

*A Mini Project Synopsis on*  
**Rescue Paws – Uniting hearts for Animal Rescue, Adoption  
and Reunions.**

**S.E. - D.S Engineering**

**Submitted By**  
**Radhika Pradhan      22107005**  
**Gauri Salvi            22107014**  
**Purva Sawant         22107026**  
**Atharva Nimkar       22107025**

**Under The Guidance Of**  
**Prof. Poonam Pangarkar**



**DEPARTMENT OF CSE-DATA SCIENCE**  
**A.P.SHAH INSTITUTE OF TECHNOLOGY**  
**G.B.Road, Kasarvadavli, Thane(W), Mumbai-400615**  
**UNIVERSITY OF MUMBAI**

**Academic Year : 2023-24**

# CERTIFICATE

This to certify that the Mini Project report on **Rescue Paws Uniting hearts for Animal Rescue , Adoption and Reunions** has been submitted by Radhika Pradhan(22107005) , Gauri Salvi(22107014), Purva Sawant(22107026), Atharva Nimkar(22107025)\_who are Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfillment of the requirement for the degree in **CSE(DATA SCIENCE)**, during the academic year **2023-2024** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

Prof. Poonam Pangarkar

Guide

Prof. Anagha Aher

Head Department of CSE DATA SCIENCE.

Dr. Uttam D.Kolekar

Principal

External Examiner(s)

- 1.
- 2.

Place: A.P. Shah Institute of Technology, Thane

Date:

## TABLE OF CONTENTS

1. Introduction.....	1
1.1. Purpose.....	2
1.2. Objectives.....	3
1.3. Scope.....	4
2. Problem Definition.....	5
3. Proposed System.....	6
3.1. Features and Functionality.....	7
4. Project Outcomes.....	8
5. Software Requirements .....	10
6. Project Design.....	11
7. Project Scheduling.....	17
8. Conclusion.....	20

References

Acknowledgement

# **Chapter 1**

## **Introduction**

The roots of animal rescue can be traced back to ancient civilizations, where individuals and communities often provided refuge to injured or abandoned animals, recognizing the bond between humans and animals. However, it was during the 19th century that organized animal rescue movements began to take shape in response to the harsh conditions faced by animals in rapidly industrializing societies. The Royal Society for the Prevention of Cruelty to Animals (RSPCA), founded in 1824 in the United Kingdom, is one of the earliest and most influential organizations dedicated to animal welfare. Over time, the animal rescue movement has expanded globally, with countless organizations and volunteers working to rescue animals from abusive situations, provide veterinary care, and find loving homes for them. Today, animal rescue projects are an integral part of society's commitment to animal welfare, striving to create a more compassionate world where no animal suffers needlessly.

An animal rescue project is a compassionate and dedicated initiative that aims to alleviate the suffering of homeless, abused, or neglected animals, providing them with a second chance at a safe and loving life. These projects are driven by a commitment to the welfare of animals and the belief that every creature deserves care, compassion, and the opportunity for a better future. They operate through a network of shelters, rescue organizations, volunteers, and supporters who work tirelessly to rescue, rehabilitate, and rehome animals in need. While the concept of animal rescue has ancient roots in human history, modern animal rescue projects have evolved significantly over time, driven by the desire to protect and care for vulnerable animals.

The "Animal Rescue Project" is a testament to the collective compassion of individuals and organizations dedicated to the well-being of animals. It seeks to provide practical solutions, raise awareness, and make a positive impact

in the lives of animals in need, while also fostering a sense of shared responsibility and community engagement. Through this project, we aspire to create a world where every animal has the opportunity to live a life free from suffering and filled with love and care.

