

Furever Friends

Phase 1 Project Documentation

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High-Level Requirements

1. The user must be able to create an account as an individual or an organization, such as a pet shelter.
2. The user must be able to list a pet for adoption.
3. The user must be able to list a pet that is lost or list a pet that is found.
4. The user must be able to search for pets by location, type of animal, gender, age, and status (lost, found, up for adoption).
5. The user must be able to take a personality quiz that analyzes their preferences and lifestyle to suggest adoptable pets that match.
6. The user must be able to view a specific pet profile to read details of the pet, such as name, age, type, breed, and a short biography. The profile will also have photos of the pet.
7. The user must be able to send private messages to other users who had posted a pet listing.
8. The user must be able to view and respond to private messages sent to them by other users.
9. The user must be able to receive notifications when new pet matches are found or when new messages are sent to them.
10. The user must be able to search for locations between them and another user when they choose to meet or adopt a pet. These locations will be considered safe because they are public locations that allow for pets (Safe Spawts), and include reviews and photos from other users who met there.
11. The user must be able to upload photos of pets that are lost, found, or up for adoption.
12. The user must be able to take photos of pets using the app camera feature and apply filters to the photos.
13. The user must be able to scan relevant documents and information for adoption using the app's document scan feature.
14. The user must be able to choose whether to display contact information publicly on a pet's profile page.
15. The user must be able to delete a pet listing they previously posted.
16. The user must be able to access the app on a web browser on a computer, tablet, or smartphone.

Project Glossary

Adopter: A user who is looking for a pet to adopt.

Adoptee: A user who has a pet or pets that need to be adopted.

Organization: An organization such as a pet rescue or pet shelter that has several pets they wish to list for adoption.

Safe Spawts: Pet-friendly public locations between the adopter and adoptee where they can meet in person to exchange or meet the pet.

Matches: Pets that fit an Adopter's preferences based on the information they entered into their account and the optional personality quiz results.

Adoption Listing: A Pet Profile for a pet that needs to be adopted.

Lost or Found Listing: A Pet Profile for a pet that an owner has lost or someone has found. These listings are used to help reunite owners with their pets.

Pet Profile: Holds information about a specific pet, including details such as gender, breed, age, location, and a biography. The profile also may have photos or videos of the pet.

Use Case Descriptions

Create User Account

BASIC COURSE:

The user clicks on the sign up tab in the top navigation bar and is redirected to the Sign Up Page. The user enters Account Information (such as name, email address, phone number, role, zip code and password). The user clicks Sign Up Button. The system ensures the password is valid and email address is unique by accessing the Master Account List. The system then adds User Account into Master Account List. The system displays the Account Confirmation Page, and invokes Login use case.

ALTERNATE COURSES:

The user leaves the name field empty: The system displays a message under the name field requesting that user input a name.

The user enters an invalid zip code (empty, nonnumeric, or not of length 5): The system displays a message under the zip code field requesting that the user input a valid 5-digit zip code.

The user enters an invalid phone number (nonnumeric, not of length 10): The system displays a message under the phone number field requesting that the user input a valid 10-digit phone number.

The user enters an email address of invalid format (not containing one '@' or empty): The system displays a message under the email address field requesting the user to enter a valid email address.

The email address already exists in the system: The system displays a message stating that the account already exists and that the user can sign in.

The user enters an invalid password (leaves empty): The system displays a message under the password field requesting the user to enter a password.

