



SE371-Web Engineering
Paws & Stripes Shelter
Prince Sultan University



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Table of Contents

Table of Contents	2
Website Name:	3
Goal:	3
Objectives:	3
Target Audience:	3
Timelines:	3
Evaluation plan:	4
Site map:	4
Wireframe:	5
Content organization and Design/navigational elements:	5
Creating collections in mongoDB:	6
Screenshots from our website with feature details:	7
Publishing Our Website:	16

Website Name:

Paws and Stripes Shelter

Goal:

Paws and Stripes website aims to enhance the services provided by the shelter in which people who are keen about animal welfare can easily navigate the platform to request adoption, provide a shelter to an animal left astray, request to volunteer in the shelter, or handover a pet that they can no longer give a home to.

Objectives:

To achieve the aforementioned goal, the website will include multiple forms that highlight the shelter's services. If the user wishes to adopt an animal, they will be able to get recommendations from the website itself, or they can choose based on the animal's id based on the animal profiles that the website lists. Moreover, the website will highlight the adoption experiences to show the extent of its reliability.

Target Audience:

The website targets the demographic of people who are interested in contributing to animal welfare- whether it's adopting an animal or volunteering in the shelter itself.

Timelines:

- Strategy and communication plan (1 to 2 weeks)
- Design(2 to 3 weeks):

We have designed the interface for our website using Figma. We implemented this design using HTML, CSS, and Bootstrap.

- Development and programing (3-4 weeks):

We have worked with the backend of the website, creating a database on MongoDB cloud and using Node.js.

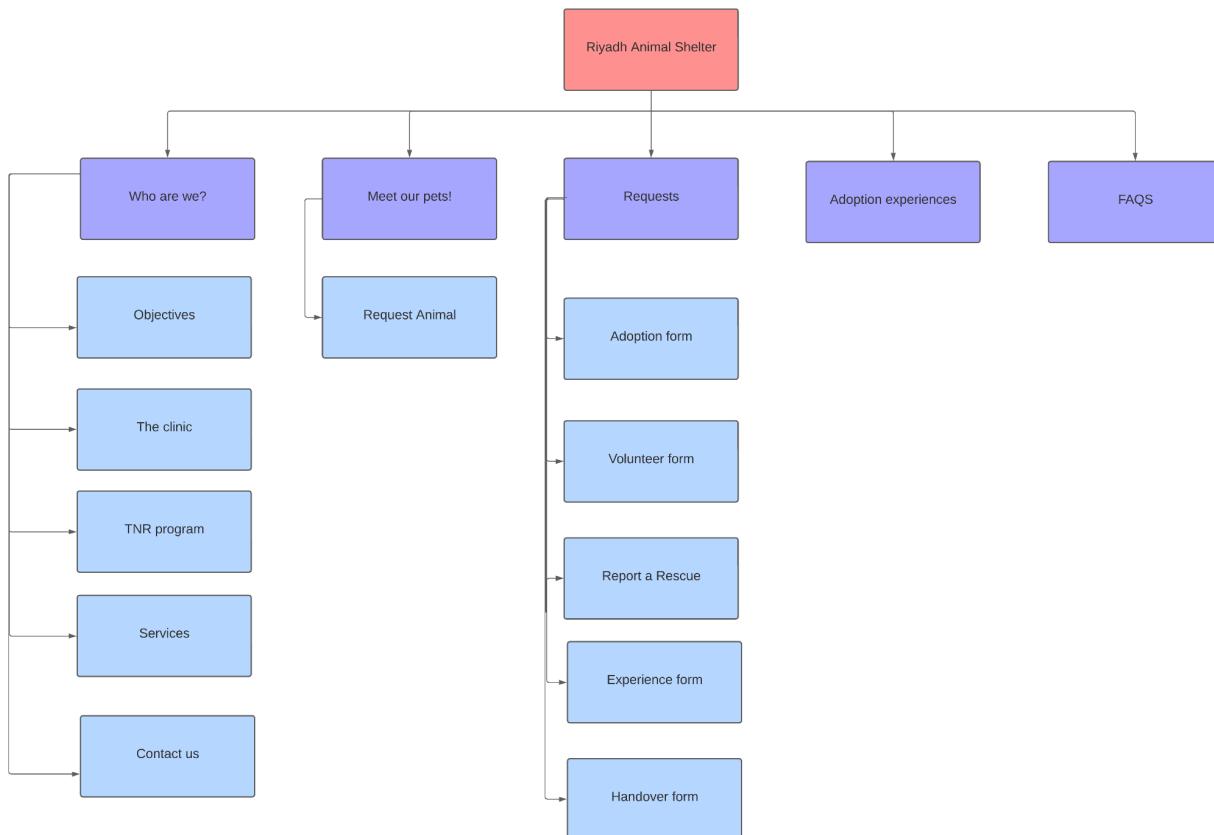
- Beta testing:

We have run multiple tests to ensure that what has been done in the development and programming phase is done correctly.

Evaluation plan:

The website should be easy to navigate as well as well-understood by anyone who visits it. The database is properly connected to the website in which required operations to retrieve and store data protect the website's integrity and availability. Furthermore, the data should be correct and accurate, and it should be properly protected from unauthorized access. The amount of information available to users should only be enough to achieve the service needed- not more or less. Smooth transition between the various pages should be achieved. User feedback should be promptly received. Therefore, the website's success would be evaluated based on those factors.