### **1.1 Purpose:**

Animal Rescue organizations serve a vital purpose in society by working to protect and care for animals in need. To fulfill needs and goals of the animal rescue organization it is necessary to properly streamline the operations, improve efficiency, and increase the impact in helping animals in need. The primary purposes include:

- **Animal adoption:** The purpose of animal adoption is multifaceted and holds significant benefits for both the animals and the individuals or families who choose to adopt. Firstly, animal adoption serves as a compassionate means of providing abandoned, abused, or neglected animals with a chance for a better life. It helps alleviate the overcrowding and suffering in animal shelters, ultimately reducing the euthanization rates of homeless pets. Secondly, adopting an animal offers individuals the opportunity to gain a loyal and loving companion while fostering a sense of responsibility and empathy. Furthermore, adopting from shelters or rescue organizations often comes with the added benefit of receiving a pet that has been vaccinated, spayed or neutered, and sometimes even trained.
- **Donations:** Donations for animal rescue organizations serve a crucial purpose in safeguarding the welfare of vulnerable and often mistreated animals. These contributions play a pivotal role in funding rescue efforts, providing essential medical care, shelter, and rehabilitation for animals in need. Donations enable rescue groups to rescue animals from abusive or neglectful situations, offer them sanctuary, and facilitate their adoption into loving homes. Additionally, financial support aids in educational initiatives to promote responsible pet ownership and raise awareness about animal welfare issues. Donations for animal rescue purposes also assist in responding to emergencies, such as natural disasters or large-scale animal cruelty cases, ensuring that these organizations can swiftly provide aid to affected animals.

- **Contact information:** Providing contact information allows individuals interested in adopting a rescued animal to get in touch with the rescue organization. This is essential for facilitating the adoption process, answering questions, and scheduling visits to meet the available animals. In cases of emergencies, such as injured or abandoned animals, contact information is vital for the public to report these situations quickly. Animal rescue organizations can then dispatch rescue teams or provide guidance on how to assist the animal until help arrives. In summary, contact information in an animal rescue project is essential for maintaining communication with the public, supporters, potential adopters, volunteers, and various stakeholders. It enables the organization to fulfill its mission effectively by connecting with those who can contribute to the welfare of rescued animals and the success of the project.

## **1.2.Objectives:**

A dog rescue website serves as a valuable resource for a diverse range of individuals and groups with a shared interest in canine welfare. Firstly, it is a lifeline for potential adopters seeking a furry companion, allowing them to explore available dogs and make informed choices based on the dogs' profiles and needs. Furthermore, individuals passionate about animal welfare can use these platforms to donate funds, or contribute supplies to support rescue organizations. Rescuers and foster homes rely on these websites to network and share information about dogs in need, facilitating the vital work of saving and rehabilitating dogs. Additionally, educators, advocates, and activists use dog rescue websites to access educational resources and raise awareness about responsible pet ownership and the prevention of animal cruelty. Animal control organizations also benefit from these websites as they collaborate with rescue groups and share information on lost or found dogs. These websites are essential for anyone invested in the well-being of dogs, whether through adoption, support and donation.

### **1.3. Scope:**

A dog rescue organization website is a multifaceted tool that caters to a diverse audience. It plays a pivotal role in connecting people with the organization's mission and services, ultimately contributing to the welfare and betterment of dogs in need. The scope of such an organization extends beyond just rescuing and rehoming dogs; it encompasses a wide range of activities. Additionally, dog rescue organizations often provide educational programs and resources on responsible pet ownership, which can benefit the broader community by promoting empathy, compassion, and understanding of animal welfare issues.

- Potential Adopters: Individuals or families looking to adopt a dog can use these websites to browse available dogs, learn about their personalities and needs, and potentially find their next furry family member.
- Pet Lovers: Even if someone isn't currently looking to adopt a dog, they might visit dog rescue websites to stay updated and raise awareness about the importance of rescuing dogs in need.
- It can serve a wide range of audiences, all of whom are interested in dogs and their welfare, whether it's for adoption, support, or donation.
- People can contact to the rescue organization if they find any dog who is injured or needs other medical treatment.

## **Chapter 2:**

### **Problem Definition**

- Many animal rescue organizations and individuals passionate about animal welfare struggle with the lack of efficient tools and resources to streamline the process of locating, rescuing, and providing care for lost, injured, or abandoned animals.
- There is a pressing need for a user-friendly, application that can connect animal rescuers, shelters, and concerned citizens with real-time information on animal emergencies, facilitate rapid response, and offer guidance on the appropriate steps to take in various rescue scenarios.
- This application should also provide a platform for sharing information on adoptable animals, promoting responsible pet ownership, and supporting fundraising efforts for animal rescue organizations.
- The goal of this project is to develop an innovative and accessible animal rescue application that addresses these challenges, ultimately saving more animal lives and fostering a stronger, more connected animal rescue community.