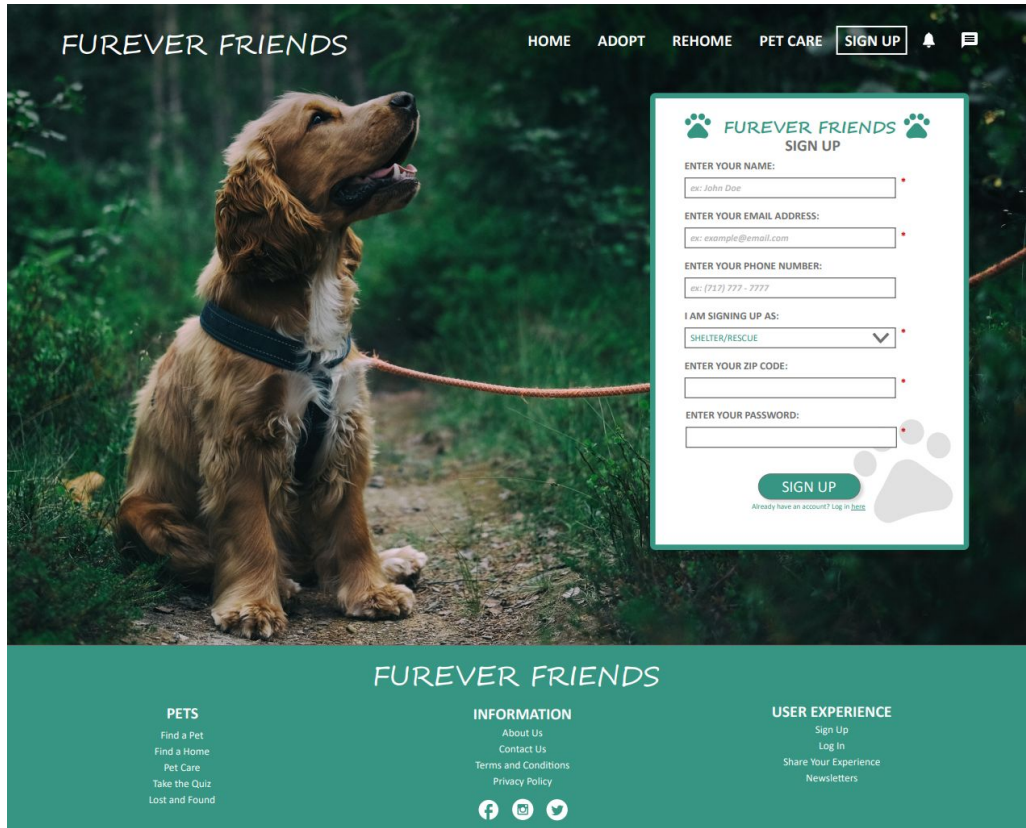


Figure 1.1:
Account
Creation Page

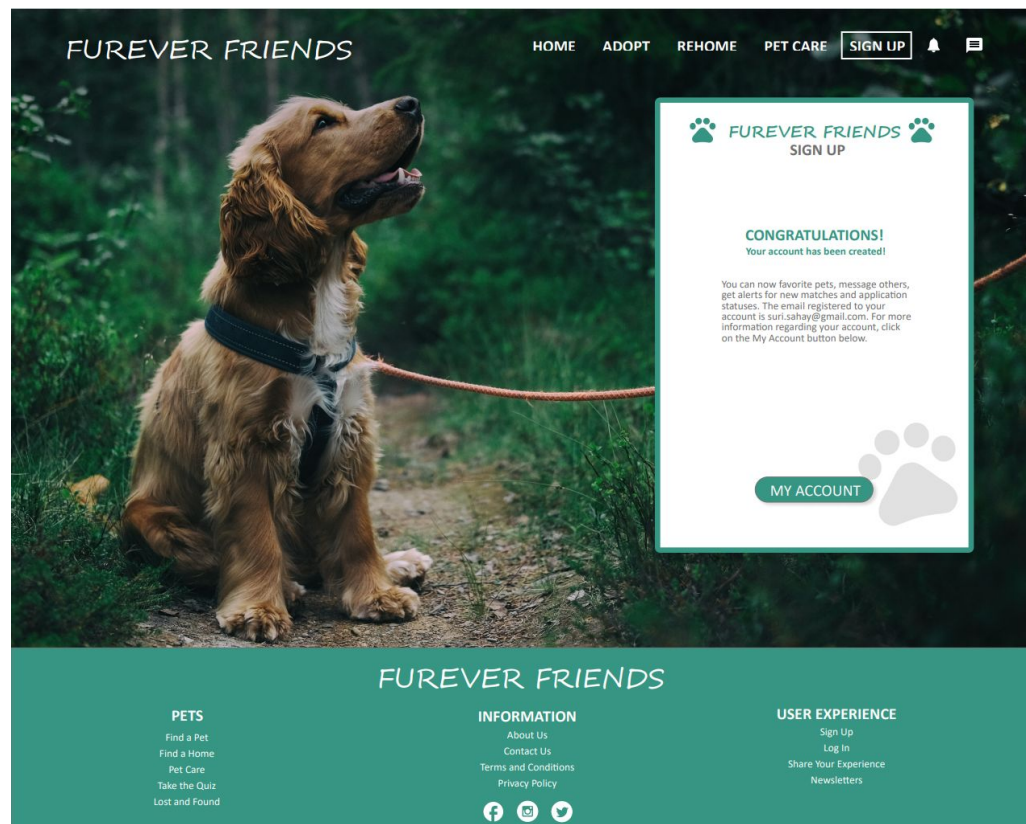


Figure 1.2:
Account
Confirmation
Page

Using Pet Finder Form

BASIC COURSE:

The user clicks on the home tab in the top navigation bar and is redirected to the Home Page. The user enters Pet Information (drop down list of pet type, age, breed and a zip code text box). The user then clicks on the Search Button and is redirected to the appropriate Pet Listings Page.

ALTERNATE COURSES:

The user enters an invalid zip code (empty, nonnumeric, or not of length 5): The system displays a message under the zip code field requesting that the user input a valid 5-digit zip code.

The user does not choose from the list of types of pet: The system displays all listings for all types of pets by default.

The user does not choose from the list of age preference: The system displays all listings for pets of all ages by default.

