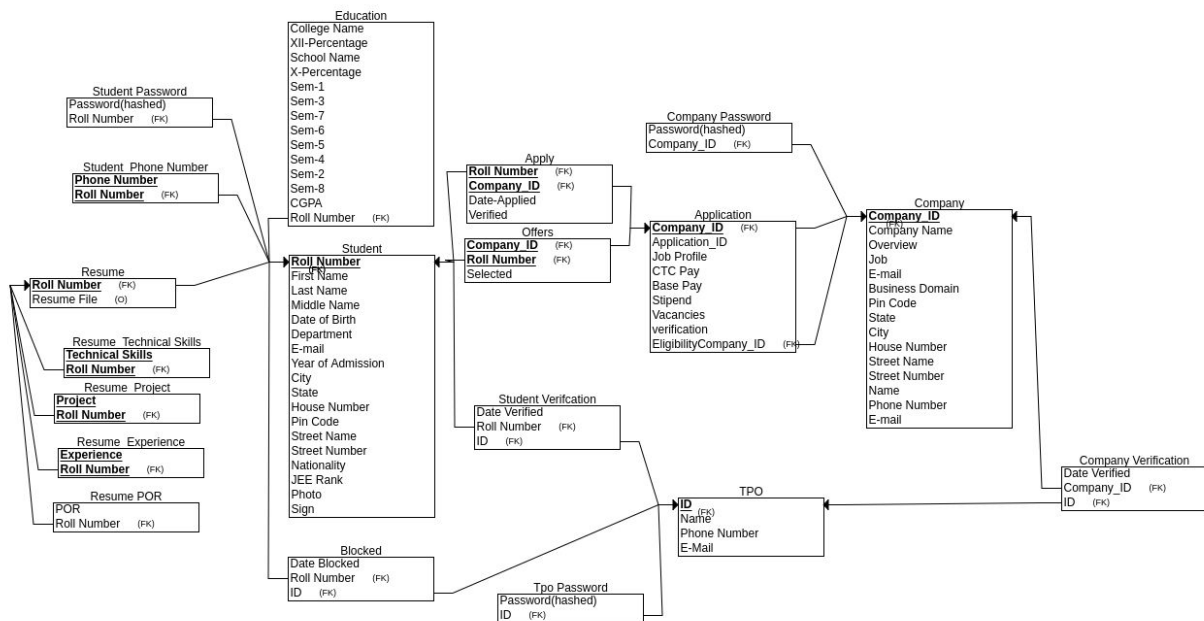- Has access to entire database.

Students , company and tpo has the respective login pages and once they logged-in can perform the respective functions.

Note: The functions mentioned may be increased/modified as the project progresses.

Entity-Relationship Diagram(Developer's View):

Schema Diagram(Developer's View):

Education
- College Name
- XII-Percentage
- School Name
- X-Percentage
- Sem-1
- Sem-3
- Sem-7
- Sem-6
- Sem-5
- Sem-4
- Sem-2
- Sem-8
- CGPA
- Roll Number   (FK)

Student Password
- Password(hashed)
- Roll Number   (FK)

Student Phone Number
- **Phone Number**
- **Roll Number**   (FK)

Resume
- **Roll Number**   (FK)
- Resume File   (O)

Resume Technical Skills
- **Technical Skills**
- **Roll Number**   (FK)

Resume Project
- **Project**
- **Roll Number**   (FK)

Resume Experience
- **Experience**
- **Roll Number**   (FK)

Resume POR
- POR
- Roll Number   (FK)

Student
- **Roll Number**
- First Name
- Last Name
- Middle Name
- Date of Birth
- Department
- E-mail
- Year of Admission
- City
- State
- House Number
- Pin Code
- Street Name
- Street Number
- Nationality
- JEE Rank
- Photo
- Sign

Apply
- **Roll Number**   (FK)
- **Company_ID**   (FK)
- Date-Applied
- Verified

Offers
- **Company_ID**   (FK)
- **Roll Number**   (FK)
- Selected

Application
- **Company_ID**   (FK)
- Application_ID
- Job Profile
- CTC Pay
- Base Pay
- Stipend
- Vacancies
- verification
- EligibilityCompany_ID   (FK)

Company Password
- Password(hashed)
- Company_ID   (FK)

Company
- **Company_ID**
- Company Name
- Overview
- Job
- E-mail
- Business Domain
- Pin Code
- State
- City
- House Number
- Street Name
- Street Number
- Name
- Phone Number
- E-mail

Student Verifcation
- Date Verified
- Roll Number   (FK)
- ID   (FK)

