Assignment 4

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Due 5/11/2020

Problem 1

(a) Actors:

- Companies - will use to post jobs with requirements and expected salary
- Applicants (candidates) - will post their resume and generate their profiles
- Moderator staff - will review and approve job posts and applicants profiles
- Site owners - has a monetary interest in a successful job board
- Developers - builds the job boards
- Job board (system) - matches suitable candidates to jobs

(b) Use cases:

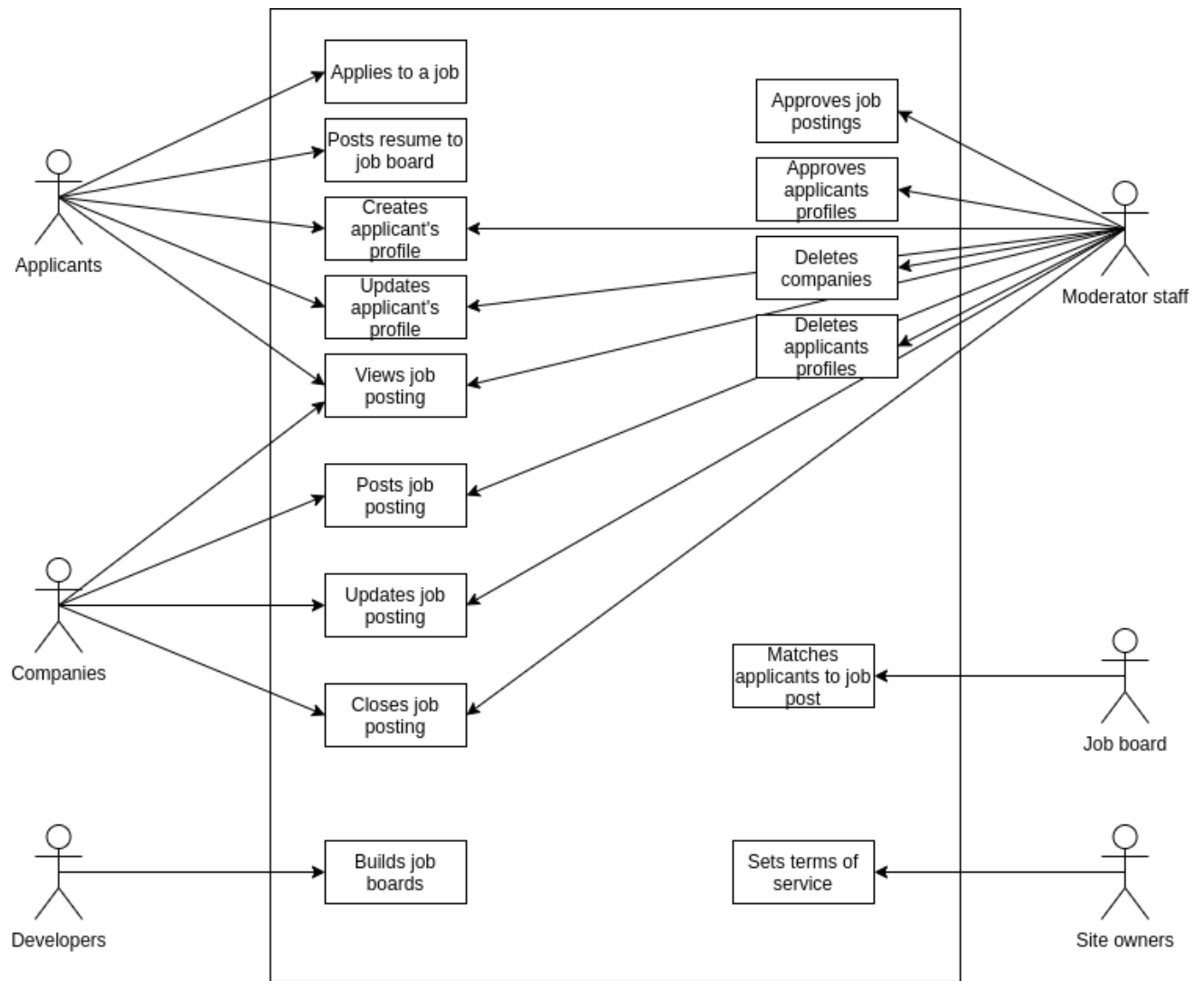| Actors	Use Case Description
Companies, Moderator staff	Posts job posting
Companies, Moderator staff	Updates job posting
Companies, Moderator staff	Closes job posting
Applicants, Moderator staff, Companies	Views job posting
Applicants	Applies to a job
Applicants	Posts resume to job board
Applicants, Moderator staff	Creates applicant's profile
Applicants, Moderator staff	Updates applicant's profile
Job board	Matches applicants to job post
Moderator staff	Approves job postings
Moderator staff	Approves applicants profiles
Moderator staff	Deletes (bans) employers
Moderator staff	Deletes (bans) applicants profile
Developers	Builds job boards
Site owners	Sets terms of service

Problem 2

Figure 1: Use cases from Problem 1(b)
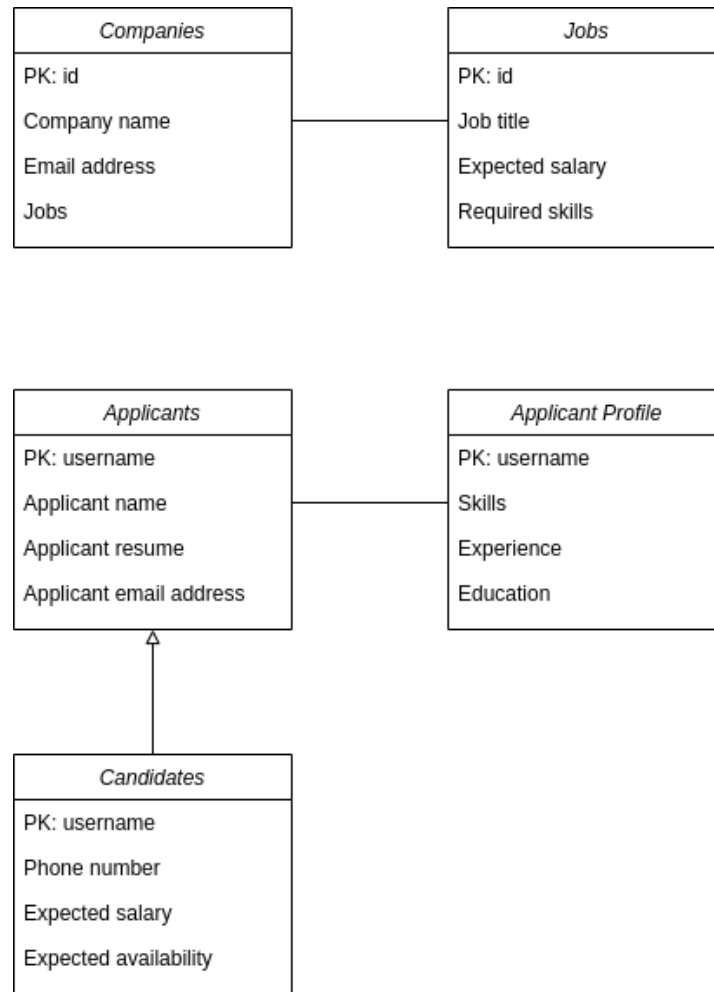
Problem 3

Figure 2: Expected Data Classes

- Companies is a "has a" relationship with Jobs data class

- Applicants also has a "has a" relationship with Applicant Profile data class

- Candidates is a subclass of Applicants data class, thus is "is a" relationship