## **Chapter 3:**

### **Proposed System**

#### **3.1. Features & Functionality:**

##### **1. Login and Signup:**

- User will have to first signup and create an account.
- To view further, user will need to login.
- By the Admin login admin can make changes in the user interface wherever required.

##### **2. Adoption Process:**

- Submission of basic details in the adoption application form.
- User should provide required document for adoption.

##### **3. Rescue Listings:**

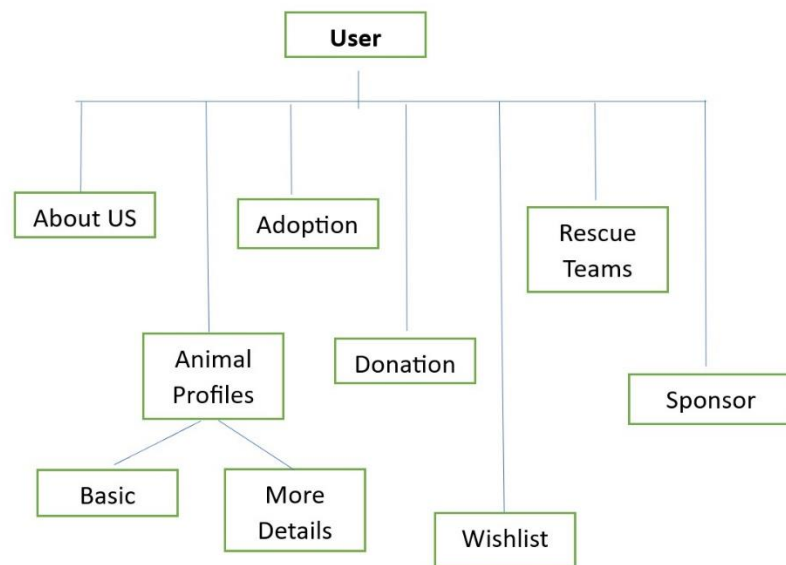
- Profiles of dogs with their photo and dog ID.
- User can view other details by entering the dog ID.
- Admin will have the ability to add more profiles and list animals available for adoption.

##### **4. Sponsor:**

- User can view Animals who need Sponsor for their treatment.
- Admin can upload and delete profiles of animals who require sponsor.

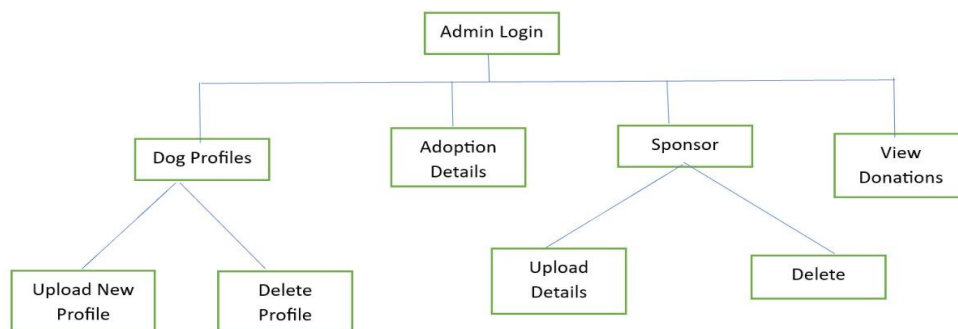
##### **5. Wishlist:**

- User can help the organization by providing the particular product from the Wishlist by visiting the amazon Wishlist link given in the page.



**Fig 3.1 Block Diagram- User Panel**

Figure 3.1 represents the user panel. It basically shows the various features available for the user. User can go through animal profiles and choose to donate or sponsor a particular dog. One can help the organization by providing the products in our amazon wishlist. User can also adopt the desired dog by filling the form.



**Fig.3.2 Block Diagram – Admin Panel**

Figure 3.2 represents Admin panel. In the admin panel, admin can make changes like add or delete the profiles in the features mentioned which reflects in the user side.

