

# **PawHaven**

## **An Animal Adoption Application**

### **REVIEW 3 REPORT**

*Submitted by*

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*for*

**HUMAN COMPUTER INTERACTION**  
**(CSE 4015)**  
**J COMPONENT**

*Submitted to*

**Prof. Jenicka S**

School of Computer Science and Engineering



APRIL 2022

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## Acknowledgement

We take immense pleasure in thanking **Dr. G. Viswanathan**, our beloved Chancellor, VIT University and respected Dean, **Dr K. Ramesh Babu**, for having permitted us to carry out the project.

We express gratitude to our guide, **Prof. Dr. S. Jenicka**, for guidance and suggestions that helped us to complete the project on time. Words are inadequate to express my gratitude to the faculty and staff members who encouraged and supported us during the project.

Finally, we would like to thank our ever-loving parents for their blessings and our friends for their timely help and support.

Signature of students

Praneel Jimmy

Date: 23/04/2022

Samarth Arora

Aryan Vats

## **Abstract**

In this project we aim to create a centralized and one stop solution to enable the targeted users with a chance to interact with the website and locate for their nearest shelter home (and/or) find their next pet to adopt which would otherwise be a troublesome process like manually searching for shelter homes (and/or) pets in Newspapers, Magazines, Mutual Connections, Internet Articles, etc. Through this project there is better connectivity among the shelters and the potential adopters, keeping Animal Rescue in mind. The individuals registered with the application can also get in touch with their nearest animal rescue shelters in case they find a victim of animal abuse. The platform also provides the ability to sort the nearby shelters on the basis of their ranking that is found by applying sentiment analysis on the reviews left by previous users who interacted with the shelter.

## **Introduction**

Animal Cruelty is still prevalent in the 21st century despite there having been several laws and regulations introduced with regard to this subject. Selling, auctioning and abuse of animals is a major issue that needs to be addressed and needs to be regulated.

Since this requires complicated legal procedures, with this project we instead aim to connect the organizations that mainly work in animal adoption directly with the people who are interested in adopting animals rather than buying them.

In this way we believe there would be substantial decrease in the number of animal cruelty cases and would be a great way to keep records on the rescued animals and the shelters.

Rescue and Shelter homes in this distributed network would have access to all adopted animals and this would bring in transparency further easing the process of adoption of animals.

# **Requirements Analysis**

## **Functional Requirements**

### **1. Regarding all System Users**

- 1.1. The system will allow all users to login to their account.
- 1.2. The system will allow all users to logout of their account.

### **2. Regarding Potential Adopters**

- 2.1. The system will allow users to create a profile for use in the system.
- 2.2. The system will display all animals in the system for a user.
- 2.3. The system will allow users to look at a more detailed description of any animal that they wish to view.
- 2.4. The system will allow users to contact the shelters from which they wish to adopt the

### **3. Regarding Shelter Users**

- 3.1. The system will allow shelter users to input the information for a single animal for their shelter into the system.
- 3.2. The system will allow shelter user to change the information about an animal contained within the system, e.g. personality traits,
- 3.3. The system will allow shelter users to remove the details of an animal from the system.
- 3.4. The system will notify the shelter if a user has expressed interest in an animal.

### **4. Regarding Administrative Users**

- 4.1. The system will allow admin users to create shelter for the system.
- 4.2. The system will allow admin users to remove shelters from the system.
- 4.3. The system will allow admin users to create shelter users.
- 4.4. The system will allow admin users to delete shelter users from the system.
- 4.5. The system will allow admin users to create admin users.
- 4.6. The system will allow admin users to “delete” admin users from the system.

## **Non-Functional Requirements**

### **1. Usability Requirements**

- 1.1. The User Interface must be easy to use and understand.
- 1.2. The Login and Registration processes must be streamlined and user-friendly.
- 1.3. There must be confirmation messages before the user commits any important data.

### **2. Reliability Requirements**

- 2.1. Each data record is stored on a well-built efficient database schema. There is no risk of data loss. The internal evaluation of data is well coded.

### **3. Supportability Requirements**

- 3.1. The system is well built to support any machine. Maintainability of the system is easy.

### **4. Security Requirements**

- 4.1. The user data must be secured with appropriate passwords and usernames.
- 4.2. The user data must be stored securely on the database.
- 4.3. The user data must not be used without their consent.

### **5. Performance Requirements**

- 5.1. The response time of the system must be very low and searching algorithms must be optimized in order to achieve this.
- 5.2. The system must be able to support a large number of concurrent users without causing a system failure/crash.

### **6. Availability Requirements**

- 6.1. The system is available all the time, no time constraint.

### **7. Portability & Scalability Requirements**

- 7.1. The website must be compatible with different popular web browsers.
- 7.2. The website must also be usable on different devices such as desktops, laptops, tablets, and mobile phones.

## **8. Ethical Requirements**

- 8.1. The user must be informed of all their rights and obligations when they register on the website.
- 8.2. All the risks of any services provided must be disclosed to the patients.

## **Task Analysis**

### **Goals**

To develop an application that will allow for the following:

- Allow users to view the details about the rescue animals that are currently present in shelter homes.
- Provide users with a way to communicate with the shelter homes if they have animals that they wish to provide to the shelter homes.
- Allow users to learn the legal rules and educate themselves on the approach to be taken for the adoption process.
- Provide a way for the users to connect with the appropriate authorities in regards to the adoption process of animals.
- Allow users to view details about the various organizations that are involved in this work.

### **Additional Goals**

The following additional goals may also be implemented as part of the future works:

- Allow users to provide any kind of monetary help in the form of donations to the animal shelters.
- Allow users to provide reviews about the authenticity of organizations and the experience of working with the mentioned organizations.

### **Plans**

- Collect data regarding the animal shelters and create a database containing the above-mentioned information in an organized manner that can be utilized for the purpose of making a web application that can be used to fulfill the goals mentioned above.
- Map out and plan the organization of the web application such as various sections and modules.

- Create a schedule to complete the application in an organized manner by providing enough time to create an app that is both functional as well as visually appealing.
- Implement individual modules and finally integrate all the modules together into a cohesive application and test for bugs and errors.
- Test the proper functioning of the application.

## **Information**

Organizations involved in animal adoption services(for eg):

- Petfinder
- Adopt a Pet
- ASPCA
- PetSmart Charities
- AKC Rescue Network
- The Shelter Pet Project
- Rescue Me

Participating animal shelters(for eg):

- People For Animals
- Charlie's Animal Rescue Center
- Friendicoes
- Bombay Society For The Prevention Of Cruelty To Animals (BSPCA)
- Sanjay Gandhi Animal Care Center (SGACC)

Laws and Rules regarding animal adoption and animal cruelty:

- The Prevention of Cruelty to Animals Act, 1960
- The Wildlife Protection Act, 1972
- The Animal Welfare Act, 1998
- Draft Animal Welfare Act, 2011

Team Members' contact details:

- Praneel Jimmy (19BCE0277) - 9567765536
- Samarth Arora (19BCE0334) - 7507224228
- Aryan Vats (19BCE0336) - 8767889008

Meeting Schedule:

- Weekdays (2/3 Days a Week Depending on Member's Schedules) - 20:00 to 21:30
- Weekends and Holidays - 18:00 to 21:00

Software Requirements:

- Atom Text Editor
- Flask
- Python
- SQLite

## Objects

- Laptops
- Members' Schedule Sheet
- Microsoft Teams for members' contact details
- Microsoft Teams for members' registration numbers

## Methods

- Whatsapp Group Calls
- Slack
- Google Meet
- Discord Conference
- Email

## Objectives

- Contacting team members.
- Obtaining responses.
- Completion of application development milestones.
- Integration of individual application modules into the final application.
- Testing for errors and bugs.
- Debugging and final touches.

## Procedures

- Setting up a Slack/Discord server to have a common ground for discussions, ideas, code bugs, solutions for the project.
- Ensuring that all the links and reminders for meetings and deadlines would be linked to this server so as to have easy access and flexible schedules.
- Dividing and assigning tasks to team members based on the abilities of the team members and what they specialize in.
- Conducting regular meetings to review the work done and also set deadlines for the next part of work to be done.
- Ensuring quality of work done and redoing certain modules if required.
- Integrating modules into the final application.
- Setting up meetings for error testing and debugging and completing the application.

