Adopt-A-Pet Technical Report

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Motivation

Adopt-A-Pet serves as a one-stop website where potential pet owners research the best way to adopt their next pet. From lifestyle preferences to browsing adoption centers, this product speeds up the timeline from visiting the adoption center to bringing the pet home. Adopt-A-Pet emphasizes enabling compassionate pet owners and underserved adoption candidates. In particular, Adopt-A-Pet will provide information for adoption centers, different species and breeds, as well as adoptable pets.

User Stories

Choosing Pet by Breed

"I am a pet lover who is looking for a specific dog breed to adopt. I would like to see all the dog breeds available for adoption and select one or more of the available dog breeds. I only want to see dogs of the breeds that I selected."

Status: To be implemented in Phase 3

Distance to Adoption Center

"I would like to adopt a pet in the nearest adoption center. I would like to be able to find adoption centers near me (by distance or P.O. box). I would also like to be able to sort this list by adoption centers nearest me."

Status: To be implemented in Phase 2

Filtering/Sorting Pets by Adoption Center

"I would love to adopt a pet, however I only want to adopt from no-kill shelters because I believe they are more humane. I would love to be able to filter or sort the adoptable animals by what type of animal shelter they come from, or by the rating of the animal shelters they come from."

Status: To be implemented in Phase 3

Have Images of Pets on Their Page

"I don't know much about different breeds of dogs, so I won't be searching for a specific breed. My kids only want to adopt a dog if it looks a certain way. It would be really helpful to see images of what the available pets look like."

Status: Implemented images of pets on respective pages

Looking for a Specific Animal

"I am looking for only cats, and want to be able to filter the results so no other animals appear in order to make my experience faster."

Status: To be implemented in Phase 3

RESTful API

https://documenter.getpostman.com/view/17710041/UUy38kte

Models

Species

- Name
- Breeds
- Color
- Pattern
- Found in which adoption centers

Adoptable Pets

- Species
- Breed
- Age
- Sex
- Size

- State
- Country
- Species carried
- Service
- Type

Filterable/Sortable Attributes:

Species: name, breeds, color, pattern, adoption center

Adoptable Pets: species, breed, age (group), sex, size (group)

Adoption Centers: state, country, species carried, service(s) offered, type (rescue v shelter)

Searchable Attributes:

Species: name, breeds, color, pattern, adoption center

Adoptable Pets: species, breed, age (group), sex, size (group)

Adoption Centers: state, country, species, service provided, type

Media:

Species: photo of species, text list of its breeds and Adoptable Pets, youtube video of species, table

Adoptable Pets: grid of pets, picture of pet, text of its characteristics and a description of it, pop up modal of its medical history

Adoption Centers: table, map of where its located, text of its services and type, and pictures of the species it carries

Connections:

Species: Connects to Adoptable Pet because there will be multiple Adoptable Pets of a certain species. Connects to Adoption Center because an Adoption Center carries multiple species.

Adoptable Pets: Connects to Species because an Adoptable Pet is of a certain type of species. Connects to Adoption Center because each Adoptable Pet is found under its respective Adoption Center.

Adoption Centers: Connects to Species because an Adoption Center will carry certain types of Species. Connects to Adoptable Pets because an Adoption Center will have certain Adoptable Pets available.

Tools

- React
- React Bootstrap
- AWS Amplify
- Postman
- GitLab
- NameCheap
- APIs:
    - https://gitlab.com/api/v4/projects/29831002/repository/contributors
    - https://api.rescuegroups.org/v5/
    - https://docs.thecatapi.com/
    - https://docs.thedogapi.com/
    - https://developers.google.com/maps

Hosting

Acquired domain name from NameCheap for free using the GitHub Student Developer Pack. We deployed our GitLab repository on AWS Amplify, which hosts our web content. AWS Amplify connected to our domain name from NameCheap and also issued the TLS/SSL certificate to enable HTTPS protocol. We also handled redirection from *adoptapet.me* to *www.adoptapet.me*.

Gitlab

https://gitlab.com/10am-group-8/adopt-a-pet