The user chooses a type of pet but does not choose anything for breed: The system displays all listings for that type of pet and of all breeds.

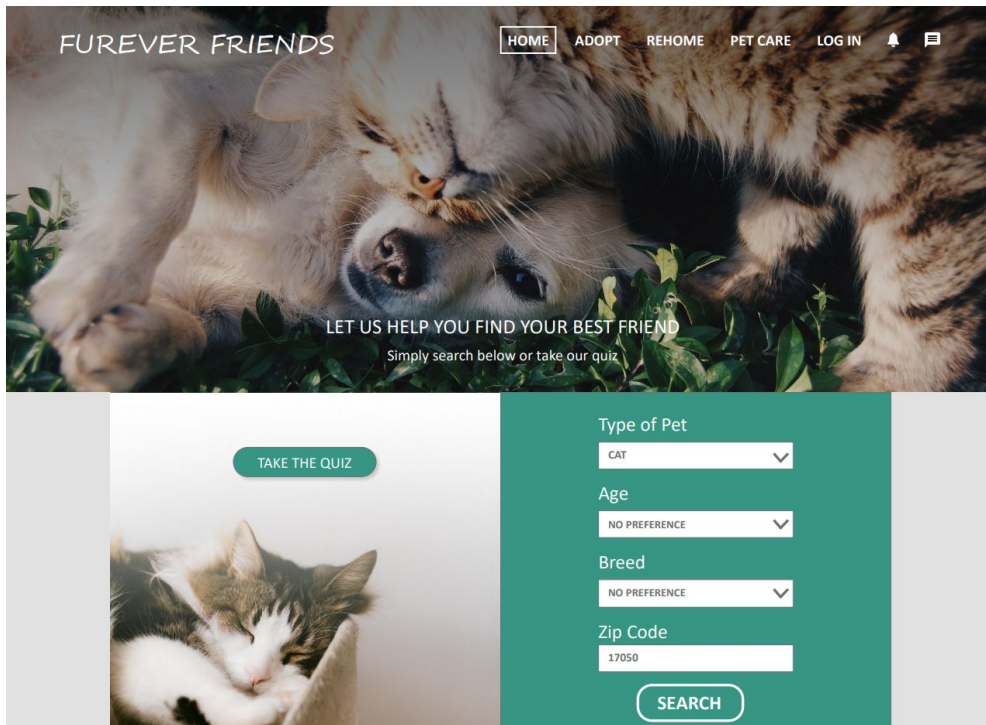
The screenshot shows the 'FUREVER FRIENDS' website. The top navigation bar includes links for HOME, ADOPT, REHOME, PET CARE, and LOG IN, along with a bell icon and a chat bubble icon. The main header features a large image of a dog's face with the text 'LET US HELP YOU FIND YOUR BEST FRIEND' and 'Simply search below or take our quiz'. Below this, there is a 'TAKE THE QUIZ' button next to a photo of a cat. To the right, a search form is displayed with four dropdown menus: 'Type of Pet' (set to CAT), 'Age' (set to NO PREFERENCE), 'Breed' (set to NO PREFERENCE), and 'Zip Code' (set to 17050). A 'SEARCH' button is located at the bottom of the form.