Site map:



Wireframe:



You can view the prototype on Figma:

<https://www.figma.com/proto/ZbLa8ppPAGuamaBPzUy4l/Riyadh-Shelter?type=design&node-id=5-5&scaling=min-zoom&page-id=0%3A1&starting-point-node-id=5%3A5>

Content organization and Design/navigation elements:

1. “Who are we?” page

In this section of the Riyadh Animal Shelter Website, the user will be able to learn about the shelter’s services through different pill navigation items which are: objectives, the clinic, TNR program, services and a contact section.

2. “Meet our pets” page

In this section of the Riyadh Animal Shelter website, the user will be introduced to animals through cards that display information about each of the animals available. If the user is interested in a specific animal, they can click on the “adopt” button which will take them to an “animal request” form where they will specify the id of the animal they wish to adopt.

3. Requests page

This section includes links to the forms outlining the shelter's services. The "adoption" form allows the user to submit a general request for adopting an animal where the website will give recommendations on which animal to adopt, and the user will confirm their inclination towards the recommendation. The "volunteer" form will take requests from users interested in volunteering in the shelter. The "report a rescue" form will take any urgent requests for providing a shelter to animals that are left astray. The "experience" form will take users' feedback on their adoption experience in order to post it on the website. The "handover form" will take requests from people who wish to give a shelter to their pets which they can no longer provide a home to.

4. Adoption experiences page

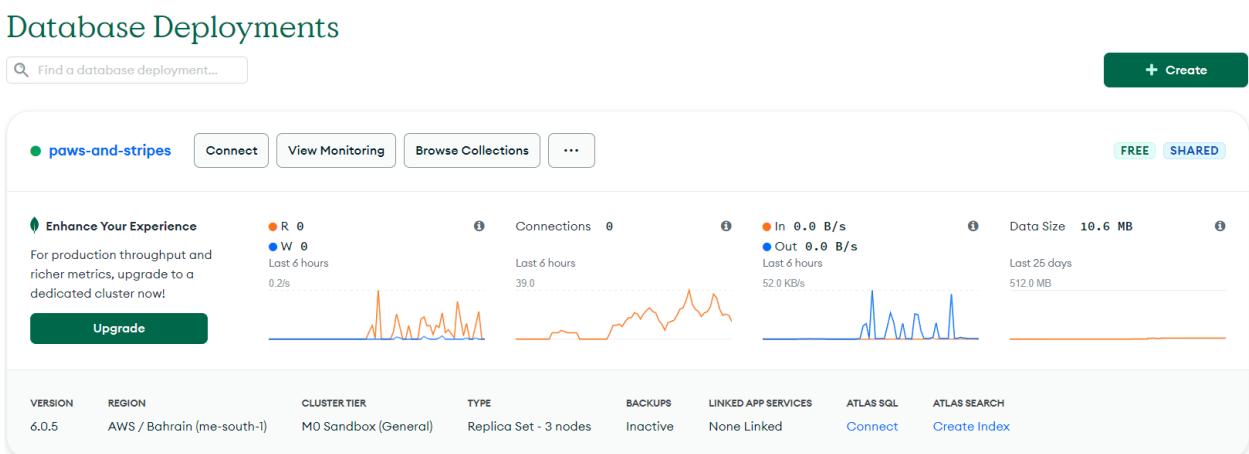
This section shows different adoption experiences and stories in the form of cards to prove the website's reliability and credibility.

5. FAQs page

This section includes frequently asked questions and their answers.

Creating collections in mongoDB:

- 1) We created a cluster on mongoDB atlas and connected it to our website.



- 2) We created 7 collections, in which we had a schema for each.

DATABASES: 1 COLLECTIONS: 7

+ Create Database

Search Namespaces

paws&stripes.adopts

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 1.98KB TOTAL DOCUMENTS: 12 INDEXES TOTAL SIZE: 72KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes Charts

INSERT DOCUMENT

Filter Type a query: { field: 'value' }

Reset Apply More Options

QUERY RESULTS: 1-12 OF 12

```
_id: ObjectId('644edc6b115deabf4d73436a')
user: ObjectId('644edc0c115deabf4d734355')
userName: "jude_bashar"
pet: ObjectId('644ed22e60124ad9e3472ba2')
petName: "Lucy"
petType: "cat"
status: "accepted"
createdAt: 2023-04-30T21:23:55.945+00:00
...
```

Screenshots from our website with feature details:

Anyone that visits our website can see this page as it describes our mission, clinic, TNR program, our services, and different ways to contact us. In addition, he/she can see all our pets that are available for adoption, finds all our different request, read our client's adoption experience and most frequently asked questions, and report a rescue

The screenshot shows the 'Rescue Form' page. At the top, there's a navigation bar with links: 'Who Are We?', 'Meet Our Pets!', 'Requests', 'Adoption Experiences', 'Report a Rescue' (which is highlighted in a green button), and 'FAQs'. To the right of the navigation is a large, stylized white arrow pointing right.

Rescue Form

When did you first see the pet?

Provide an image of the rescued animal: No file chosen

What type is the animal?

Is the animal suffering from clinical condition?

Yes
 No

Can you foster the animal till the animal is rescued?

