Volunteer Shelter App

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Description

The app pairs volunteers with animals and tasks that match their training, experience, and skill level. This benefits the volunteer, the shelter, and the animals. It allows volunteers to record their interactions and log valuable feedback. This information is used to help provide a safe experience for the volunteer; and the best possible outcome for the animals in the shelter system.

Features

- Allow the login in of unique users
- Volunteers are able to sort through and find animals according to their background and experience
- Volunteers can log their activities with the animals as well as any housekeeping tasks, separately, into sessions
- Sessions can be stored and brought up in a history log to show what the animal has been experiencing

Planning - User Stories

- As a user I'd like to be able to successfully Login and be directed to the Quick Links page
- As a user I'd like to log various aspects of my interactions with both dogs and cats
- As a user I'd like to see a list of dogs and cats which I can interact with according to my level
- As a user I'd like to log various aspects of my housekeeping duties

Planning - UI

Planning - Database

We chose PostgreSQL after struggling to find a managed database provider which allowed us to have multiple connections and not worry about the DevOps side of things.

Heroku's Hobby Dev was perfect for us!

Technology Stack

- Javascript and Java
- React, Spring Boot, Spring Security
- Maven Build
- Hibernate ORM
- Material UI, React-Router/Hooks
- PSQL

Demo

What I Learned

- Frameworks: Spring Security, React, React-Router, MUI
- Techniques: Authentication services; learned multiple web design patterns like Context; developed front and back end synergy for more streamlined fullstack app building
- Features/Problems: GIT as a team; overlapping branches;

Overall: how a web app interacts with a frontend through API calls

What's Next

- Tutorial walkthrough of the app and its features for 1st time users
- Hardened authentication through JWT
- Register new users and animals through an Admin view
- Refine theming and aesthetic for deeper UX
- Finalize and solidify logical infrastructure
- Transition to dynamic pages; fully interactive and encapsulation of routing
- Specify data more to mitigate excess calls and security leaks