

CSE-5335 Web Data Management

URM APPLICATION

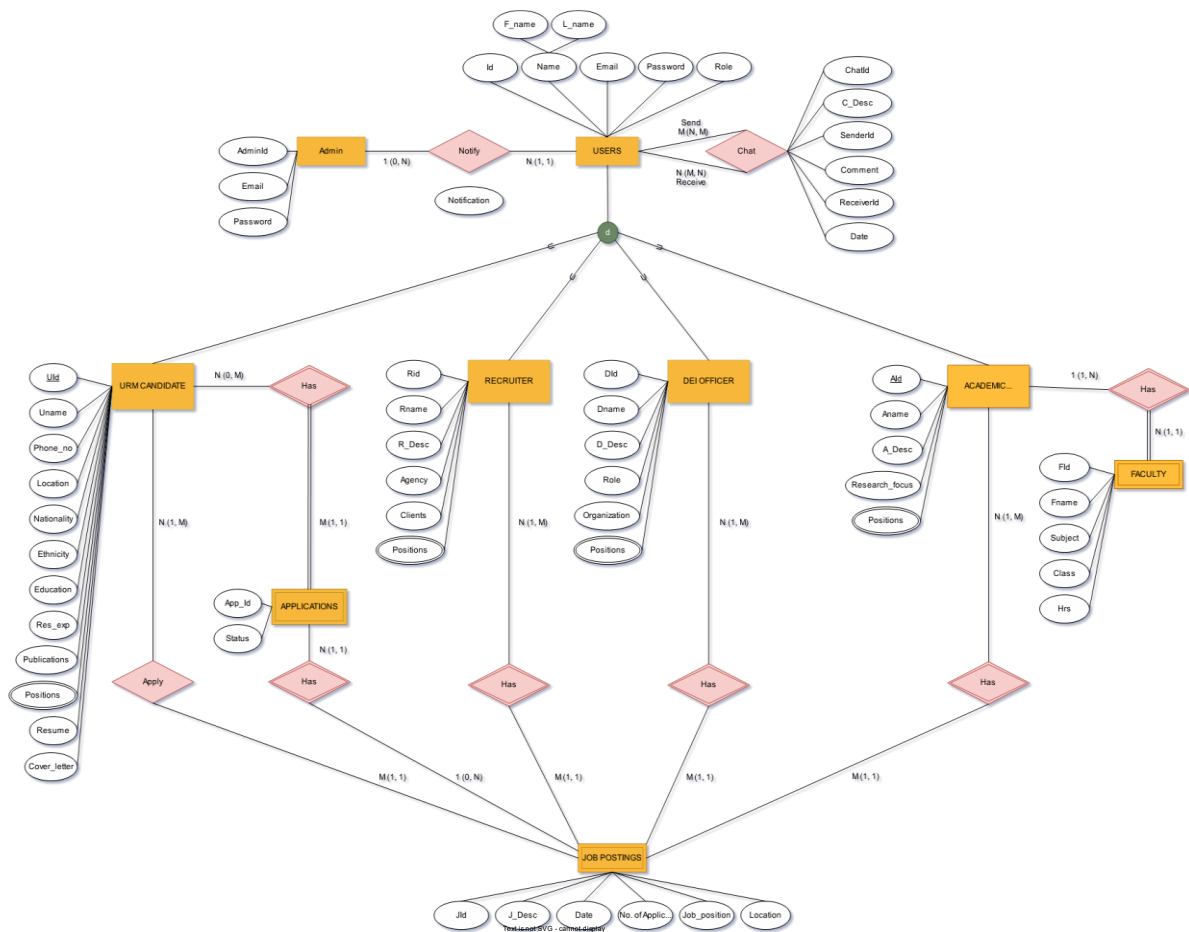
ER Diagram

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The ER Diagram for this project's database design involve a total of 9 Entities and 9 relations between them named as below:

https://drive.google.com/file/d/1qp_9bBgC-8VnWGwVtzkB20Emd98s0gTr/view?usp=sharing



Entities:

- **Admin (Strong entity):** Admin is a strong entity because it is independent from other entities. Other entities will not impact admin.
- **Users (Strong entity):** Users are a strong entity because it is independent from other entities. Other entities will not impact users.
- **URM Candidate (Strong entity):** URM Candidates are a strong entity because it is independent from other entities. Other entities will not impact URM Candidates.
- **Applications (Weak entity):** Applications are considered a weak entity as it is dependent on URM Candidates. Only when URM Candidates submit job applications corresponding applications are created.
- **Recruiter (Strong entity):** Recruiters are a strong entity because it is independent from other entities. Other entities will not impact Recruiters.
- **DEI Officer (Strong entity):** DEI Officers are a strong entity because it is independent from other entities. Other entities will not impact DEI Officers.
- **Academic Institution (Strong entity):** Academic Institution are a strong entity because it is independent from other entities. Other entities will not impact Academic Institution.
- **Faculty (Weak entity):** The faculty is considered a weak entity as it relies on the presence of an academic institution. Faculty exists only when there is an accompanying academic institution.
- **Job Postings (Weak entity):** The dependency of job postings on the DEI Officer, recruiters, and academic institution classifies them as a weak entity. Jobs become available in job postings when these entities post them.

Relations:

- Notify (Admin – Users)
- Chat (Users – Users)
- Apply (URM Candidate – Job postings)
- Has (URM Candidate – Applications)
- Has (Applications – Job postings)
- Has (Recruiter – Job postings)
- Has (DEI officer – Job postings)
- Has (Academic Institution – Job postings)
- Has (Academic Institution – Faculty)

We have also provided the cardinality between entities in the project report document.