Yes
 No

Enter Google Maps URL of rescue location

Provide us with your phone number:

This is the rescue form where any visitor of website can fill the information and send the form without having to create an account

The screenshot shows the 'Login Page' with a dark green header containing the 'PAWS & STRIPES' logo and navigation links: 'Who Are We?', 'Meet Our Pets!', 'Requests', 'Adoption Experiences', 'Report a Rescue', 'FAQs', and a right-pointing arrow.

Login Page

Email:

Password:

admin
 user

[Sign in](#)

Don't have an account? [click here to join!](#)

127.0.0.1:3001/requests/rescue-form

This is the login page where the visitor can sign in or create an account.

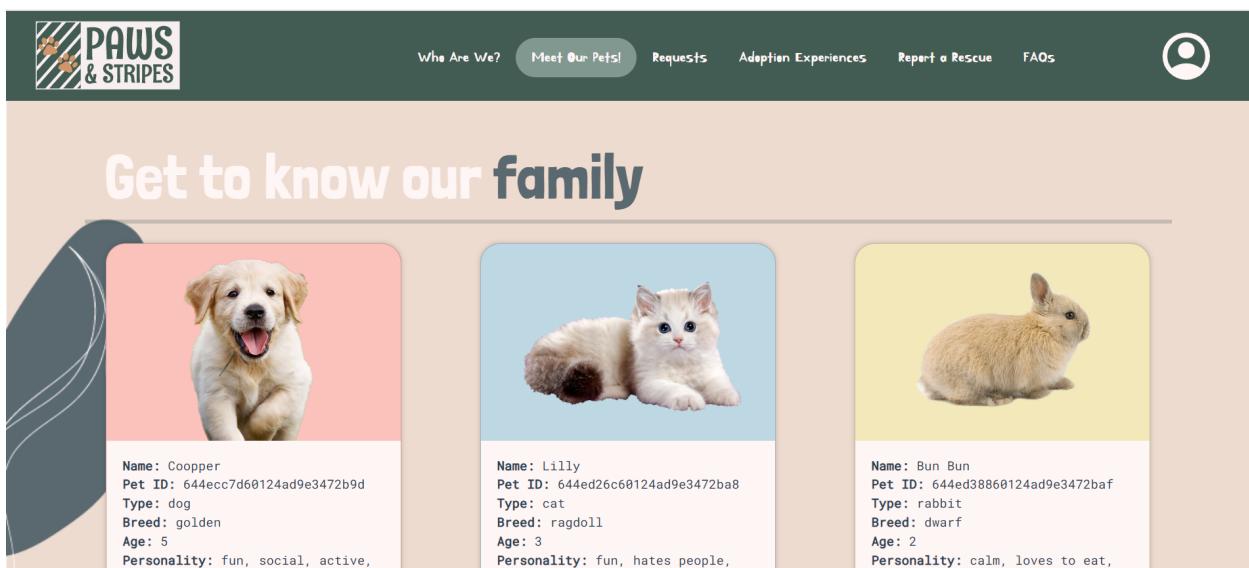
Sign up Page



A sign-up form with fields for First Name, Last Name, Email, Phone Number, Password, Confirm Password, Gender (Male), Age, and Region (Riyadh). The URL 127.0.0.1:3001/signup# is visible at the bottom.

First Name:	Last Name:	
Email:	Phone Number: 05-XXXXXXX	
Password:	Confirm Password:	
Gender: Male	Age:	Region: Riyadh

This is the sign up page for visitors to create their accounts



The website features a dark green header with the logo "PAWS & STRIPES", navigation links for "Who Are We?", "Meet Our Pets!", "Requests", "Adoption Experiences", "Report a Rescue", and "FAQs", and a user profile icon.

Get to know our family



Name: Cooper
Pet ID: 644ecc7d60124ad9e3472b9d
Type: dog
Breed: golden
Age: 5
Personality: fun, social, active,

