

ApliTrack

Progress Report EERD (Enhanced Entity Relationship Diagram)

This project is the result of a collaborative effort with two other team members.

Data Base Management Systems

October 12, 2023

Below is a list of key assumptions corresponding to the attached EERD:

Assumption #1: If an admin wants to act as an applicant, they must create a separate user account to do so.

Assumption #2: A contact can have multiple roles at different organizations. For example, they may have a permanent full-time role at one organization, a volunteer role at another organization, and a board seat at a third organization, etc.

Assumption #3: Some companies may conduct a single interview with an applicant for multiple positions at a time.

Assumption #4: Some jobs, like internships, may hire multiple candidates for the same job posting.

Assumption #5: Some companies have umbrella postings that allow applicants to apply to multiple jobs with one application.

Assumption #6: ID will be incremented automatically for each corresponding strong parent entity. For example, each contact will have a referral ID of 1 for their first referral and a referral ID of 2 for their second referral, etc. The same applies for each interview scheduled by each applicant.

Assumption #7: The system will automatically assign a unique ID for each contact.

Assumption #8: DOCUMENT is assumed to be a weak entity because each applicant may upload documents that are only specific to that applicant. A document, such as a resume or cover letter, cannot exist without corresponding to a specific applicant. Moreover, multiple applicants may upload documents with the same name, so FileName is not a unique attribute.

Assumption #9: APPLICATION is assumed to be a weak entity because each applicant may store applications in the system that are only specific to that applicant. An application cannot exist on its own without corresponding to a specific applicant.

Assumption #10: JOB is assumed to be a weak entity because each job must correspond to and be posted by a specific company; a job cannot exist on its own. Moreover, multiple jobs may be posted with the same position name but by different companies, so PositionName is not a unique attribute.

Assumption #11: OFFER is assumed to be a weak entity because each offer must offer a job to a specific applicant. A job offer cannot exist on its own without corresponding to an applicant that is being offered the job.

Assumption #12: REFERRAL is assumed to be a weak entity because each referral must be made by a specific contact. A referral cannot exist on its own without corresponding to a specific contact who made the referral.