Figure 2.1: Pet Search Form

Submit Lost and Found Form

BASIC COURSE:

The user clicks on the Submit Lost and Found Form Button on the Lost and Found Page and the system redirects the user to the Form Page. The user enters Pet Information (profile picture, optional additional images, species, name, age, gender, breed, and fur length, city, state, zip code, status, optional about me section, etc.), and Contact Information (name, email, phone, website, etc.). The user clicks Publish Button. The system then adds Pet Profile to Master Pet List and Contact Account to Master Account List. The system displays the Lost and Found Confirmation Page.

ALTERNATE COURSES:

The user does not upload a profile picture: The system displays under the add photo button stating that the user is required to set a profile picture.

The user does not choose from the list of species: The system displays a message under the species dropdown requesting that the user choose from the list of species.

The user does not choose from the list of ages, genders, or breeds: The system displays a message under the corresponding dropdown requesting that the user choose from the list and if the characteristic is unknown, to choose the unknown option.

The user enters an invalid zip code (empty, nonnumeric, or not of length 5): The system displays a message under the zip code field requesting that the user input a valid 5-digit zip code.

The user does not choose from the list of statuses: The system displays a message under the status dropdown stating to choose between missing status for pets that are lost or found status for pets that are found abandoned.

The user leaves the name field empty: The system displays a message under the name field requesting that the user input a name.

The user enters an email address of invalid format (not containing one '@' or empty): The system displays a message under the email address field requesting the user to enter an valid email address.

The user enters an invalid phone number (empty, nonnumeric, or not of length 10): The system displays a message under the phone number field requesting that the user input a valid 10-digit phone number.

Figure 3.1: Lost and Found Form

FUREVER FRIENDS

HOMEADOPTREHOMEPET CARELOG IN

LOST AND FOUND

Reunite with your lost forever friend again!

FILL OUT LOST AND FOUND FORM

SET PROFILE PICTURE:

CLICK TO ADD PHOTO

ADD ADDITIONAL IMAGES:

CLICK TO ADD PHOTO

CLICK TO ADD PHOTO

CLICK TO ADD PHOTO

PET INFORMATION:

SPECIES:CAT

FUR LENGTH:UNKNOWN

NAME:

CITY:

AGE:KITTEN

STATE:PA

GENDER:UNKNOWN

ZIP CODE:

BREED:UNKNOWN/MIX

STATUS:MISSING

ABOUT ME SECTION:

Please include information regarding where the pet was spotted last.

CONTACT INFORMATION:

NAME:

EMAIL:

PHONE:

WEBSITE:

PUBLISH

FUREVER FRIENDS

PETS

Find a Pet

Find a Home

Pet Care

Take the Quiz

Lost and Found

INFORMATION

About Us

Contact Us

Terms and Conditions

Privacy Policy

USER EXPERIENCE

Sign Up

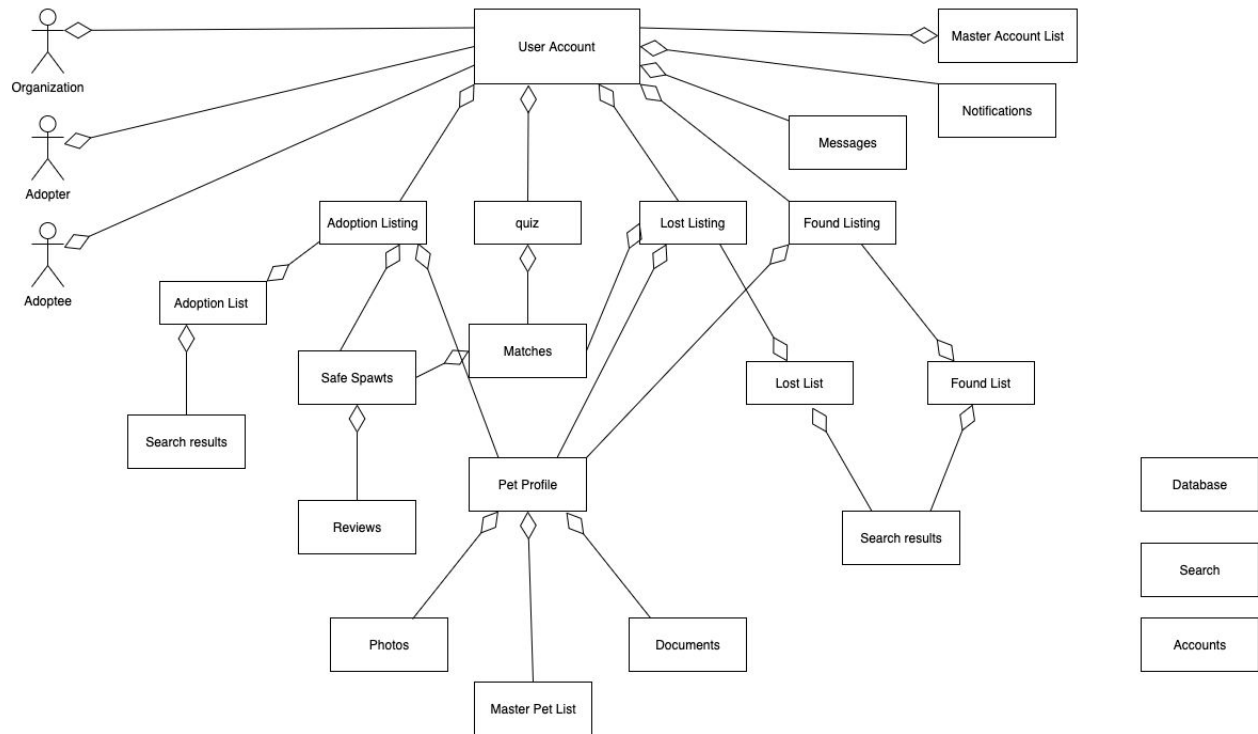
Log In

Share Your Experience