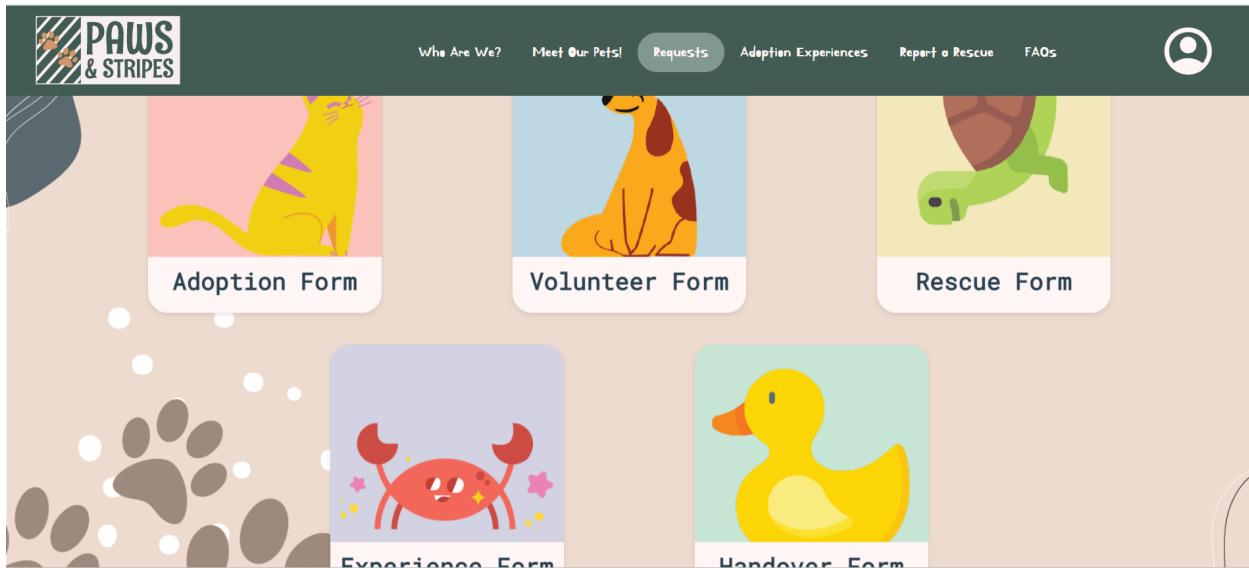


Name: Lilly
Pet ID: 644ed26c60124ad9e3472ba8
Type: cat
Breed: ragdoll
Age: 3
Personality: fun, hates people,



Name: Bun Bun
Pet ID: 644ed38860124ad9e3472baf
Type: rabbit
Breed: dwarf
Age: 2
Personality: calm, loves to eat,

Meet our pets page where it has all the pets and their information that are available for adoption. In addition is has an adopt button that the user can click to adopt the wanted pet



Request page that has all the different types of forms that the website has. Clicking on any form will directly lead you to fill the form. Clicking on the rescue form will direct you to the report on a rescue web page.

A screenshot of the 'Adoption Form' page. The header is identical to the main site. The main content area is titled 'Adoption Form'. It contains several input fields: a question about previous pet experience with 'Yes' and 'No' radio buttons; a dropdown for 'What breed is your animal?' with options like 'Nothing specific'; a slider for 'How many people do you live with?' ranging from 0 to 10; a dropdown for 'What pet do you want?' with 'Nothing specific' selected; a dropdown for 'What is your mbti?' with 'Select mbti' selected; and a question about providing a secure environment with 'Yes' and 'No' radio buttons. A 'Submit' button is at the bottom right.

This is the adoption form that the user must fill to adopt the wanted animal. Their form will be sent and reviewed.

The screenshot shows the PAWS & STRIPES website with a dark green header. The header includes the logo "PAWS & STRIPES" with paw prints, and navigation links: "Who Are We?", "Meet Our Pets!", "Requests" (which is highlighted in a red oval), "Adoption Experiences", "Report a Rescue", and "FAQs". A user icon is also present.

Volunteer Form

Have you ever volunteered in any animal shelter before?

Yes
 No

What animals are you familiar with?

Cats
Dogs
Fish
Frogs
Rabbits
Turtles

If yes, how long is the duration of your volunteer service in months?

Select the areas that you would like to volunteer in:

Rescuing
 Transportation
 Pet Screening
 Clinic
 Office
 Adoption Work

This form will allow the user to select the preferred type and area where he/ she likes to volunteer.

The screenshot shows the PAWS & STRIPES website with a dark green header. The header includes the logo "PAWS & STRIPES" with paw prints, and navigation links: "Who Are We?", "Meet Our Pets!", "Requests" (highlighted in a red oval), "Adoption Experiences", "Report a Rescue", and "FAQs". A user icon is also present.

Experience Form

Provide us a picture of the adopted animal:

No file chosen

Please share your adoption experience and your kind feedback on the volunteering services that the shelter provides:

Please provide us with your pet's name

Lucy

Do you prefer your experience post to be anonymous?

Yes

Do you wish to share this experience post on our website?

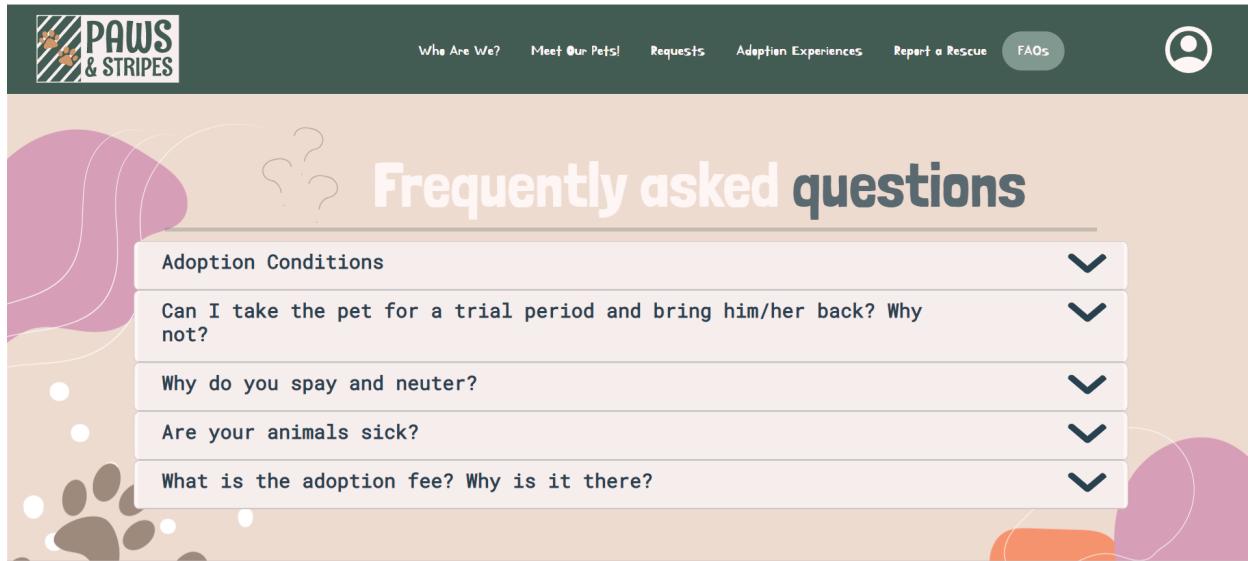
The user can share his/her experience form in two ways, either by clicking the experience form and being directed to this page or by clicking the adoption experience above.