TPO
- **ID**   (FK)
- Name
- Phone Number
- E-Mail

Company Verification
- Date Verified
- Company_ID   (FK)
- ID   (FK)

Blocked
- Date Blocked
- Roll Number   (FK)
- ID   (FK)

Tpo Password
- Password(hashed)
- ID   (FK)

DataBase Schema (Developer's View):

Student Table

Roll Number - Varchar(10) PRIMARY KEY

First Name - Varchar(30)

Last Name - Varchar(30)

Middle Name - Varchar(30)

Date of Birth - Varchar(10) (DD-MM-YYYY)

Department - Varchar(30)

E-mail - Varchar(30)

Year of Admission - Varchar(30)

City - Varchar(30)

State-Varchar(30)

House Number -Varchar(30)

Pincode -Varchar(30)

Street Name - Varchar(30)

Street Number - Varchar(30)

JEE Rank - INT

PHOTO - BLOB

SiGN - BLOB

Student Password Table

Roll Number - Varchar(10) foreign key primary key

Password(hashed) - Varchar(30)

Student Phone Number

Roll Number - Varchar(10) foreign key

Phone Number - Varchar(10)

Primary Key - (Roll Number, Phone Number)

Resume

Roll Number - Varchar(10) foreign key primary key

Resume File - BLOB (optional attribute)

Resume Technical Skills Table

Technical skills - varchar(100)

Roll Number - Varchar(10) foreign key primary key (Technical skills, Roll Number)

Resume Project Table

Project - varchar(100)

Roll Number - Varchar(10) foreign key primary key - (Project, Roll Number)

Resume Experience Table

Project - varchar(100)

Roll Number - Varchar(10) foreign key primary key - (Project, Roll Number)

Resume POR Table

Project - varchar(100)

Roll Number - Varchar(10) foreign key primary key -(Project, Roll Number)

Education Table

College Name - Varchar(30)

XII-Percentage - FLOAT

X - Percentage - FLOAT

Sem1 - FLOAT

Sem2 - FLOAT

Sem3 - FLOAT

Sem4 - FLOAT

Sem5 - FLOAT

Sem6 - FLOAT

Sem7 - FLOAT

Sem8 - FLOAT

CGPA-FLOAT

Roll Number - Varchar(10) foreign key primary key

Blocked Table

Date Blocked - Varchar(10) (DD-MM-YYYY)

Roll Number - Varchar(10) foreign key

ID - Varchar(10) foreign key,

Primary key - (Roll Number, ID)

Company Table

Company Name - Varchar(30)

Overview - Varchar(100)

Job - Varchar(100)

E-mail - Varchar(30)

Year of Admission - Varchar(30)

City - Varchar(30)

State-Varchar(30)

House Number -Varchar(30)

Pincode -Varchar(30)

Street Name - Varchar(30)

Street Number - Varchar(30)

Business Domain - Varchar(100)

Name - Varchar(100)

Phone Number - Varchar(10)

Company_ID - Varchar(10) primary key

Company Verification Table :

Date Verified : Varchar(10) (DD-MM-YYYY)

Company_ID : Varchar(10) foreign Key

ID : Varchar(10) foreign Key

TPO Table :

ID : Varchar(10) primary key

Name : Varchar(30)

Phone Number : Varchar(10)

E-mail :: Varchar(30)

Apply Table :

Roll Number : Varchar(10) foreign key

Company_ID : Varchar(10) foreign key

Date-Applied : Varchar(10) (DD-MM-YYYY)

Verified : Varchar(10)

Student Verification Table:

Date verified : Varchar(10) (DD-MM-YYYY)

Roll Number : Varchar(10) foreign key

ID - foriegn key : Varchar(10) foreign key

Application Table

Application_ID - Varchar(10)

Job Profile - Varchar(10)

CTC Pay - INT

Base Pay - INT

Stipend - INT

Vacancies - INT

Verification - Varchar(10)

Eligibility Comapny_ID - Varchar(10)

