DBMS Project

Problem statement

Design a database for the purpose of applying for recruitment for companies via the university

Objective

The objective of this project is to create a user-friendly environment to smoothly carry out the hiring process of college students for different companies

Technologies Used:

* MySQL
* React
* Heroku/Netlify

Functionalities

* First of all, there will be 2 user modes available: Admin and Student
* After signing up, the user will be asked to enter the basic details, like name, mobile number, email-id etc
* The students participating in the hiring process will have to enter their academic details, contact details and upload various documents
* The admin has to verify all the details entered by the student. After the profile is verified, students can apply for any available companies
* For the recruiter side, the company can add different eligibility criteria for the students, example CGPA > 7.5 or only core Computer Science students are eligible
* The students who have applied for company can also see the job profile, their profile verification status and their current status of a company (shortlisted, selected for next round, rejected)
* After a student has received a final offer, they will automatically be removed from the hiring process

Schemas:

**STUDENT** = (mis, full\_name, gender, dob, branch)

**ADMIN** = (id, name, email, mobile, branch)

**CREDENTIALS** = (admin\_id, password)

**COMPANIES** = (company\_id, company\_name, 10th\_critera, 12th\_criteria, cgpa\_criteria)

**JOB\_PROFILE** = (mis, company\_id, company, eligibility, verification\_status, application\_status)

**CONTACT** = (mis, branch, email, mobile\_number, address, hometown, emergency\_contact)

**ACADEMICS** = (mis, sgpa, cgpa, ongoing\_backlogs, year\_of\_study, percent)

**PAST\_EDUCATION** = (mis, grade, year, percent, examination, upload\_marksheet)

**RESUME** = (mis, upload\_resume, year)

**STUDENT\_CREDENTIALS** = (student\_id, password)

**FUNCTIONAL DEPENDENCIES**

* In schema **ADMIN**, ID→ {Email, Mobile, Name, Branch}, → Here, ID can determine values of fields Name, Mobile, Branch, Email hence a Functional dependency
* No functional Dependency for **CREDENTIALS** and **STUDENT\_CREDENTIALS** Schema
* In Schemas **CONTACT**, **ACADEMICS**, **RESUME**, **PAST\_EDUCATION**, **STUDENT** the MIS field determines values of all the other attributes of the given schemas respectively. Hence a functional dependency
* In Schema **JOB PROFILE**, (Company\_id , MIS) can determine values of other attributes/fields of this Schema, hence a functional dependency