AllerTrac

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Description

AllerTrac is an allergic episode tracking application that will allow users to create a user profile, and document and track allergic episodes.

Features

- Persistent Sessions.
- CRUD Repository.
- Users can develop user profiles with a known allergens list.
- Track allergic episodes symptoms, allergens, date, treatment, and duration.

- Search through saved episodes either through the database, or by a simple filter search on the front-end.

- Upload photos of visible symptoms.

Planning - User Stories

- A registered user can save a known allergen list that displays on their profile page so it's easily found.

- They can create new records of allergic episodes, update them, and delete them.

- They can also add allergens and symptoms to the site database for other users convenience.

- They can upload photos for easy display to physicians.

Planning - Database

- Allergen table: A simple table consisting of allergen names and IDs.

- Allergic Event Table: A complex table that consists of two foreign keys, allergens in a many to one relationship, and a user ID.

- Allergic Event Symptom Table: A table that consists of an allergic event ID in a many to many relationship, and a symptom ID.

- Symptom Table: A simple table consisting of symptom name and ID.

- User Table.

- User Allergen Table: A simple join table consisting of a user ID and an allergen ID.

Technology Stack

- Java & JavaScript
- Spring Boot
- Thymeleaf
- MySQL
- Bootstrap

Demo

What I Learned

- User unique lists—letting a user save data to their profile.
- Uploading files.
- Displaying user photos.

What's Next

- Refine features (Users can save multiple pics to database. Right now they only save to disc, and can only save one photo, make allergens fully user dependent.)

- Deploy it to the cloud.
- Include GPS data: Environmental factors influence allergic reaction. Knowing GPS coordinates can help narrow down triggers.

- Email capabilities. Users will be able to email their physicians.

- Separate features for physicians and patients.

- React and PHP.