

CS5200

Randy Lirano

Project 1: Application Manager

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Company Application Management

I. Project Requirements

This is an application management for a single company called JobHunt. JobHunt could post more than one position. Each posting should have a brief description, minimum qualification, and annual salary. Each posting could receive more than one application. Each applicant could apply to more than one position. Although each applicant could apply to multiple position, he/she cannot apply to same posting multiple times. Each application contains the submission date, applicant's contact information, applicant's qualification, and decision. There are only two possible decisions for each application, which is either hired or rejected.

Requirements:

- There are multiple job postings
- Each posting can only be for one position
- Each posting could receive more than one application
- Applicant should have at least one application
- Applicant cannot apply to the same posting multiple times
- Applicant could apply to multiple postings
- Applicant will put his/her qualification in each application

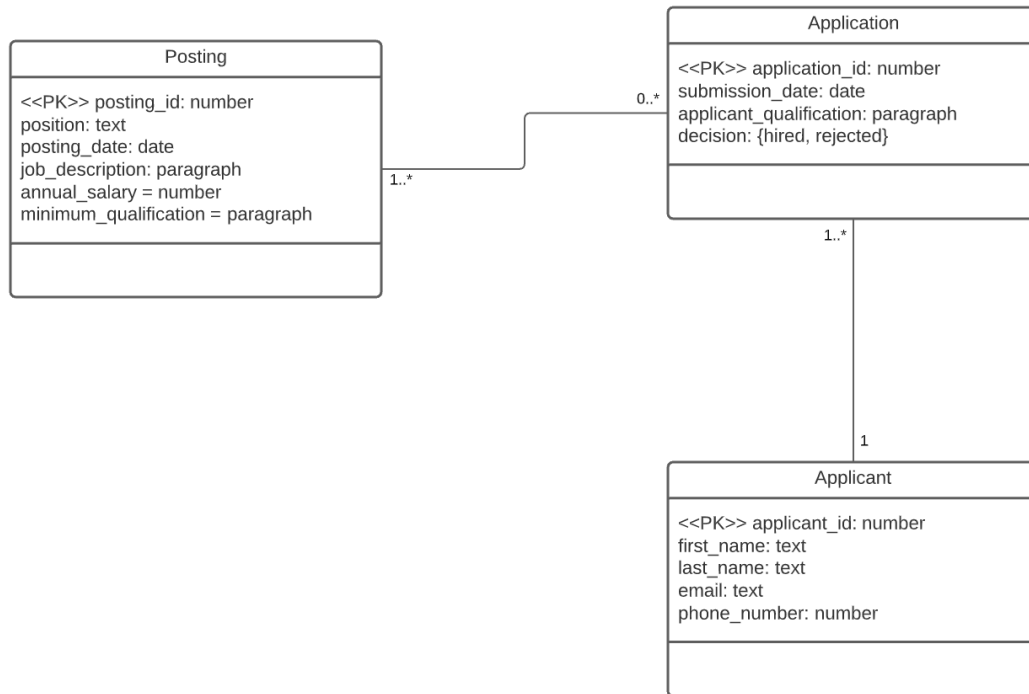
Nouns:

- Job posting
- Application
- Applicants

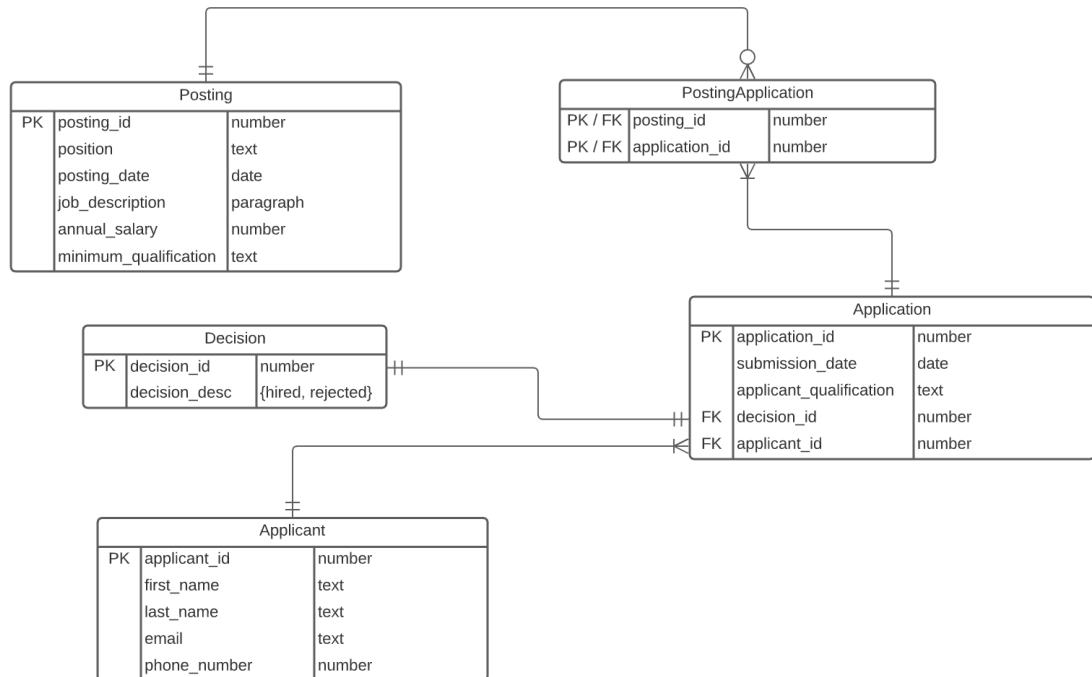
Verbs:

- Apply

II. Conceptual Model



III. Relational Model



Relational Schema

- Posting (posting_id, position, posting_date, job_description, annual_salary, minimum_qualification)
- PositionApplication (posting_id, application_id)
- Application (application_id, submission_date, applicant_qualification, decision_id, applicant_id)
- Decision(decision_id, decision_desc)
- Applicant (applicant_id, first_name, last_name, email, phone_number)