The screenshot shows the 'Adoption Experience' section of the website. At the top, there's a navigation bar with links: 'Who Are We?', 'Meet Our Pets!', 'Requests', 'Adoption Experiences' (which is highlighted in a blue box), 'Report a Rescue', and 'FAQs'. There's also a user icon. Below the navigation, the title 'Adoption Experience' is displayed in large, bold, dark blue letters. Underneath the title are two buttons: 'all experiences' and 'my experiences'. To the right of these buttons is a small orange circle with a white plus sign. Below the buttons are three cards, each featuring a photo of a pet and its name. The first card shows a white rabbit named Dash. The second card shows an orange cat named Dora. The third card shows a brown and white rabbit named Peter. Each card also includes the text 'User: Anonymous'.

By clicking the adoption experience above, the user will be directed to this page where he/she can see all the experiences, add a new experience, and add his/her own experience.

The screenshot shows the 'Handover Form' section of the website. The top navigation bar is identical to the one above. The main title 'Handover Form' is centered in large, bold, dark blue letters. Below the title is a form with several input fields. The first row contains a text input for 'What is your pet's name?' and a radio button group for 'Are you able to foster the animal until adopted?' with options 'Yes' (selected) and 'No'. The second row contains dropdown menus for 'What type is your pet?' (set to 'Cat'), 'How old is your pet?' (empty), and 'What breed is your animal?' (set to 'Labrador Retriever'). The third row contains a dropdown menu for 'What is your animal's personality?' (options: Fun, Social, Calm, Active) and a text input for 'Why do you want to handover your pet?'. At the bottom left of the form area, there is a URL: '127.0.0.1:3001/requests/handover-form#'

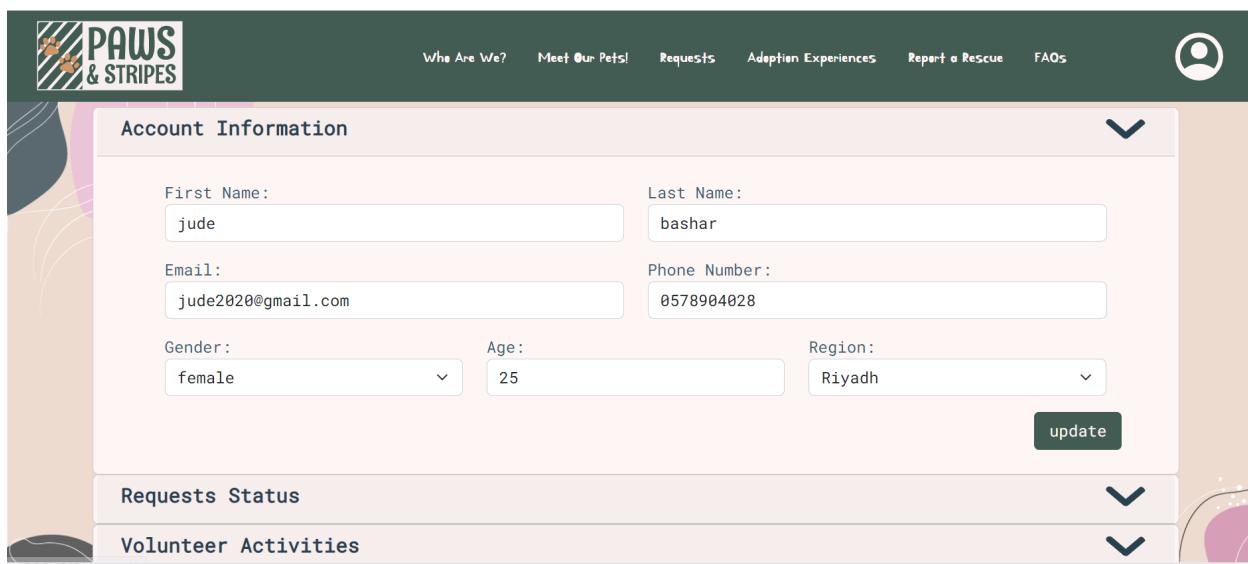
The handover form allows the user to send a request if he/she wants to hand over the pet he/she has.



