

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



Shelter Volunteer App


FORGET MY PASSWORD


LOGIN


Home

Hi Peach!

Quick Links

 Dogs
Manage dog needs!

 Cats
View all cat needs!

 Housekeeping / Laundry
Manage housekeeping needs!

Dogs

Select A Dog

Dog #1 >

Dog #2 >

Dog #3 >

Dog #4 >

Dog #5 >

Dog #6 >

Alert

Check the health status of the animal to determine handling protocols. If the animal is contagious, follow best practices as laid out in the volunteer handbook. Have you checked the health status of this animal?

YES

Dogs

Dog #1 Activities

Dogs WALKING

ENRICHMENT

Dog #1 History

History

Potties/Yes Dropdown

Peed

Pooped

Series Housebroke

Dogs

Dog Walking Options

Yes

No

Walking

Coming Out

Going Through

Going Back In

Behavior

Stress

Leash

Muzzling

Jumping

Energy Level

Submit

Cats

Select A Cat

Cat #1 >

Cat #2 >

Cat #3 >

Cat #4 >

Cat #5 >

Cat #6 >

Alert

Check the health status of the animal to determine handling protocols. If the animal is contagious, follow best practices as laid out in the volunteer handbook. Have you checked the health status of this animal?

YES

Cats

Cat #1 Activities

Cat CARE

ENRICHMENT

Cat #1 History

History

Cat Care Options

Playing

Open Kennel

Change Litter

Change Food/Water

Submit

Enrichment Options

Treats/Kong

Flak

Playing

Cuddle Time



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