## Contingencies

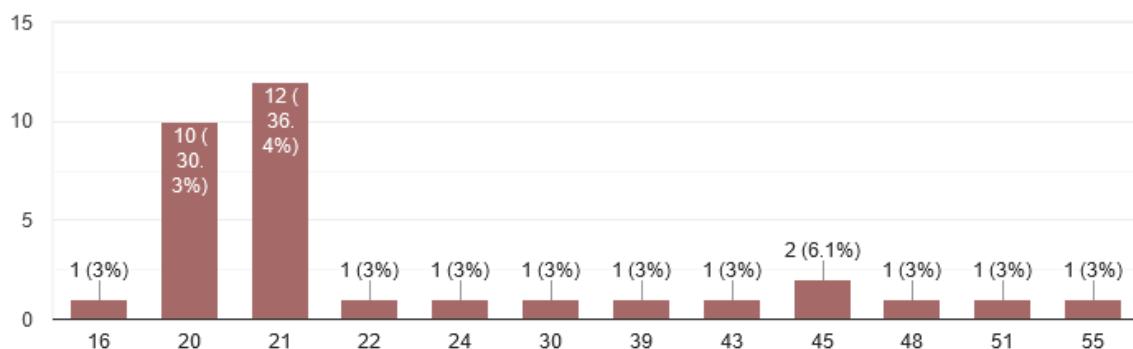
- Google Reminders to ensure that no planned meets are missed.
- Regular task completion checks to ensure that the schedule is being followed.
- Monitor team members' presence by checking online presence on messaging platforms such as Whatsapp/Discord.
- Implementation of a system of checks and balances to make sure that the members themselves ensure that the other members perform their tasks properly and according to the decided timeline.

## Data Collected

### User Responses

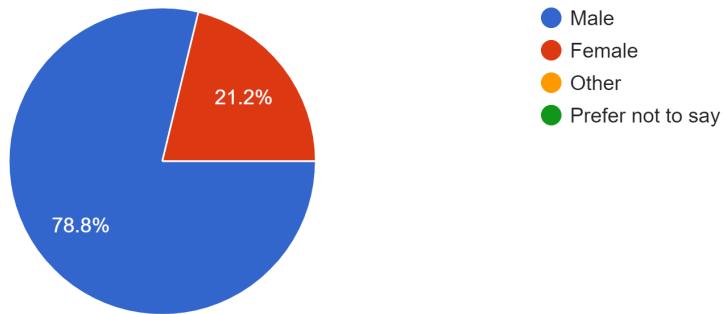
#### Age

33 responses



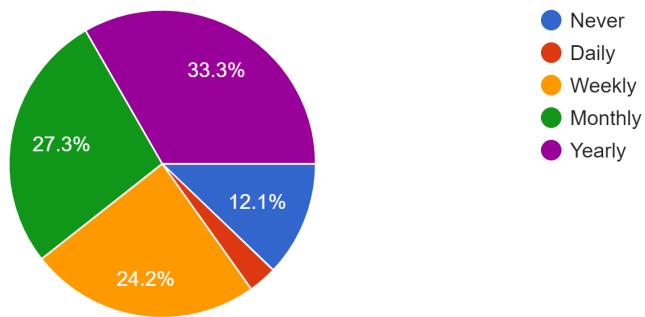
### Gender

33 responses



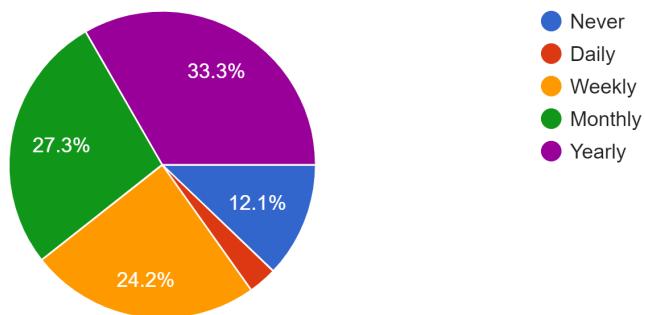
### How often have you noticed instances of Animal Cruelty?

33 responses



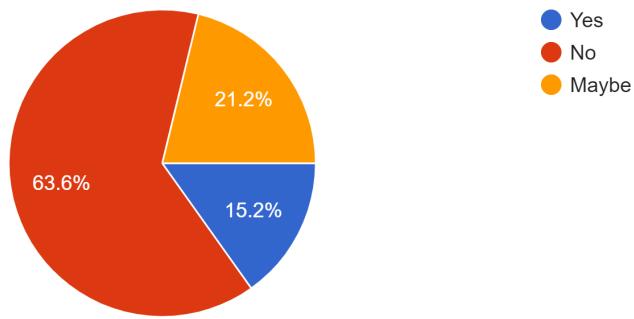
### How often have you noticed instances of Animal Cruelty?

33 responses



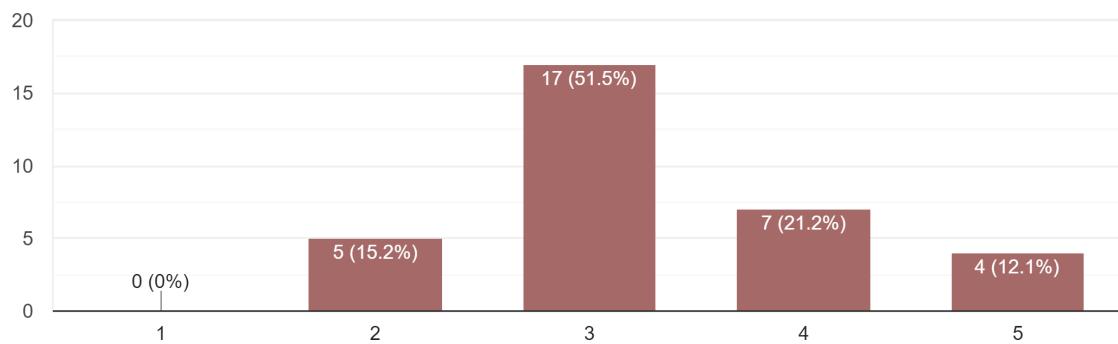
Have you ever considered (Or actually have) adopted these victims?

33 responses



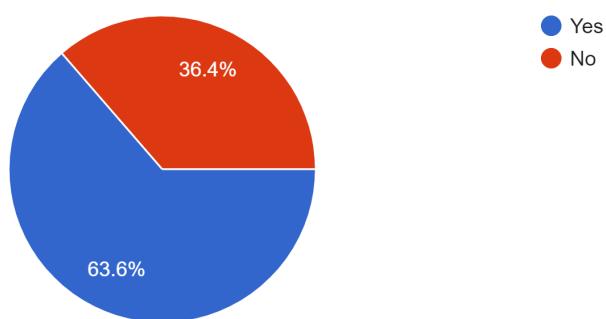
How easy would you rate your accessibility to it? (5 being most accessible)

33 responses



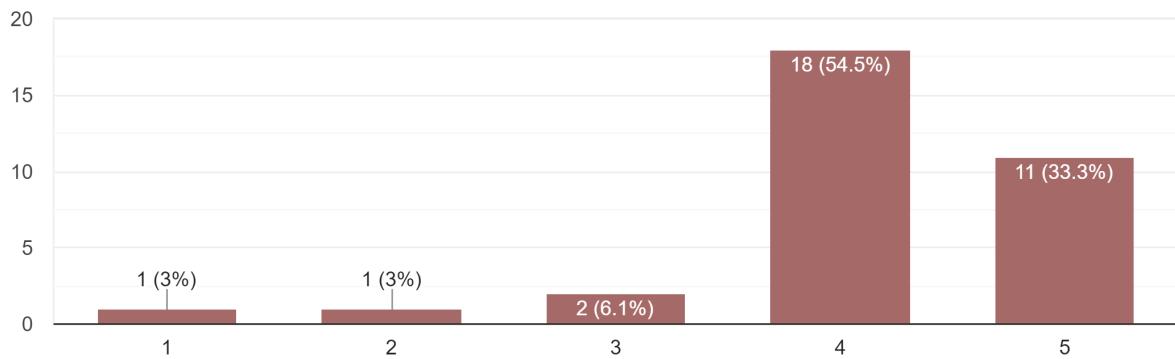
Would you be interested in sponsoring an animal charity? (If already sponsoring a charity click 'Yes')

33 responses

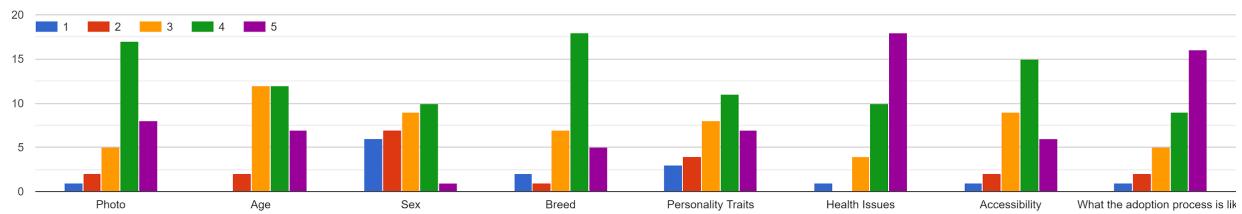


Do you believe there is need of such a website? ( 5 being Yes, there is an urgent need)

33 responses



What functionalities do you believe would help this system and what extra features could be considered in the website to have a better system. (Rank them in order of importance with 5 being the most important and 1 being least.)



