

PROJECT PROPOSAL

GROUP PROJECT: CAREERX

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1. Project Details

1.1 Project Name

CareerX

1.2 Members and Roles

Gutierrez Carballo Marcelo	- Project manager
Madaga Sankeerthana	- Frontend developer
Mandalapu Sruthi	- Backend developer
Shaik Imran Mohammad	- Database designer

All members will contribute to the role of query development as we aim to gain experience working with databases. Additionally, we acknowledge that some roles may have a heavier workload, and in such cases, tasks will be distributed among all available members to ensure balanced participation.

1.3 Problem Statement

Our goal is to create the ideal job bulletin board for Company X. Given the current job board designs, we aim to develop an efficient and visually appealing interface for students to review jobs and internships offered by the company.

Since all job and internship information cannot be directly written into the front-end design, we intend to address data distribution and confidentiality concerns by implementing a well-designed database and scripts for efficient database calls.

1.4 Requirements and Target Use

Our target audience includes both companies that will purchase and utilize our product for their hiring processes, as well as students, particularly those with zero or little experience who may struggle to compete in the open job market due to high competition. The platform aims to provide these students with better access to job and internship opportunities.

The database will be administered by the company's HR department in collaboration with their IT specialist. The IT specialist will be responsible for populating the database with job and internship listings based on seasonal openings. Additionally, the IT specialist will manage user accounts, ensuring that they can be restored if deleted accidentally or in other unforeseen situations.

2. List of Relations

Relation 1: Admin

Attributes: adminId (primary key), name, last name, email, phone, address, companyId (foreign key)

Relation 2: Company

Attributes: companyId (primary key), name, email, phone, address

Relation 3: Student

Attributes: studentId (primary key), name, last name, email, phone, address, resume, portfolio, jobsApplied (list of internship/jobs ID applied)

Relation 4: Internship

Attributes: internshipId (primary key), name, email, phone, address, companyId (foreign key), createdBy (reference to adminId), membersApplied (list of studentId who applied)

Relation 5: Jobs

Attributes: jobId (primary key), name, email, phone, address, companyId (foreign key), createdBy (reference to adminId), membersApplied (list of studentId who applied)

Additional possible relations that are still under discussion:

Job application

Attributes: applicationId (primary key), studentId (foreign key), jobId (foreign key), dateApplied

Internship application

Attributes: applicationId (primary key), studentId (foreign key), internshipId (foreign key), dateApplied

Company review

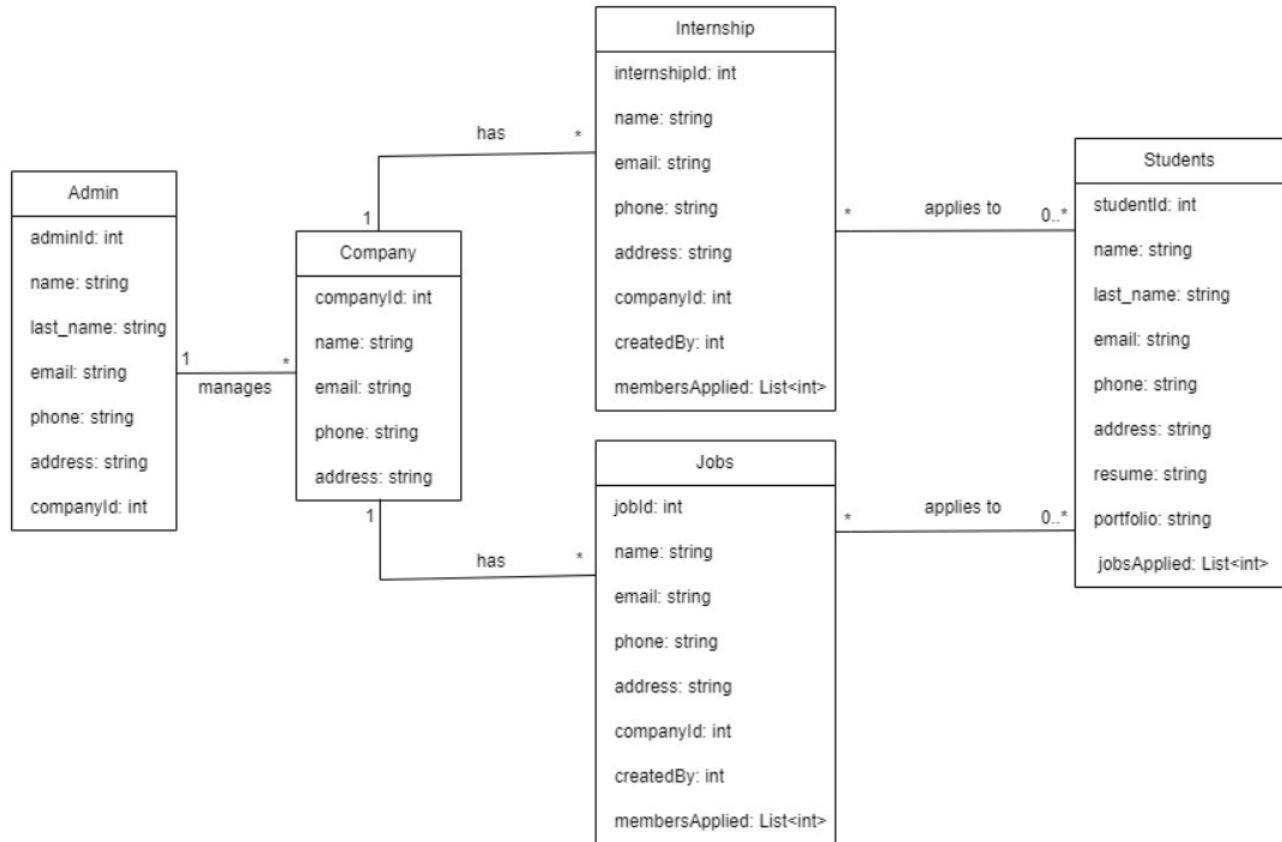
Attributes: reviewId (primary key), studentId (foreign key), companyId (foreign key), rating, reviewText