Company Password Table

Comapny_ID - Varchar(10) foreign key primary key

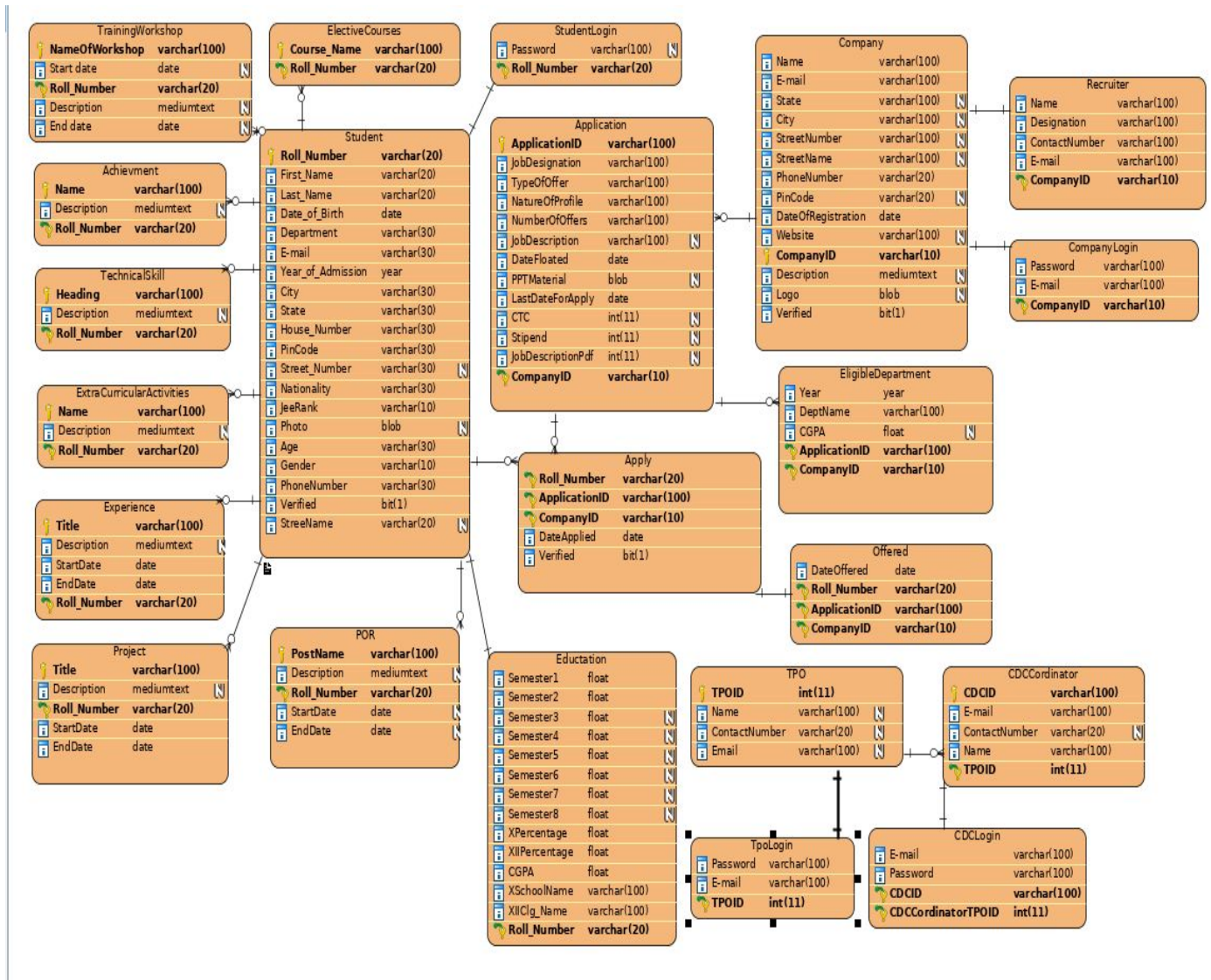Password(hashed) - Varchar(30)

Offers Table

Comapny_ID foreign key

Roll Number foreign key

Selected - Varchar(10)

Primary key (Comany_ID, Roll Number)

Updated Schema Diagram(Developer's View):

Tables of CDC database:

```
MariaDB [cdc]> show tables;
+--------------------------+
| Tables_in_cdc            |
+--------------------------+
| Achievment               |
| Application              |
| Apply                    |
| CDCCordinator            |
| CDCLogin                 |
| Company                  |
| CompanyLogin             |
| Eductation               |
| ElectiveCourses          |
| EligibleDepartment       |
| Experience               |
| ExtraCurricularActivities |
| Offered                  |
| POR                      |
| Project                  |
| Recruiter                |
| Student                  |
| StudentLogin             |
| TPO                      |
| TechnicalSkill           |
| TpoLogin                 |
| TrainingWorkshop         |
+--------------------------+
22 rows in set (0.001 sec)
```

Project github link:

https://github.com/sahul343/DBMS-PROJECT

The data added is in cdc_schema.sql and the schema creation is in cdc.ddl and the image is in cdc_schema.png