## User Profile

Sr.No	Age	Gender	How often have you noticed instances of Animal Cruelty?	Have you ever considered (or actually have) adopted these victims?	How much do you believe there is a need of having animal rescue shelter (Rate out of 5)	How easy would you rate your accessibility to it? (5 being most accessible)	Would you be interested in sponsoring an animal charity? (If already sponsoring a charity click 'Yes')	How much do you believe there is a need for having a central institution/management for these rescue shelters? (5 represents highly needed)	Do you believe there is a need for such a website? ( 5 being Yes, there is an urgent need)
1.	20	Male	Never	Maybe	4	3	Yes	5	4
2.	21	Male	Yearly	Maybe	5	3	Yes	3	4
3.	21	Male	Yearly	Maybe	5	2	Yes	5	4
4.	21	Male	Weekly	Maybe	5	3	Yes	5	5
5.	21	Male	Yearly	Maybe	5	3	Yes	5	5
6.	20	Male	Monthly	Maybe	4	3	No	3	4
7.	45	Female	Never	Maybe	4	4	Yes	3	4
8.	20	Male	Yearly	No	4	2	No	4	4
9.	16	Female	Weekly	No	5	2	No	5	4
10.	39	Female	Yearly	No	5	3	No	4	4
11.	43	Male	Monthly	No	5	2	Yes	5	5
12.	48	Male	Yearly	No	5	3	Yes	5	5
13.	21	Male	Monthly	No	3	3	Yes	4	4
14.	51	Female	Monthly	No	5	3	Yes	5	4
15.	55	Male	Monthly	No	5	3	No	5	4
16.	20	Male	Yearly	No	5	4	No	5	4
17.	45	Male	Weekly	No	4	3	Yes	4	3
18.	20	Male	Weekly	Yes	5	4	No	5	4

19.	21	Male	Daily	Yes	5	5	Yes	5	5
20.	21	Female	Monthly	Yes	4	3	Yes	4	4
21.	30	Female	Weekly	Yes	4	2	Yes	5	5
22.	24	Female	Monthly	Yes	5	4	Yes	4	5

**Note: we had 33 data points but we only considered those who were willing to adopt.**

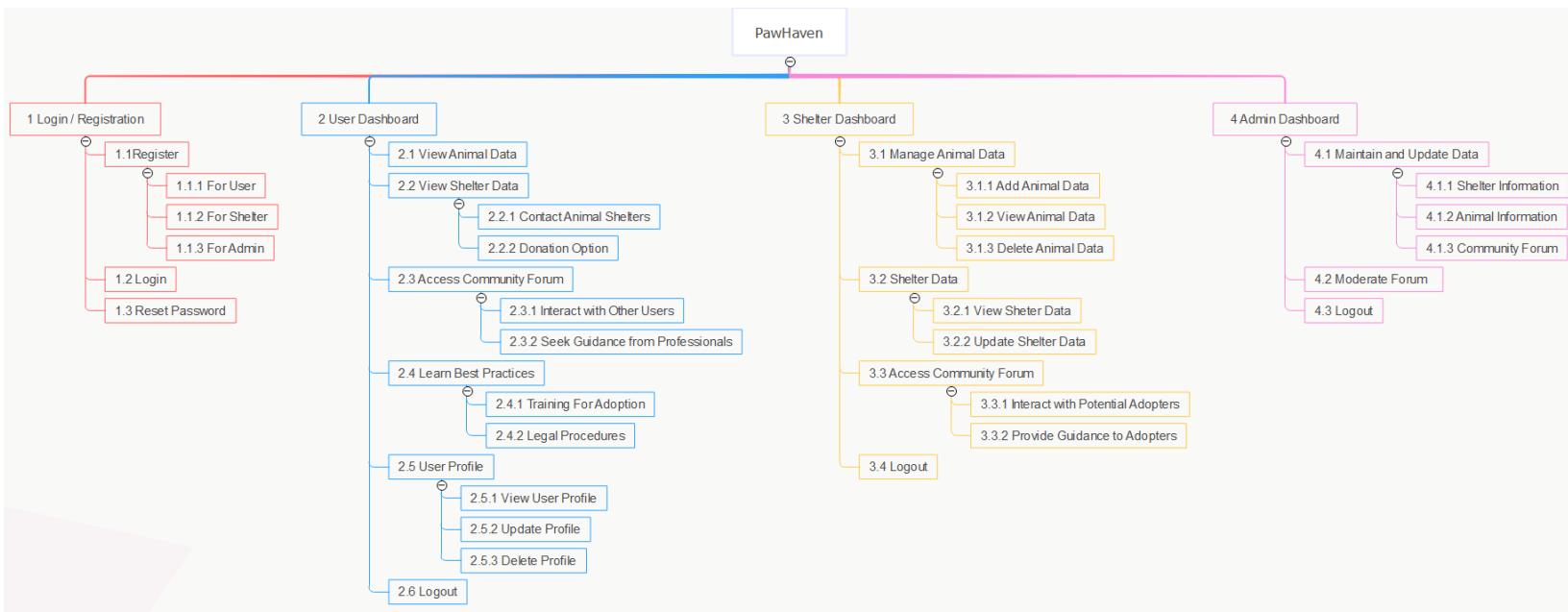
## Summary

Overall from the survey we made these were the points that could summarize for the User Categories, Profiles that were been deduced by us:

