

Database

Relational, PostgreSQL database

Database reasoning

A relational database was a simple choice for the Employee Development Dashboard. The data is very structured with not much long-standing need to expand. All of the data is based off a single entity – a User object – and therefore is relational in nature. There are a few objects within the database that will need to be JSON structures, and since PostgreSQL has native support for this functionality, it was an easy choice for the database in this application.

Entities

- **User**
 - The main object of the application that holds metadata of a user. Every other entity is based off this entity as we are tracking information specifically for a user
- **Goal**
 - Has a one-to-many relationship with a User object. Users can register many goals, but a single goal cannot be on multiple users. Goals showcase something that a user registers as something they would like to accomplish in the future.
- **Achievement**
 - Has a one-to-many relationship with a User object. Users can register many achievements, but a single achievement cannot be on multiple users. Achievements mark something that the user has accomplished.
- **Feedback**
 - Has a one-to-many relationship with a User object. A feedback object can be only be associated with one user and a user can have many feedback items. Feedback objects are registered when another employee submits a specific feedback item for a single employee.
- **Certification**
 - Has a one-to-many relationship with a User object. Users can register many certifications, but a single certification cannot be on multiple users. Certifications are closely tied to achievements, but a little different in that they are specific accomplishments on a professional level, where achievements can be anything professionally.
- **Event**
 - This entity is registered by a user admin as something users can attend and get points for/attend (in later iteration). They will be showcased on their own page and can be attended by users
- **Training**

- This entity showcases videos that users can watch and learn from. Many users can watch the same video.
- **UserEvent**
 - This table allow users to have a many-to-many relationship with events. Because users can attend many events and events can have many users, this table is needed to show this relationship.
- **UserTraining**
 - This table allow users to have a many-to-many relationship with training. Because users can watch many training videos and videos can have many users this table is needed to show this relationship.

Design