Newsletters

Domain Model

Figure 4.1: Domain Model



Robustness Diagrams

Figure 5.1: Create User Account

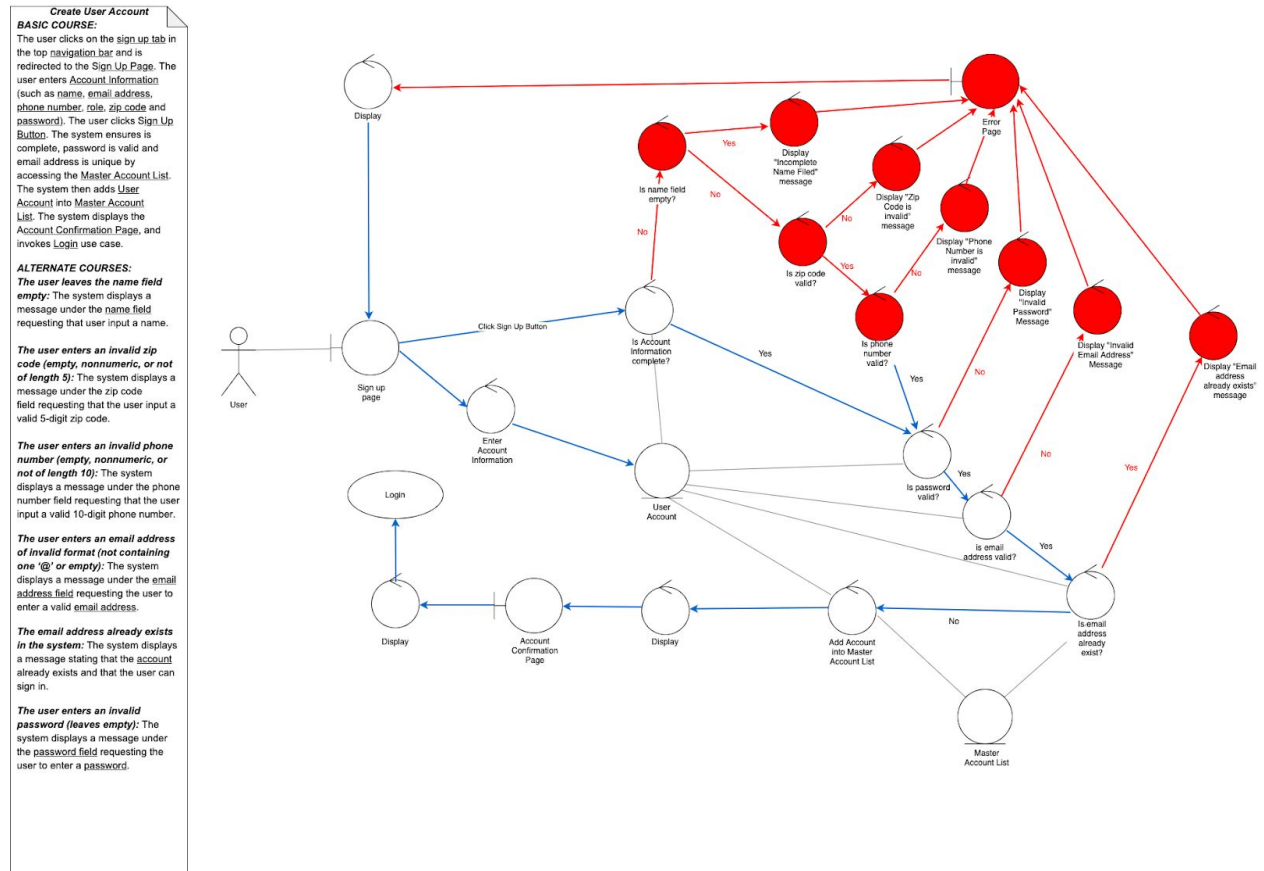


Figure 5.2: Using Pet Finder Form

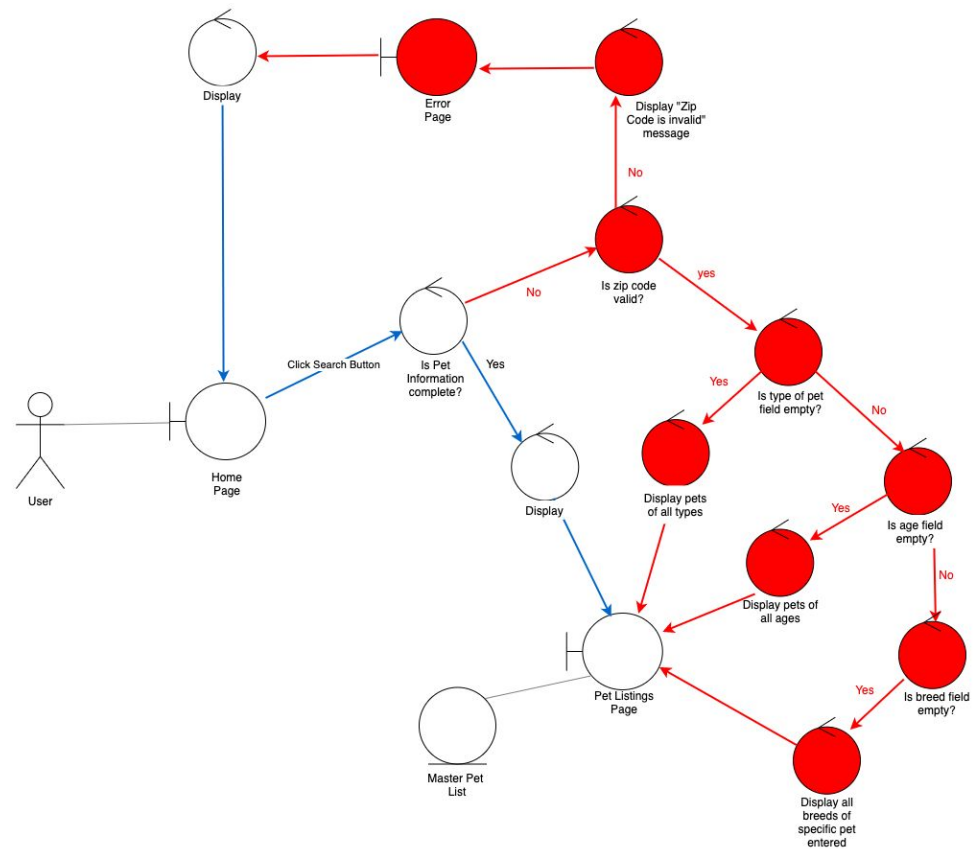
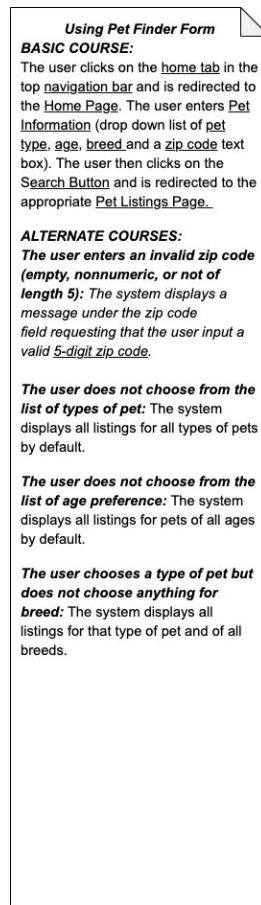