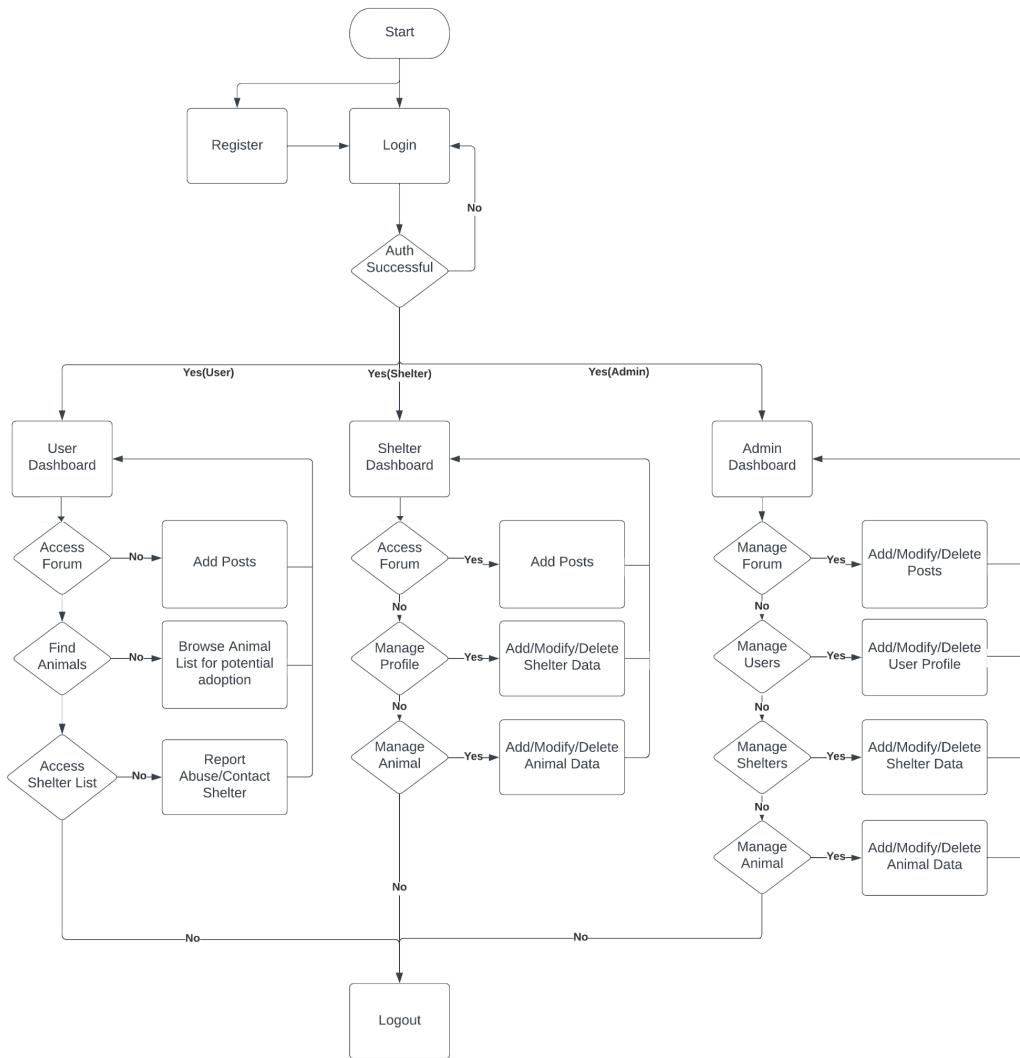
- Out of all the results that we received, most of the responses expressed the fact that they had been witnesses to instances of animal cruelty.
- There is a major portion of User Profile which heavily notices animal cruelty about weekly to monthly.
- However, the number of people who were actually willing to consider adopting such animals or those who have already adopted such animals was a minority.
- Further, we raised the question of whether they considered the existence of an animal shelter to be necessary or not to which we received considerably positive replies with over 90% of the replies stating that they considered the existence of an animal shelter to be important.
- We also raised the question of whether they currently had access to an animal shelter to which the responses were not so favorable with almost 50% of the users stating that while the access to such shelters was not extremely difficult, it was also not easily accessible either.
- Over 60% of the responses saying that they would be inclined towards financially supporting such institutions.
- According to the results from the survey, several of the responses pointed out the fact that they felt it would be beneficial if there existed an application that would streamline and centralize this process.
- Thus, we believe that if this Web App is mainstreamed, it could majorly work as a platform where users could approach shelters for the purpose of adoption as well as shelters could post details of the animals present in shelters.
- Also, it can act as an emergency service which users could use to contact animal shelter to take care of a victim of animal cruelty.
- Furthermore, the users could also gain guidance from the shelters on how to better care for such animals and learn to be more compassionate human beings.