Announcement

Attributes: announcementId (primary key), createdBy (reference to adminId), recipient (reference to studentId), context (reference to jobId/internshipId), announcementText

Class Diagram

The following class diagram provides a general overview of our plans for designing the main relationships in our database.



3. Data

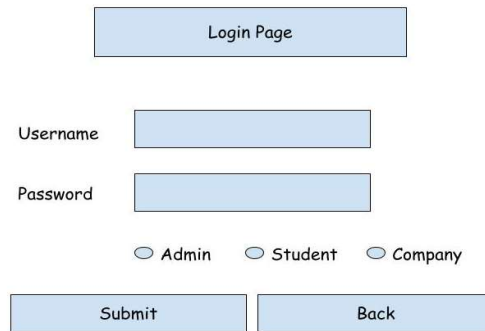
Initially, we will populate the database ourselves to gain a clear understanding of how each component of the database is used and functions within the system. As the project progresses, we may explore the option of populating the database with open-source material that simulates the job market of a particular company. This will help reflect the diversity of roles, departments, and career paths within a company, taking into account the variety of job types and different academic majors that students might pursue.

4. Interface

Login Page

Login: Login page is composed of Username and Password fields, based on the User type: Admin/Student/Company the page redirects to the respective dashboard.

- Username: Input Field (type "text")
- Password: Input Field (type "password")
- Admin/Student/Company: Input Field (type "radio")
- Submit/Back: Input Field (type "submit")

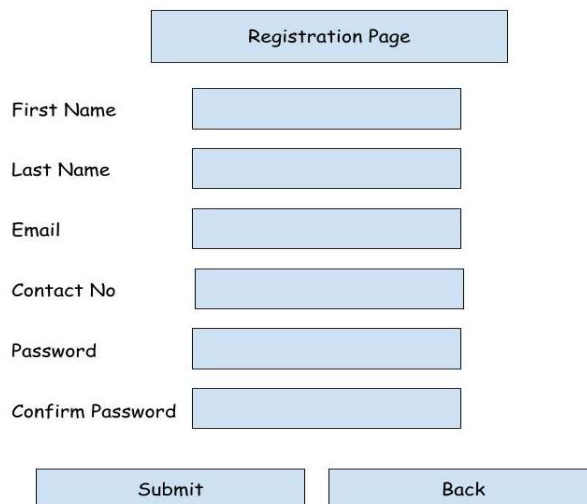


The Login Page UI mockup consists of a title box labeled "Login Page". Below it are two input fields: "Username" and "Password". Under the "Password" field are three radio buttons labeled "Admin", "Student", and "Company". At the bottom are two buttons: "Submit" and "Back".

Registration Page

Registration: Registration page allows the user to create an account for the application portal, it asks for the user's basic details and password, for confirming the registration.

- First Name/Last Name: Textbox (type "text")
- Email: Input Field (type "email")
- Contact Number: Input field (type "tel")
- Password/Confirm Password: Input field (type "password")
- Submit/Back: Input field (type "submit")

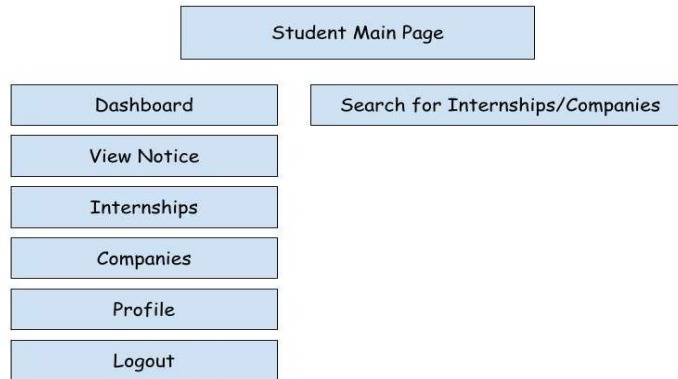


The Registration Page UI mockup features a title box labeled "Registration Page". It includes six input fields: "First Name", "Last Name", "Email", "Contact No", "Password", and "Confirm Password". At the bottom are two buttons: "Submit" and "Back".