## **Chapter 4:**

### **Project Outcomes**

#### **1.Increased Adoption Rates:**

- One of the primary goals of an animal rescue project is to find loving homes for rescued animals. A successful project should result in a higher number of adoptions.
- In summary, increased adoption rates in an animal rescue project lead to numerous positive outcomes, including improved animal welfare, reduced euthanasia, enhanced community engagement, and more resources for rescue organizations. These outcomes collectively contribute to a more humane and compassionate approach to animal welfare.

#### **2.Reduced Euthanasia Rates:**

- By promoting adoption and providing resources for animal care, the project can contribute to reducing the need for euthanizing healthy animals in overcrowded shelters.
- In conclusion, reducing euthanasia rates in an animal rescue project is a highly desirable outcome that not only saves lives but also fosters community support, improves animal welfare, and promotes responsible pet ownership. It represents a step towards a more humane and compassionate approach to animal welfare and population management.

#### **3.Improved Animal Welfare:**

- The project should lead to improved overall welfare for rescued animals, ensuring they receive proper care, medical attention, and socialization.
- Animals in rescue projects experience better living conditions, including clean and safe shelter environments, proper nutrition, and access to clean water. These improvements are essential for their physical well-being.

- Rescue organizations prioritize medical care for animals, ensuring that they receive vaccinations, regular check-ups, and treatment for any existing health issues. This leads to improved health and reduced suffering.
- In summary, an animal rescue project that focuses on improving animal welfare outcomes aims to provide the best possible care and support for animals in need. These outcomes not only benefit the animals directly involved but also promote a culture of compassion, responsibility, and advocacy for animals in the community.

#### 4.Reduced Stray Population:

- Reducing the stray animal population is a critical aspect of animal welfare and responsible pet ownership. It involves various strategies and initiatives aimed at preventing animals from becoming strays and ensuring that those already on the streets are cared for and, ideally, placed into loving homes.
- Through lost and found services and outreach, the project can contribute to reducing the number of stray animals on the streets.

#### 5.Healthier, Safer communities:

- A reduction in the number of stray and neglected animals can lead to healthier, safer communities for both people and animals.
- These outcomes collectively contribute to the overall success and positive impact of an animal rescue project. Measuring progress towards these outcomes and continually assessing and adjusting project strategies are essential for achieving meaningful and lasting change in animal welfare.

## Chapter 5.

### Software Requirements

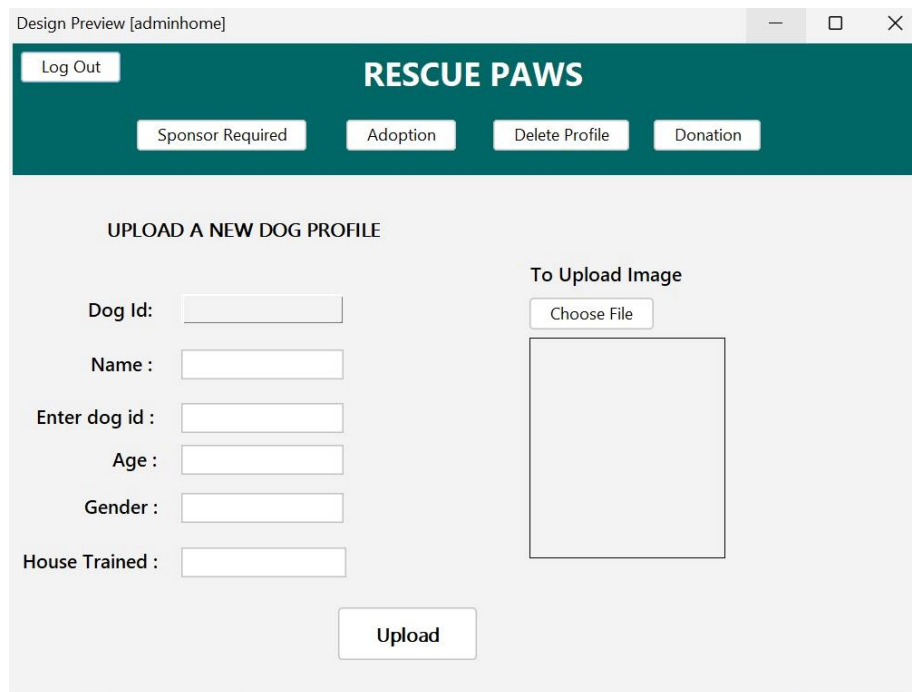
It's important to set up a suitable development environment with all the required components to efficiently develop, test, and deploy your dog rescue organization application. Once necessary software is installed, you can start designing and implementing your project, taking advantage of NetBeans' features for Java and database development. To develop and deploy the project, the following software requirements are necessary:

- **Java:**  
Java is a widely-used, high-level, object-oriented programming language known for its portability, versatility, and security features. It was developed by Sun Microsystems (now owned by Oracle Corporation) and first released in 1995. Java has since become one of the most popular programming languages in the world due to its ability to run on various platforms and its extensive ecosystem of libraries and tools.
- **IDE:**  
NetBeans is a popular Integrated Development Environment (IDE) primarily used for Java development, but it also supports multiple other programming languages. It provides a range of tools and features to facilitate software development, including code editing, debugging, testing, and project management.
- **Database:**  
MySQL is relational database management system (RDBMS). The data in a MySQL database are stored in tables that consist of columns and rows. MySQL is a database system that runs on a server. Make your own house uses MySQL database (version 8).

## Chapter 6:

### Project Design

Rescue Paws is a platform dedicated to connecting rescue animals with loving families. Our mission is to streamline the adoption process and create a seamless, compassionate experience for both pets and adopters. Through thoughtful product design, we aim to enhance every step of this life-changing journey.



Design Preview [adminhome]

Log Out

**RESCUE PAWS**

Sponsor Required Adoption Delete Profile Donation

**UPLOAD A NEW DOG PROFILE**

Dog Id:

Name :

Enter dog id :

Age :

Gender :

House Trained :

To Upload Image

Choose File

Upload

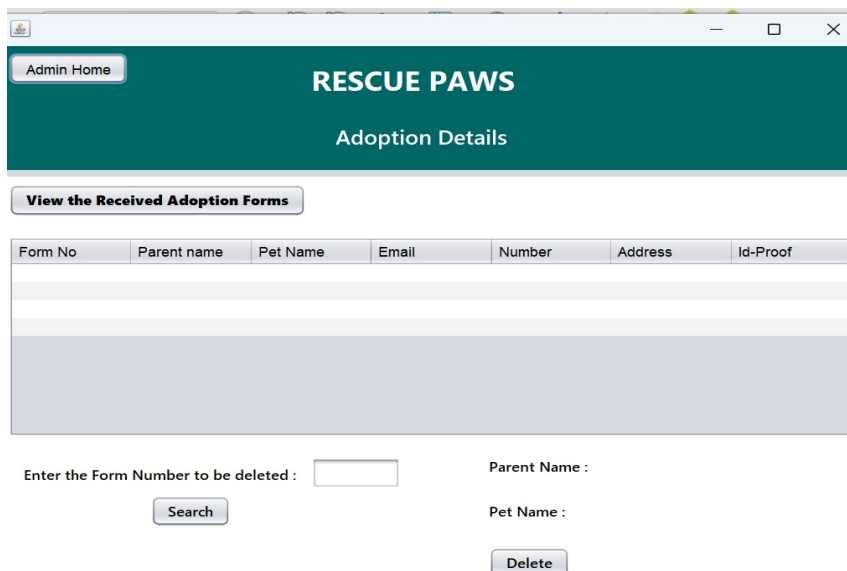
**Fig.6.1 – Admin Home.**

Fig 6.1 shows the admin panel. Admin can upload the dog profile by entering the required fields. The image should be uploaded through the dialogue box appeared after clicking choose file. The uploaded profile can be viewed by the user.