# Data Flow

## Hierarchical Task Analysis (HTA)



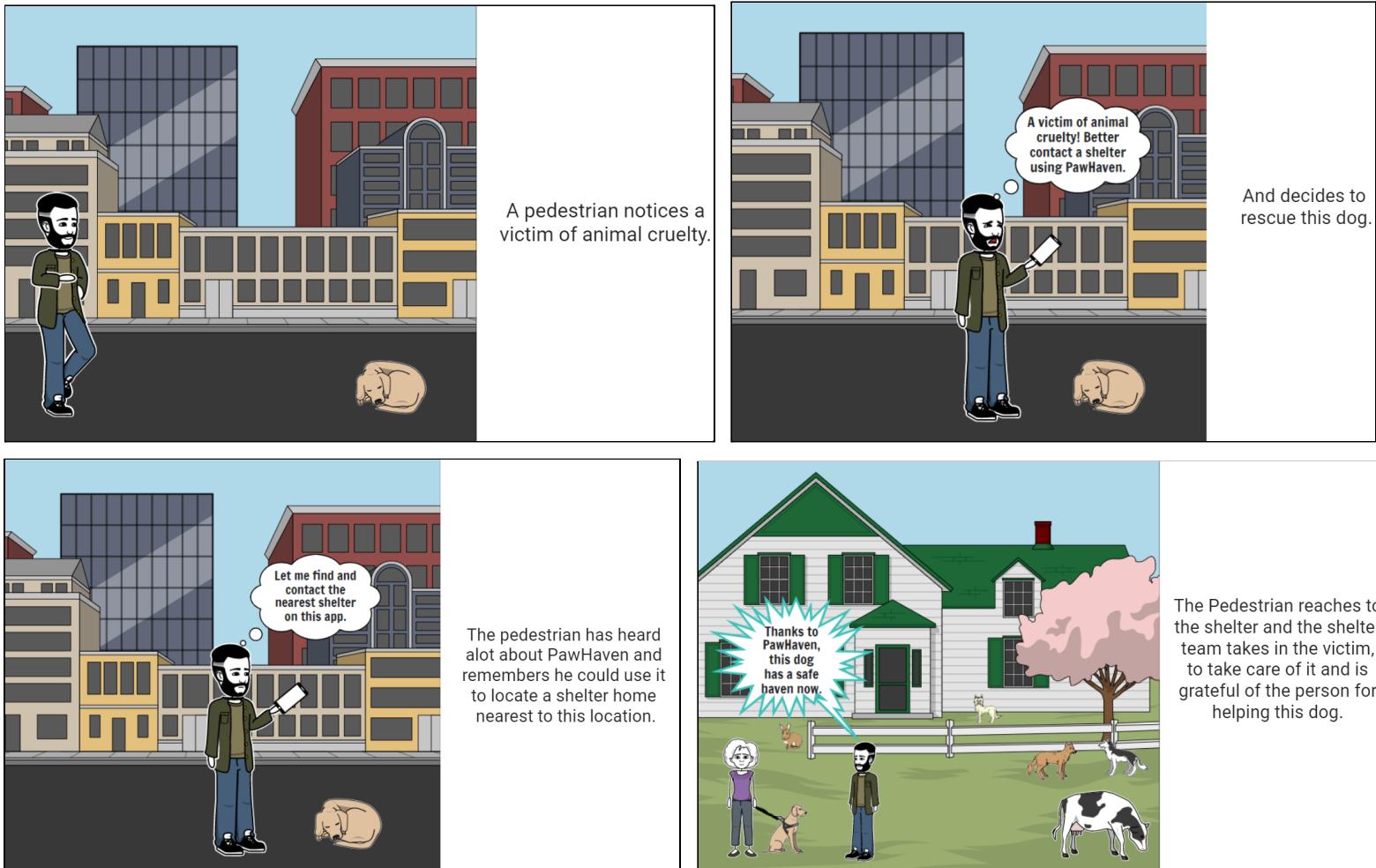
# Data Flow Diagram



## StoryBoard

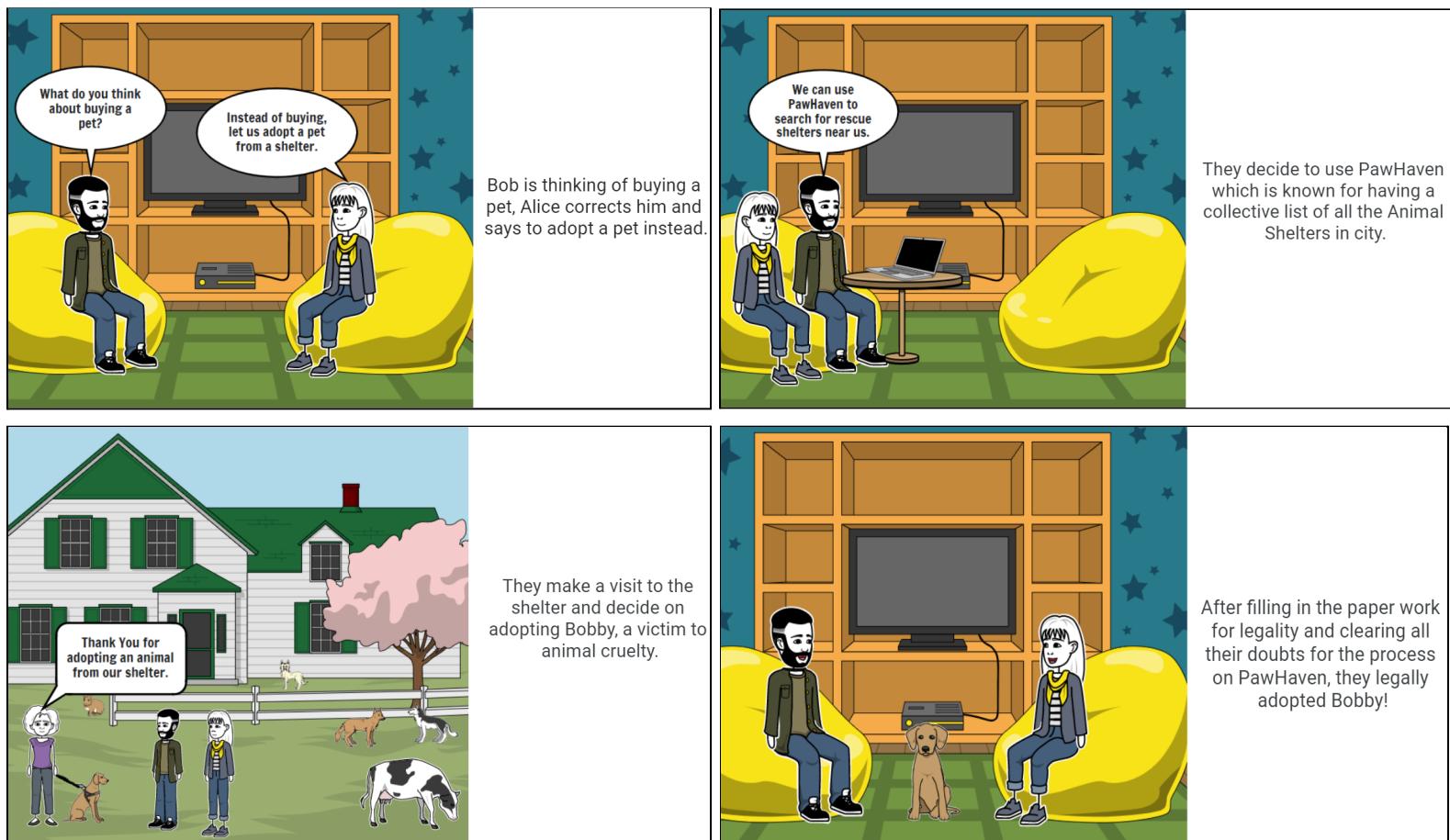
### Scene 1

Person found a Victim  
of Animal Cruelty on  
the road



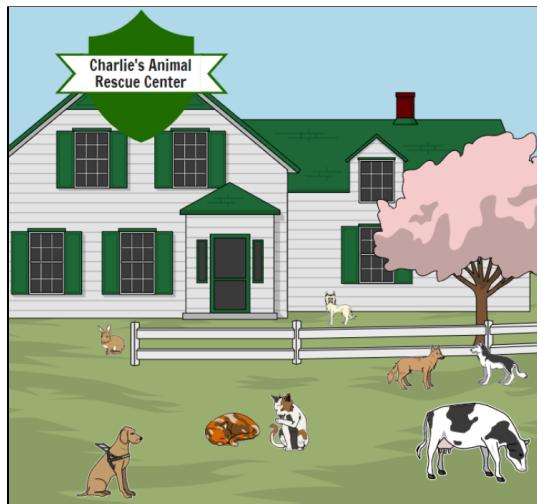
# Scene 2

Person  
looking to  
adopt a pet



# Scene 3

Rescue Shelter  
Registering themselves



On a very fine day in Charlie Animal Center



Alice brainstorms on the popularizing her rescue shelter



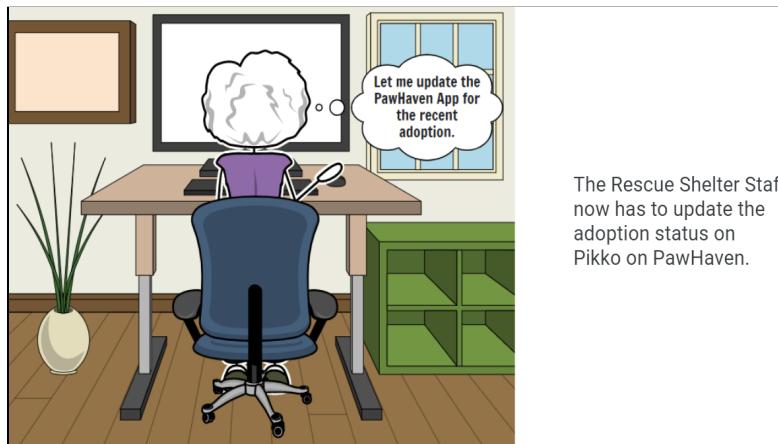
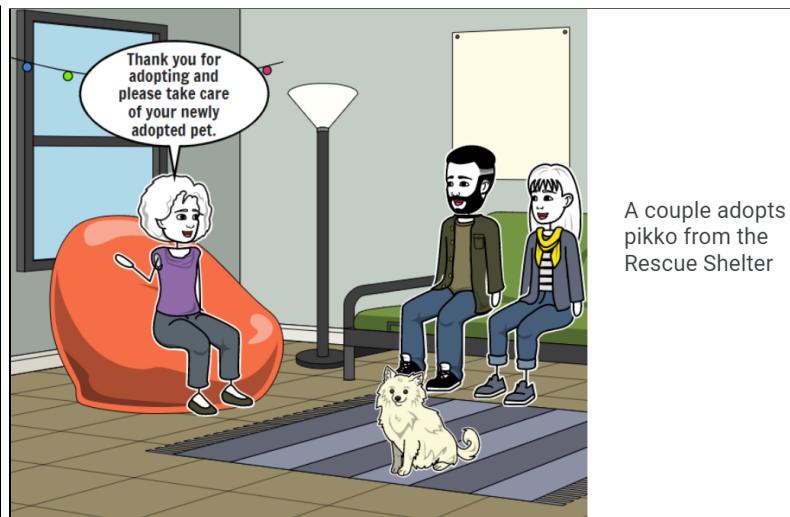
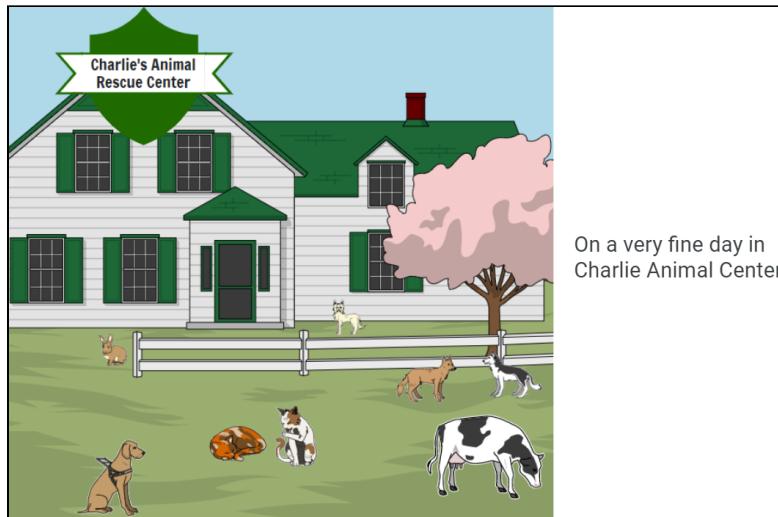
She decides to register herself on PawHaven to bring recognition to her rescue shelter.



Adopters notice Charlie Adoption Center which is nearby their locality and this popularizes the rescue shelter spreading the word about animal adoption.

# Scene 4

Rescue Shelter  
maintaining Animal Records



## **Module Description**

### **Login / Signup Module**

This module comprises the login and the registration processes.

- For the login process, the user can enter his/her credentials which will then be cross verified with the existing database of users.
- If the user's credentials exist and are verified correctly then the user will be authenticated and will be able to move on to the appropriate dashboard. If the user's username is correct and the password does not match then the user will be requested to enter the correct credentials once again. If the username itself does not exist in the database, then the user will be redirected to the registration page where he/she will be requested to create a new account.
- For the registration process, the user will first be asked to determine whether they want to be categorized as an adopter, a shelter owner or the admin. After that, the user will be asked to enter their first name, last name, age, email address, mobile number, username and password. After entering all these details, the user profile will be created and added to the database and the user will be moved onto the appropriate dashboard.

### **User Module**

The user module will start at the user dashboard where they will be presented with four choices.

- The users will have the choice to look for animals to adopt where they will be presented with a list of animals that are available to be adopted along with their details such as name, age, type and also the name of the shelter that they are located at as well as the contact details of the shelter.
- The user will also have the choice to look for shelters which they can contact directly and conduct inquiries.
- The user also has the option to learn the best practices about animal safety and the process of adoption.

