ERD DIAGRAM

**Career Compass ERD**

A diagram of a computer

Description automatically generated

**Users**

**user\_id** PK  
email  
password  
role (Student, Recruiter, Admin, Career Counselor)

**Students**

**student\_id** PK, FK (user\_id)  
first\_name  
last\_name  
skills  
resume (optional)

**Recruiters**

**recruiter\_id** PK, FK (user\_id)  
company\_name

|  |
| --- |
| **Counselor**  **counselor\_id PK** |
| **specialization** |
| **session\_id** |
| **student\_id** |
| **session\_date** |
| **notes** |

**Jobs/Positions**

**position\_id** PK  
**recruiter\_id** FK (recruiters)  
title  
description  
requirements  
location  
application\_deadline

**Applications**

**application\_id** PK  
**student\_id** FK (students)  
**position\_id** FK (jobs)  
application\_date  
status (Submitted, Under Review, Interview, Offered, Rejected)

**Notifications**

**notification\_id** PK  
**user\_id** FK (users)  
message  
timestamp  
status (Read/Unread)

**Admin Moderation**

**admin\_id** PK, FK (users)  
action\_taken  
timestamp

**Feedback**

**feedback\_id** PK  
**application\_id** FK (applications)  
**recruiter\_id** FK (recruiters)  
comments  
rating

* **Users** have a **one-to-one** relationship with **Students, Recruiters, and Career Counselors** (each user has only one role).
* **Recruiters** have a **one-to-many** relationship with **Jobs** (a recruiter can post multiple job listings, but each job is tied to one recruiter).
* **Students** have a **many-to-many** relationship with **Jobs** (handled via the Applications table, as students can apply to multiple jobs and each job can have multiple applicants).
* **Applications** have a **many-to-one** relationship with **Jobs** (each application is tied to one specific job, but a job can have many applications).
* **Applications** have a **many-to-one** relationship with **Students** (each application belongs to one student, but students can submit multiple applications).
* **Users** have a **one-to-many** relationship with **Notifications** (each user can receive multiple notifications).
* **Admins** have a **one-to-many** relationship with **Job Postings** (admins can moderate multiple job postings).
* **Career Counselors** have a **one-to-many** relationship with **Feedback** (counselors can provide feedback on multiple applications).