Student – Main Page

Student Main Page: Student dashboard is enclosed with functionality like: "view notifications, to access Internships, view Companies, edit (or) view the user profile".

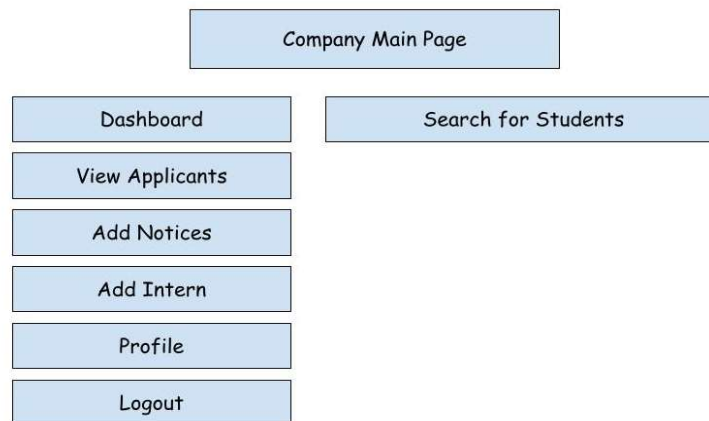
- View Notice: Check the notifications (View and Delete Operations)
- Internships: View all the updated interns (View and Apply Operations)
- Companies: Shows list of companies (View list of Jobs under the provided Companies)
- Profile: Check User's Profile
- Search: Input field (type "text")



Company – Main Page

Company Main Page: Company dashboard is enclosed with functionality like: “view list of applicants, add notifications, add new internships, edit (or) view user profile”.

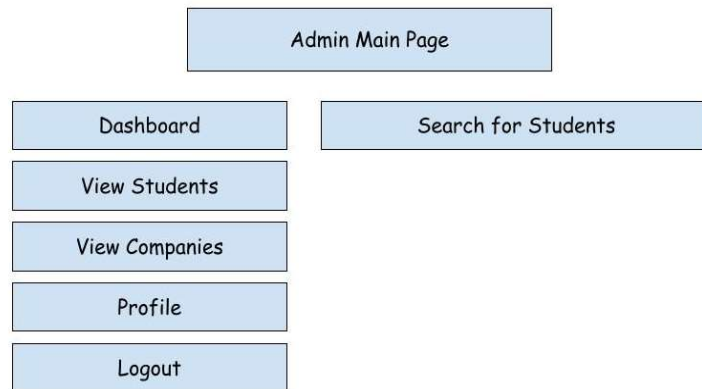
- View Applicants: Look through the students list applied for job positions (View the list)
- Add Notices: Add notifications (Add and Delete Operation)
- Add Intern: Add new internships (Add, Update and Delete Operations)
- Profile: Check User’s Profile
- Search: Input field (type “text”)



Admin – Main Page

Admin Main Page: Admin Dashboard is enclosed with functionality like: “view students list, view companies list, edit (or) view user profile”.

- View Students: View all students (View Operation)
- View Companies: View all companies (View Operation)
- Profile: Check User’s Profile
- Search: Input field (type “text”)



Student – Profile Page

Student Profile: Student profile page enables the student to access basic details like “First Name, Last Name ...” and allows in updating the details using the “Update” button. Students can update the password by using the “Update New Password” button.

- First Name/Last Name/Student ID/Department: Input field (type=“text”)
- Date of Birth: Input field (type=“date”)
- Email: Input field (type=“email”)
- Contact Number: Input field (type=“tel”)
- Update/Update New Password: Input field (type=“submit”)

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graph TD; StudentProfilePage[Student Profile Page] --> First Name[First Name]; StudentProfilePage --> Last Name[Last Name]; StudentProfilePage --> Student ID[Student ID]; StudentProfilePage --> Date of Birth[Date of Birth]; StudentProfilePage --> Email[Email]; StudentProfilePage --> Contact No[Contact No]; StudentProfilePage --> Department[Department]; StudentProfilePage --> Update[Update]; StudentProfilePage --> UpdateNewPassword[Update New Password];
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The diagram shows the 'Student Profile Page' form. It includes input fields for 'First Name', 'Last Name', 'Student ID', 'Date of Birth', 'Email', 'Contact No', and 'Department'. At the bottom, there are two buttons: 'Update' and 'Update New Password'.