- The user also has the option to look at the community forum and interact with other users of the application and ask questions on topics that they are concerned about.

## **Shelter Module**

The shelter module will start at the shelter dashboard where they will be presented with two choices.

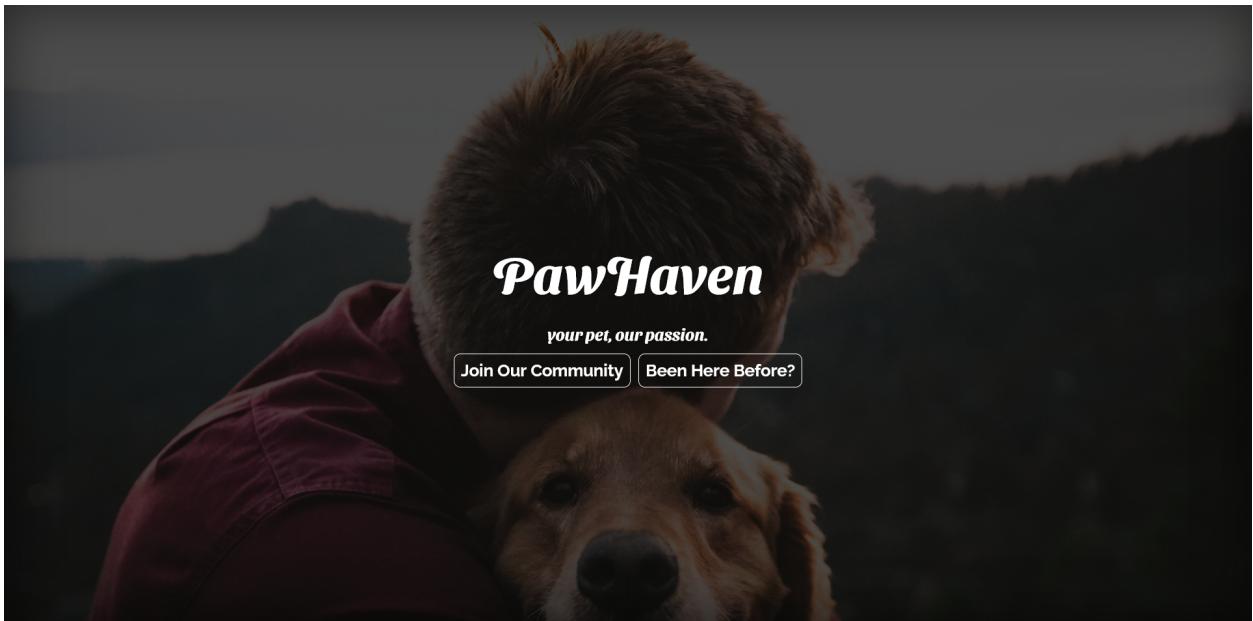
- They will have the option to modify and delete the data of the animals currently in the shelters and also the option to add new data of animals that are rescued and brought to the shelter.
- They will have the option to access the community forum to provide guidance to adopters and solve any queries that they have regarding adoption and caring for their pets.

## **Admin Module**

The administrator of the system can login to the admin module to control each and every aspect of the application. They can

- Manage and moderate Community Forum
- Create/Manage
  - Shelter
  - Animal Data
  - Application Users

## Design Screenshots



A light blue-themed screenshot showing a user selection interface. The title "Who Are You ?" is centered at the top in a bold, dark blue font. Below it are three dark blue rounded rectangular cards, each containing an icon and text. The first card on the left is labeled "Adopter" with a white dog icon. Supporting text below reads: "This is a wider card with supporting text below as a natural lead-in to additional content. This content is a little bit longer." The middle card is labeled "Shelter Owner" with a white house icon. Supporting text below reads: "This card has supporting text below as a natural lead-in to additional content." The third card on the right is labeled "Admin" with a white user profile and gear icon. Supporting text below reads: "This is a wider card with supporting text below as a natural lead-in to additional content. This card has even longer content than the first to show that equal height action."

**ACCOUNT LOGIN**

USERNAME

PASSWORD

**LOG IN**

[Haven't Registered?](#)

**REGISTER ACCOUNT**

FIRST NAME

LAST NAME

AGE

EMAIL ADDRESS

MOBILE NUMBER

USERNAME

PASSWORD

CONFIRM PASSWORD

**REGISTER**

[Already Registered?](#)

## Success!!

You have been logged in successfully!!

[Continue](#)

The screenshot shows the PawHaven website. At the top, there is a navigation bar with a logo, the text "PawHaven", and links for "Home" and "About". Below the navigation bar, the text "Welcome sam" is displayed. The main content area features four dark blue rectangular cards arranged in a 2x2 grid. Each card has a white icon and a heading. The first card on the top left has a dog icon and the heading "Find Animals to Adopt". The second card on the top right has a house icon and the heading "Look For Shelters". The third card on the bottom left has a speech bubble icon and the heading "Community Forum". The fourth card on the bottom right has a thumbs-up icon and the heading "Learn Best Practices". Each card also contains a small paragraph of placeholder text.

PawHaven

Welcome sam

Find Animals to Adopt

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

Look For Shelters

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

Community Forum

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

Learn Best Practices

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

The screenshot shows the PawHaven website's "Pets Looking for a Home" section. At the top left is the PawHaven logo, which includes a small house icon. The top right features a navigation bar with "Home", "About", and a dropdown menu. The main title "Pets Looking for a Home" is centered at the top. Below it are two dark blue rounded rectangular boxes, each containing a pet's name, type, breed, age, shelter name, and number.

**Lucy**

Type : Cat  
Breed : Sphynx  
Age : 3 Months  
Shelter Name: HugsNeeded  
Number: 91424503455

**Herman**

Type : Pig  
Breed : Red White Hog  
Age : 7 Months  
Shelter Name: HugsNeeded  
Number: 91424503455

The screenshot shows the PawHaven website's "Shelters You Can Reach Out To" section. At the top left is the PawHaven logo. The top right features a navigation bar with "Home", "About", and a dropdown menu. The main title "Shelters You Can Reach Out To" is centered at the top. Below it are two dark blue rounded rectangular boxes, each containing a shelter's name, contact information, manager name, rating, and comment buttons.

**House of Hope**

Contact Number : 9135454353  
Contact Email : blog@gmail.com  
Manager Name : Aryan Blouria  
Rating : ★★★

[View Comments](#)

[Add Comment](#)

**HugsNeeded**

Contact Number : 91424503455  
Contact Email : harsh.gulati@gmail.com  
Manager Name : Harsh Gulati  
Rating : ★★

[View Comments](#)

The screenshot shows a web page for PawHaven. At the top, there is a navigation bar with a house icon, the text "PawHaven", and links for "Home", "About", and a dropdown menu. Below the navigation bar, the title "Reviews of House of Hope" is displayed. Three dark blue rectangular boxes contain reviews:

- By: prajim2103**  
As a regular Sunday volunteer at the shelter I get so much love and appreciation from the pups and the staff. They are looking for help walking dogs on Saturday too. Any amount of time you can spare would be loved and appreciated by all!
- By: sam**  
My parents adopted the most wonderful kittens here! The staff was so caring and kind! Best animal shelter!
- By: sam**  
Great services, love the work they do!

At the bottom of the page are two buttons: a green "Add Comment" button and a red "Go Back" button.

The screenshot shows a web page for PawHaven. At the top, there is a navigation bar with a house icon, the text "PawHaven", and links for "Home", "About", and a dropdown menu. Below the navigation bar, the title "Provide Your Review" is displayed. A large dark blue rectangular form is centered on the page, containing a text input field labeled "Comment". At the bottom of the form are two buttons: a green "Submit" button and a red "Go Back" button.

The screenshot shows the PawHaven website's forum section. At the top, there is a navigation bar with the logo, "PawHaven", "Home", "About", and a dropdown menu. Below the navigation is a large, bold title "Forum". On the left side, there is a sidebar with several cards. The first card is titled "Important Things to Consider Before Adopting a Pet" by "HugsNeeded". It contains text about the responsibilities of animal ownership. The second card is titled "How Many Animals Are Euthanized in Shelters Each Year?" by "House of Hope". It discusses the reasons behind animal euthanasia. The third card at the bottom of the sidebar says "Few tips to avoid losing your pet to a shelter".

