Project No. 2 – PetFinder

Team:
Sergio Burca
Josh Dulin
Taddes Korris
Philopateer Mina

Purpose: PetFinder is intended to provide users with relevant information on any given breed of cat or dog. Whether a user is interested in adopting a pet or learning more about their pet's breed, this application contains applicable and practical data. Furthermore, the application provides users the opportunity to connect to a community of owners and contribute their own data and experiences, therefore enhancing the user experience for all.

Project Description:
Pet finder is a dynamic application that connects to a database on cats and dogs. The database contains information on most cat and dog breeds, including color, size, weight, behavioral attributes, feeding recommendations and other relevant details. Various links and API connections will help populate the website with relevant data.

The functional database related to this project will contain information populated by a CSV, containing data on all major breeds. Another related database will contain user information that has been provided, based on their experiences with particular breeds. This information will be authenticated through password control and the creation of an account to the community. This database will also be used to store information that will be displayed on the site, along with the database of static pet data.

A functional and attractive UI/UX is fundamental to the success of this project and the site will provide a rich experience for the user. Pet images will be prevalent and connectivity to other communities will allow for pet owners to connect with other pet owners in an interactive fashion. One hopeful stretch goal is to include functionality for a lost pets board, allowing a user to post, search or delete a posting regarding a lost pet

Task Breakdown:

1. Preliminary Phase
    - Breakdown of page layout, folder structure and database structure.
    - Node server connection setup.
    - Breakdown of what data is to be used and stored in database.
    - Study of NPM packages/modules for effective functionality.
    - Basic design of HTML structure, connection to front-end CDN, list of functional templates or libraries relevant to UX/UI
    - Population of CSV file into functioning SQL database.
    - Draft of basic page design, possible front-end formatting.
2. Secondary Phase
    - Rendering of data on page from database.
    - Connecting database (Node) to SQL database using Sequelize.
    - Structure of data in how it is used to populate user query.

- Capturing user input and data to database.
- Creating user authentication and account creation.
- Logic to handle user inputs, invalid inputs, possible errors.

3. Tertiary Phase
    - Polished front-end
    - Extensive database with robust GET and POST
    - Debug possible problems and errors
    - Additional connections to modules, npm packets, API's
    - Inclusion of lost pet functionality

Technologies to be used:

- Node.js & Express
- HTML, CSS, Bootstrap 4 (possibly jQuery UI or Materialize)
- JavaScript & jQuery
- MySQL & Sequelize ORM
- Authentication protocols (Passport)
- Heroku for deployment
- Other possible technologies discovered through process. Possibly Graph QL, Yarn, Angular.js