Figure 5.3: Submit Lost and Found Form

Using Pet Finder Form

BASIC COURSE:

The user clicks on the home tab in the top navigation bar and is redirected to the Home Page. The user enters Pet Information (drop down list of pet type, age, breed and a zip code text box). The user then clicks on the Search Button and is redirected to the appropriate Pet Listings Page.

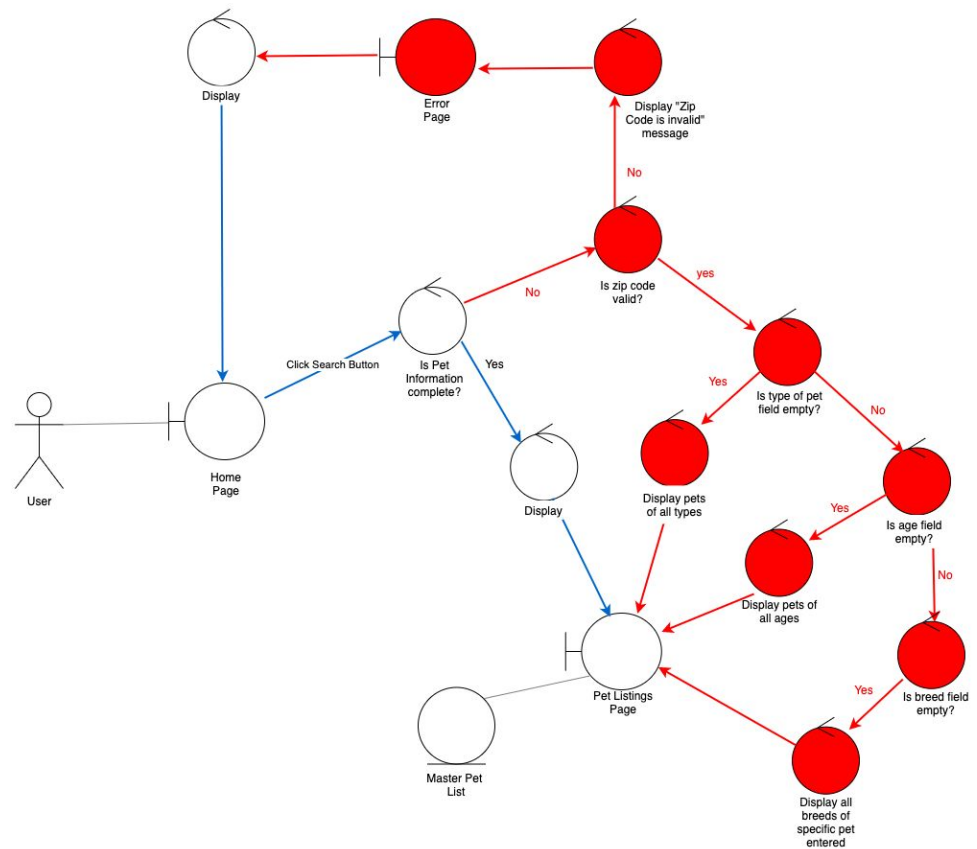
ALTERNATE COURSES:

The user enters an invalid zip code (empty, nonnumeric, or not of length 5): The system displays a message under the zip code field requesting that the user input a valid 5-digit zip code.

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Full Application GUI Prototypes

[Click here to view a full wireframe preview of the application.](#)