**Important Things to Consider Before Adopting a Pet**  
By HugsNeeded

Adopting an animal companion means making a long-term commitment to care for and spend time with the animal for his or her entire life. Before adopting, consider the time and money involved in proper animal care. Will someone have the time and patience to exercise and train the animal? Is someone prepared to pay for food, accessories (such as toys, grooming supplies, leashes and harnesses, and bedding), inoculations, and veterinary care, including spaying or neutering, flea treatment, deworming, and emergency care? Can someone provide for the animal in case of your absence? If a family decides to adopt an animal, every family member should go to the local shelter together to choose the animal, after the obligations and long-term commitments involved have been carefully considered. It's also necessary to be aware of local, state, and federal regulations that govern animal ownership. Most communities require annual licensing for dogs and cats, and many require that animals be on the custodian's property at all times and that they be spayed or neutered.

**How Many Animals Are Euthanized in Shelters Each Year?**  
By House of Hope

Roughly half of the 6 to 8 million animals who enter shelters each year—many of them healthy, young, and adoptable—must be euthanized because of simple math: There are too many animals and not enough worthy adoptive homes. No one wants to see animals euthanized—least of all, the shelter workers who have to take action to address society's irresponsibility—but denying that an overpopulation crisis exists or blaming those who have devoted their lives to ending it is misguided and solves nothing. Warehousing companion animals in barren cages for long periods leaves animals to endure a far worse fate.

Few tips to avoid losing your pet to a shelter

The screenshot shows the PawHaven website's "Best Practices to Follow" section. At the top, there is a navigation bar with the logo, "PawHaven", "Home", "About", and a dropdown menu. Below the navigation is a title "Best Practices to Follow". On the left side, there is a sidebar with several cards. The first card is titled "Lookout for Signs!" and discusses signs of illness or injury. The second card is titled "Be Careful during the initial Interactions" and provides instructions for handling animals. The third card is titled "Handling Sick and Injured Animals" and gives specific details about handling injured animals. At the bottom of the sidebar, there is a "Go Back" button.

**Lookout for Signs!**

No signs of illness or injury. Animal is at the front of the cage exhibiting relaxed body postures—sprawled out in a prone position possibly with belly exposed, sitting upright and alert. Head-bumping and scent marking with glands in the chin and above the eyes (cats). Wiggly body, bouncing up and down, tail wagging, licking and nose nudging (dogs).

**Be Careful during the initial Interactions**

Before opening the cage door, speak to the animal in a pleasant, upbeat voice. Let the animal sniff at your fingers through the bars. If you have never handled this animal before, review the information on the kennel card.

**Handling Sick and Injured Animals**

Labored breathing. The presence of blood, mucus, or open wounds. Limbs at odd angles. Limping, whimpering, lethargy, not eating. The sweetest animal in the world can bite in response to pain. Before handling an injured animal, if possible ask medical personnel to assess the animal before moving it to determine the proper handling technique for the specific injury. If an animal is brought to the shelter in a box or carrier, keep it confined there until a medical exam is possible when circumstances allow.

Go Back

## GoodBye

Thank you for visiting our site

[Logout](#)

The image shows a user interface for a platform named PawHaven. At the top left is the PawHaven logo, which consists of a house icon inside a circle. To the right of the logo are navigation links: "Home" and "About" followed by a dropdown arrow. The main area contains four dark blue rectangular cards, each representing a management function:

- Manage Community Forum**: Features a speech bubble icon. Below the heading is a placeholder text paragraph: "Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words."
- Manage Shelters**: Features a house icon. Below the heading is a placeholder text paragraph: "Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words."
- Manage Animals**: Features a dog icon. Below the heading is a placeholder text paragraph: "Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words."
- Manage Users**: Features a person icon. Below the heading is a placeholder text paragraph: "Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words."

**Shelter Data**

Name	Manager's Name	Contact Number	Contact Email	License Number	Payment ID	Actions
HugsNeeded	Harsh Gulati	91424503455	harsh.gulati@gmail.com	IN053944	Hugs@okhdfc	<button>Delete</button>
House of Hope	Aryan Blouria	91354543513	blo@gmail.com	IN123876	hoh@okicici	<button>Delete</button>
DawnCare	Sahejdeep Sodhi	92454665345	dawncare@yahoo.in	IN341236	DCare@oksbi	<button>Delete</button>

[Go Back](#)

**Animal Rescue and Adoption Data**

Name	Type	Breed	Age (Months)	Actions
Lucy	Cat	Sphynx	3	<button>Delete</button>
Herman	Pig	Red White Hog	7	<button>Delete</button>
Bruno	Dog	Pug	12	<button>Delete</button>
Vicky	Ferret	Albino	4	<button>Delete</button>
Mia	Rabbit	Rex	6	<button>Delete</button>
Shilna	Guinea pig	Cuy	8	<button>Delete</button>
Srookshanks	Snake	Cobra	1	<button>Delete</button>
Parker	Dog	Poodle	14	<button>Delete</button>
Sheena	Cat	Persian	5	<button>Delete</button>
Krut	Cow	Red Angus	7	<button>Delete</button>

The screenshot shows a web application interface for PawHaven. At the top, there is a navigation bar with a logo, the text "PawHaven", and links for "Home" and "About". Below the navigation bar, the title "User Data" is centered. A table displays two user entries:

First Name	Last Name	Age	Email ID	Mobile Number	
Praneel	Jimmy	45	prajim@gmail.com	9125435469	<button>Delete</button>
Samarth	Arora	30	sammie@gmail.com	44365475454	<button>Delete</button>

A red "Go Back" button is located at the bottom left of the table area.

The screenshot shows a web application interface for PawHaven. At the top, there is a navigation bar with a logo, the text "PawHaven", and links for "Home" and "About". Below the navigation bar, the title "Your Profile" is centered. A form card contains the following fields:

First Name	<input type="text" value="Aryan"/>
Last Name	<input type="text" value="VATS"/>
Age	<input type="text" value="20"/>
Contact Number	<input type="text" value="8767889008"/>
Email	<input type="text" value="avats101@gmail.com"/>
Password	<input type="password"/>

At the bottom of the card are "Submit" and "Cancel" buttons.

## **Heuristic Evaluation**

### **1. Visibility of System Status**

Our application shows its current system status after any event performed by the user and also animations and transitions are employed to indicate what the user has currently selected.

Severity Rating: 0 (No usability problem)

### **2. Match between system and the real world**

Our application utilizes various simple icons, terms and concepts to ensure users can understand the meaning and functionality of the module without having to go look up a word's definition.

Severity Rating: 0 (No usability problem)

### **3. User control and freedom**

Our application always provides an option to the users to go back to the previous state at any point of time if they wish to do so. The Undo/ Go Back button is clearly labeled and discoverable.

Severity Rating: 0 (No usability problem)

### **4. Consistency and standards**

The UI of our application is consistent throughout and all the different words, situations, or actions mean the same thing irrespective of the module in which they occur.

Severity Rating: 0 (No usability problem)

### **5. Error prevention**

Our application employs constraints and checks like duplicate username checks, etc. to prevent user based errors and database integrity errors.

Severity Rating: 0 (No usability problem)

6. Recognition rather than recall

Our application doesn't require the user to remember information from one part of the interface to another. Description of all the modules and functionalities are visible explicitly.

Severity Rating: 0 (No usability problem)

7. Flexibility and efficiency of use

Our application supports keyboard shortcuts like pressing Tab key to switch input fields and buttons, Alt + back arrow to go back to previous page, etc. for expert users who wish to speedup their interaction.

Severity Rating: 0 (No usability problem)

8. Aesthetic and minimalist design

Our application's interface is designed keeping minimalism in mind and it only contains information which is relevant to the user. The content and visual design of UI focuses on only the essentials and primary goals.

Severity Rating: 0 (No usability problem)

9. Help users recognize, diagnose, and recover from errors

Error messages shown in our application (like username password mismatch) are expressed in plain language (no error codes), they precisely point to the problem. However, explicit solutions aren't provided since there aren't any severe errors that the users can't recover from easily.

Severity Rating: 2 (Minor usability problem)

10. Help and documentation

The UI of the application provides description of all the modules and functionalities indicating their uses. The labels clearly indicate what the user needs to do.