The screenshot shows the 'Frequently asked questions' section of the Paws & Stripes website. The background features a light beige color with abstract paw print and question mark illustrations. At the top, there's a navigation bar with links: Who Are We?, Meet Our Pets!, Requests, Adoption Experiences, Report a Rescue, and FAQs. A user profile icon is also present. The main title 'Frequently asked questions' is displayed prominently in large, bold, white font. Below the title is a list of five questions, each with a collapse arrow to its right:

- Adoption Conditions
- Can I take the pet for a trial period and bring him/her back? Why not?
- Why do you spay and neuter?
- Are your animals sick?
- What is the adoption fee? Why is it there?

The page has all the frequently asked questions that users and any visitors can have access to them



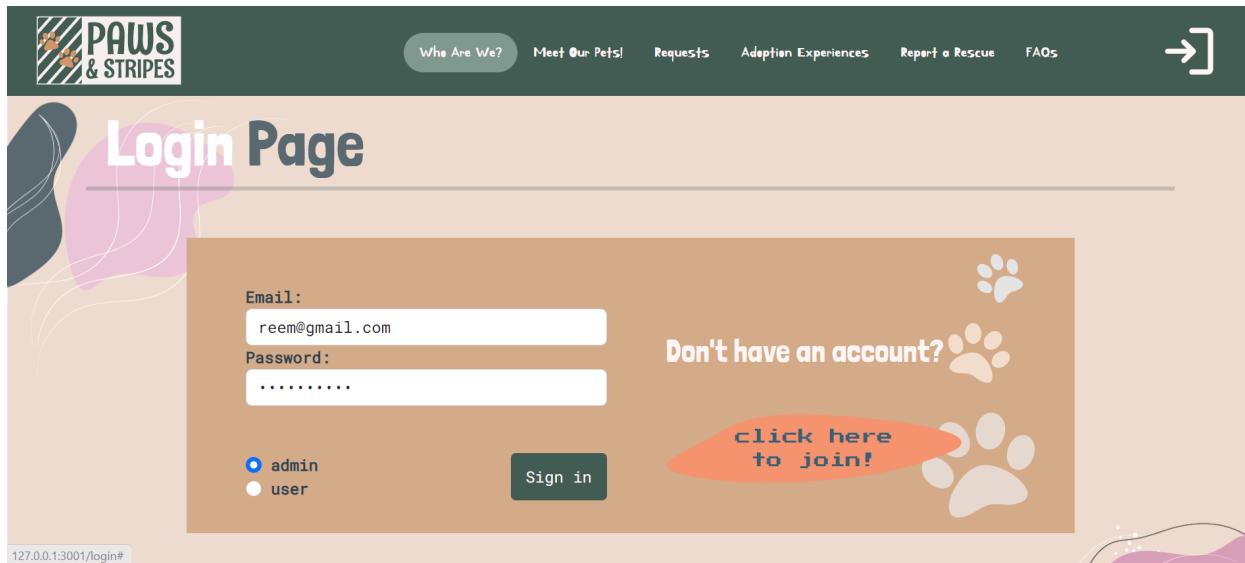
The screenshot shows the 'Account Information' section of the Paws & Stripes website. The background features a light beige color with abstract paw print and question mark illustrations. At the top, there's a navigation bar with links: Who Are We?, Meet Our Pets!, Requests, Adoption Experiences, Report a Rescue, and FAQs. A user profile icon is also present. The main title 'Account Information' is displayed prominently in large, bold, black font. Below the title is a form with fields for personal information, each with a collapse arrow to its right:

First Name:	jude	Last Name:	bashar
Email:	jude2020@gmail.com	Phone Number:	0578904028
Gender:	female	Age:	25
Region:	Riyadh	update	

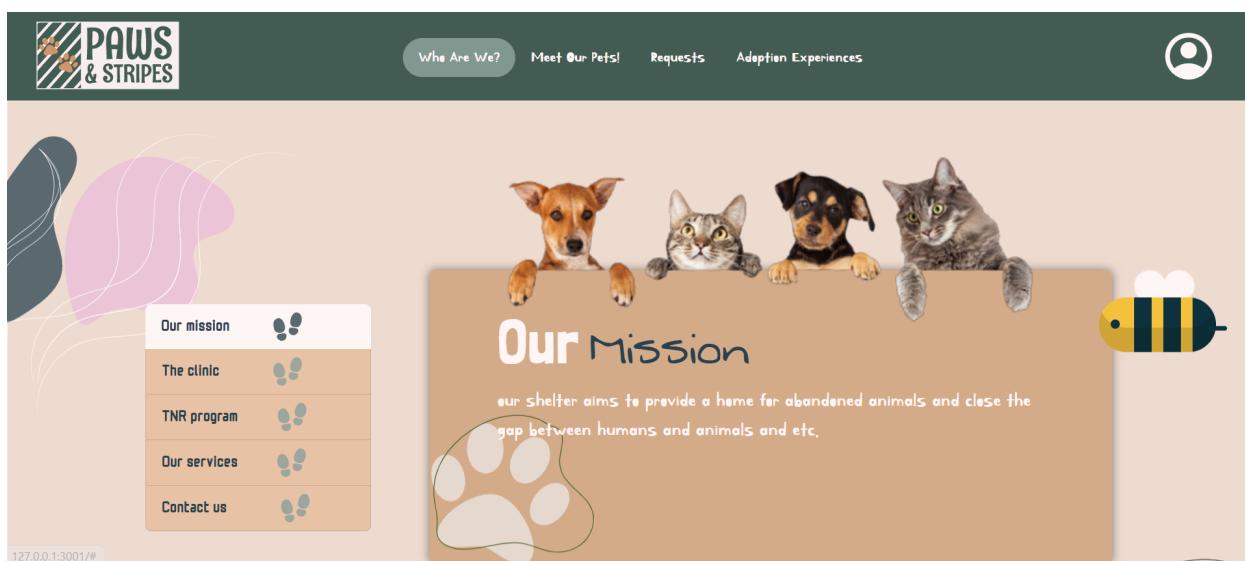
Below the form are two additional sections with collapse arrows:

- Requests Status
- Volunteer Activities

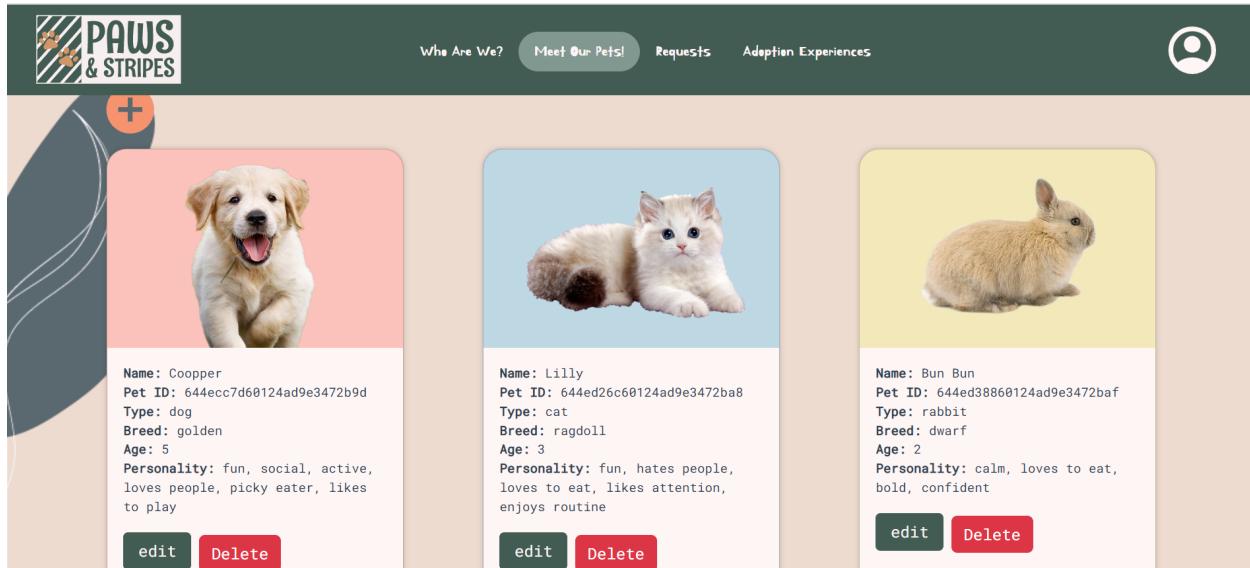
The account page has all the user's account information, request status, and volunteer activities. In addition, the user can logout and delete his/her account.



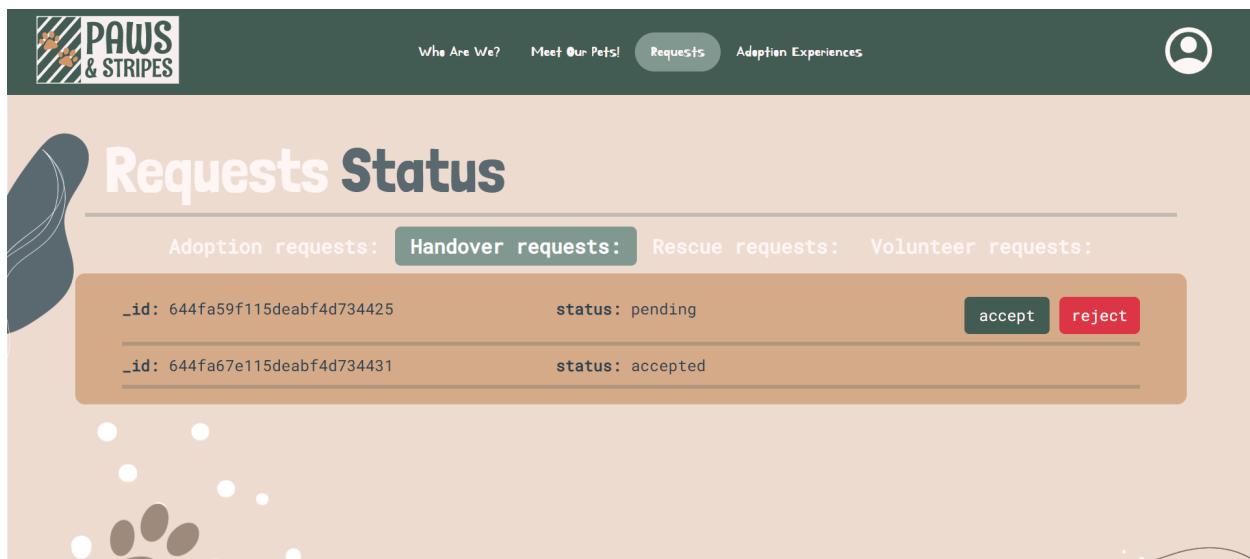
The admin can login from this page by entering the email address and password.



