Web Career Portal - ER Diagram

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Quick overview:

- Primary keys are notated: **underlined_and_bold (PK)**.

- If a foreign key forms part of the primary key, it will be shown alongside the **primary_key (PK, FK)**.

- Non-primary key foreign keys are *italicized (FK)*..

- Two arrowheads indicates a one-to-one relationship.

- An arrowhead and a straight line is one-to-many.

- Simply a straight line will indicate that it is many-to-many

user_category (PK)

price

User Category

name

address

phone

employer_ID (PK)

Employer

email

In priniciple, the user_category of 'employer' is determined by 'employer_ID'.

In practice, admin/employer/user are all subtypes of the 'User' table, at least in our design.

user_category (FK)

first_name

last_name

employer_ID (FK)

username (PK)

email

User

status

password

payment_account_ID (FK)

payment_ID (PK)

Payment

security_answer

total_applications_submitted

total_jobs_posted

username (FK)

job_ID (FK)

job_application_ID (PK)

job_name

Job Application

employer_ID (FK)

application_response

employer_name

application_status

application_text

This relation is only in 2NF. There are transitive dependencies between job_ID --> job_name and employer_ID --> employer_name.

This was a design choice that made certain queries easier and simplified the back-end code.

total

user_category (FK)

Also, we know that first_name and last_name are determined by username (in the `user` table), but also that payment accounts almost always have a full name attached to them.

As such, we have followed this convention.

payment_method (PK)

Payment Method

username (FK)

cardholder_name

payment_account_ID (PK)

card_number

Payment Account

expiration_date

job_category

title

employer_ID (FK)

salary

Job

status

job_ID (PK)

job_description

balance

withdrawal_type

payment_method (FK)

date_start