Severity Rating: 0 (No usability problem)

## Testing / Sample Output

File Edit Selection View Go Run Terminal Help pawhaven.db - PawHaven - Visual Studio Code

EXPLORER ... main.py pawhaven.db

PAWHAVEN Search tables... Reset Filters Records: 6

	fname	Iname	age	eml	username	mob	pswd	type
1	Aryan	VATS	20	avats10@gmail.com	avats	8767889008	admin	admin
2	Harsh	Gulati	NULL	harsh.gulati@gmail.c...	HugsNeeded	91424503455	hugshugs	shelter
3	Aryan	Blouria	NULL	blo@gmail.com	House of Hope	91354543513	hoh	shelter
4	Sahejdeep	Sodhi	NULL	dawncare@yahoo.in	DawnCare	92454665345	dawncare	shelter
5	Praeet	Jimmy	45	prajim@gmail.com	prajim2103	9125435469	qwert	user
6	Samarth	Arora	30	sammie@gmail.com	sam	44365475454	sam	user

OUTLINE TIMELINE Try SQLite Viewer Web > Go Live

File Edit Selection View Go Run Terminal Help pawhaven.db - PawHaven - Visual Studio Code

EXPLORER ... main.py pawhaven.db

PAWHAVEN Search tables... Reset Filters Records: 10

	name	type	breed	age	shelter	contact
1	Lucy	Cat	Sphynx	3	HugsNeeded	91424503455
2	Herman	Pig	Red White Hog	7	HugsNeeded	91424503455
3	Bruno	Dog	Pug	12	HugsNeeded	91424503455
4	Vicky	Ferret	Albino	4	HugsNeeded	91424503455
5	Mia	Rabbit	Rex	6	House of Hope	91354543513
6	Shilina	Guinea pig	Cuy	8	House of Hope	91354543513
7	Srookshanks	Snake	Cobra	1	House of Hope	91354543513
8	Parker	Dog	Poodle	14	DawnCare	92454665345
9	Sheena	Cat	Persian	5	DawnCare	92454665345
10	Kruti	Cow	Red Angus	7	DawnCare	92454665345

OUTLINE TIMELINE Try SQLite Viewer Web > Go Live

The screenshot shows the Visual Studio Code interface with a database connection to 'pawhaven.db'. The Explorer sidebar on the left lists files like main.py, model.py, and requirements.txt, along with database tables such as animal, user, comments, and forum. The main area displays the 'animal' table with three records:

	name	connum	coneml	mannme	license	paymentid	rank
1	HugsNeeded	91424503455	harsh.gulati@gmail.c...	Harsh Gulati	IN053944	Hugs@okdfc	34.25
2	House of Hope	91354543513	blo@gmail.com	Aryan Blouria	IN123876	hoh@okicici	50
3	DawnCare	92454665345	dawncare@yahoo.in	Sahejdeep Sodhi	IN341236	DCare@okbsi	16.3

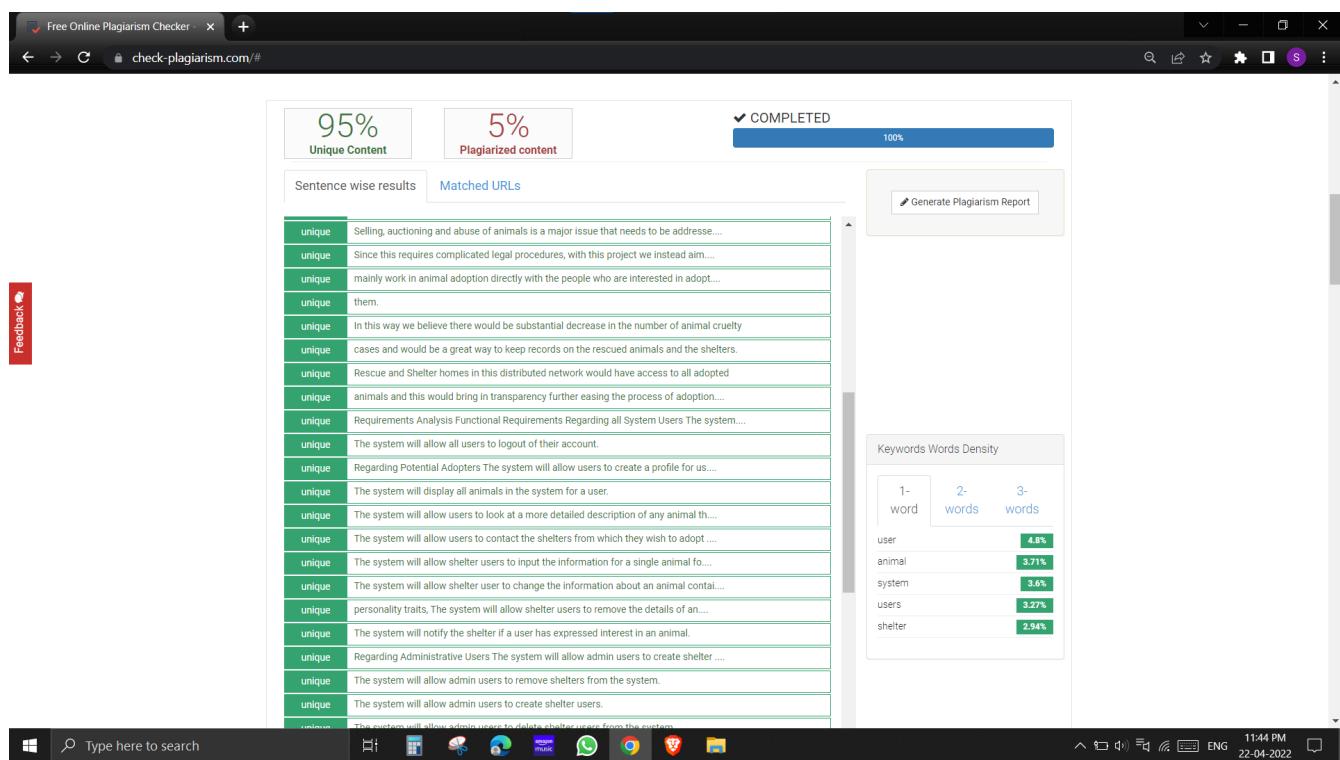
The screenshot shows the Visual Studio Code interface with the PawHaven database open in the Explorer panel. The sidebar on the left displays various files and folders, including main.py, model.py, pawhaven.db, requirements.txt, .gitignore, and several HTML files for templates like about.html, addcomment.html, addpost.html, admindash.html, adminfoorum.html, animaladd.html, animals.html, base.html, forum.html, intermd.html, landing.html, lbp.html, login.html, managanimal.html, manageshelters.html, manageuser.html, prelogin.html, register.html, sheltercomments.html, shelterdash.html, shelterprofile.html, shelters.html, userdash.html, and userprofile.html. The main area shows the contents of the pawhaven.db database, which contains five tables: user, animal, shelter, comments, and forum. The user table has columns for id, name, and comment. The animal table has columns for id, name, and comment. The shelter table has columns for id, name, and comment. The comments table has columns for id, user\_id, animal\_id, shelter\_id, and comment. The forum table has columns for id, user\_id, animal\_id, shelter\_id, and comment. A search bar at the top right allows for searching the database records.

## Conclusion

Our Web Application aims to provide a user-friendly environment that helps the Adopter and Organizations to get connected easily. With the features and objective we have desired to achieve, this website would be able to provide a central support system for the rescue shelters and adopters and help people connect with each other.

With this app we aim to help people move forward into an environment that is more sensitive toward the plight of stray animals. We also hope that this will help to sensitise people and make them more aware regarding topics such as animal cruelty and the animal adoption process for both people wanting to adopt animals as well as those people wanting to provide animals for adoption.

## Plagiarism Report



## References

- [1] <https://www.nltk.org/api/nltk.sentiment.html>
- [2] <https://getbootstrap.com/docs/4.6/getting-started/introduction/>
- [3] <https://jinja.palletsprojects.com/en/3.0.x/>
- [4] <https://docs.sqlalchemy.org/en/14/>
- [5] <https://pythonhosted.org/Flask-Bootstrap/basic-usage.html#sample-application>
- [6] <https://xd.adobe.com/ideas/process/ui-design/good-bad-ux-design-examples/>
- [7] <https://xd.adobe.com/ideas/process/user-research/putting-personas-to-work-in-ux-design/>
- [8] <https://xd.adobe.com/ideas/principles/web-design/ux-of-color-palettes/>
- [9] <https://xd.adobe.com/ideas/process/user-research/storyboard-ux-design/>
- [10] <https://xd.adobe.com/ideas/process/prototyping/low-fi-and-hi-fi-prototyping/>