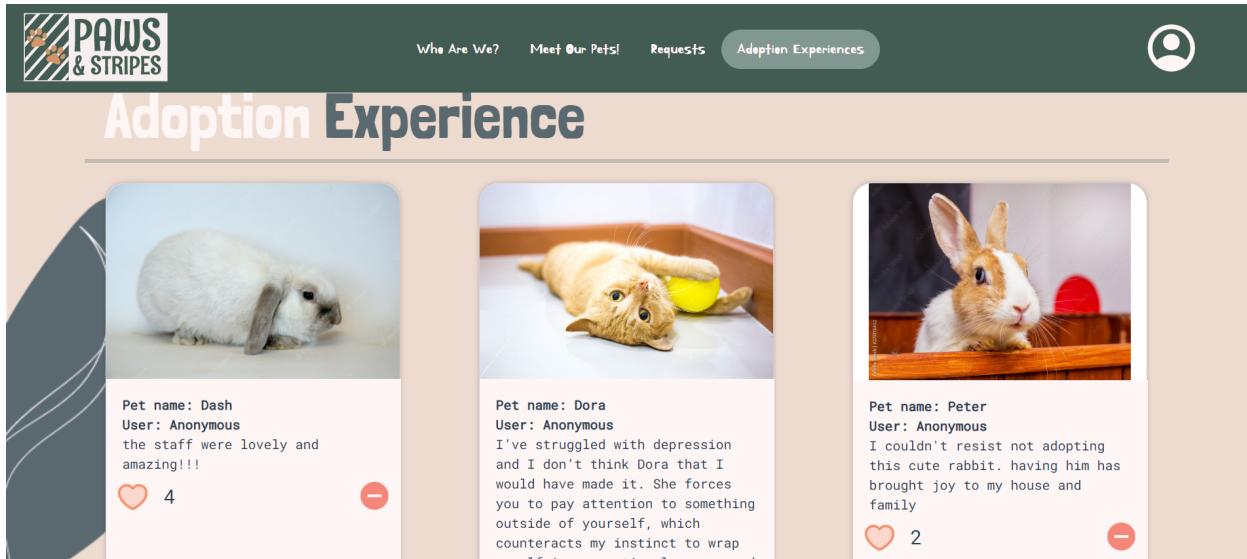
These features are available for the admin where he/she can access the meet our pets page, requests and adoption experiences.



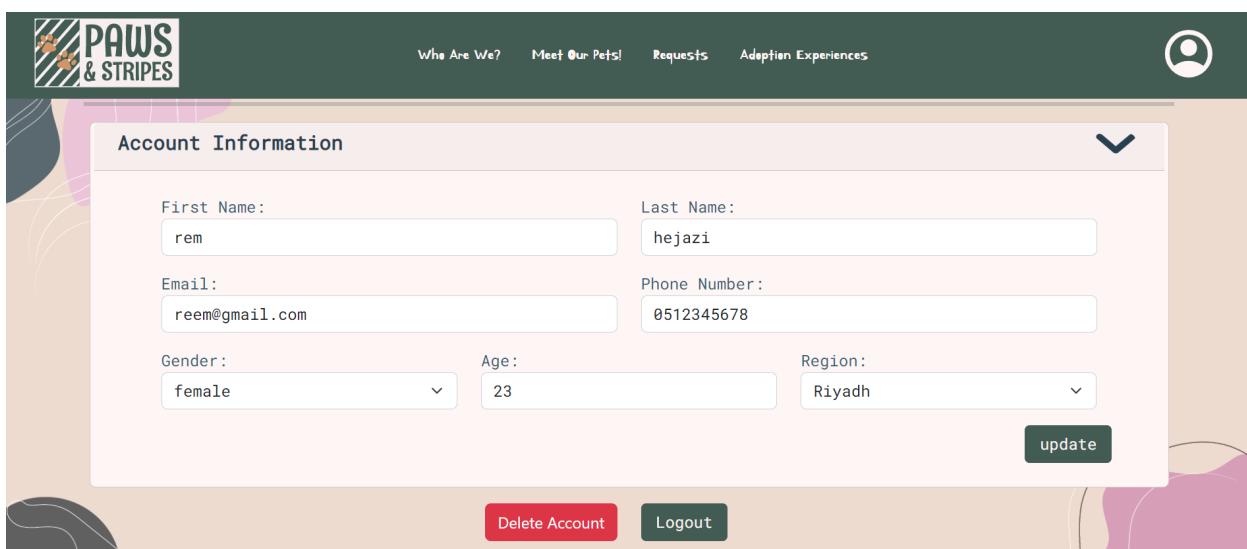
The admin can access all the animals, add new animals, edit and delete already added animals.



The admin can view all the requests and accept or reject them.



The admin can view all the animals and remove any on them



This is the admin's account page where he/she can update or delete the account. In addition, the admin can logout.

Publishing Our Website:

- 1) We have looked for a platform that freely supports publishing our website which uses Node.js/EJS. We followed this process using Render.com platform:
<https://www.youtube.com/watch?v=bnCOyGaSe84>
- 2) We have also collaboratively worked on it via Github
<https://github.com/rem2718/paws-stripes>

3) Our published website as a link:

<https://paws-stripes.onrender.com>