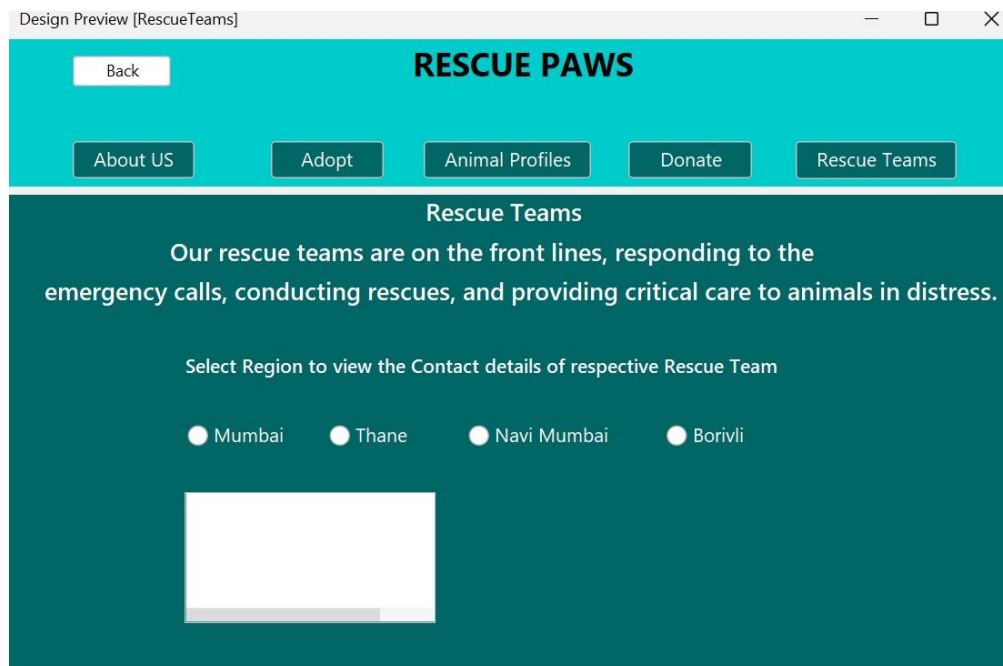
**Fig.6.2 – Animal profiles.**

Fig 6.2 showcases detailed information about each individual dog available for adoption. This page is designed to provide potential adopters with a comprehensive view of the dogs, helping them make informed decisions about which dog might be the best fit for their family.



**Fig 6.3 – Adoption Page in admin.**

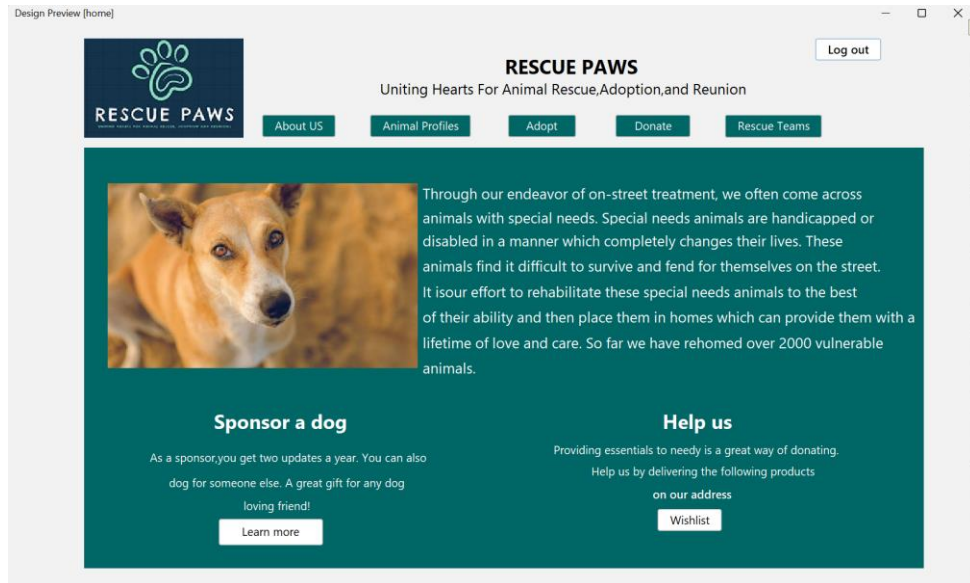
The Fig 6.3 shows Adoption Page within the admin panel. It provides administrators with a comprehensive view of all adoption applications submitted by potential adopters. . It allows administrators to review and track adoption applications, communicate with applicants, and make informed decisions about the placement of dogs in loving homes.



**Fig.6.4- Rescue Teams**

Fig.6.4 is of Rescue Teams. The Rescue Teams Page is a valuable resource that provides users with contact information for rescue teams and who are dedicated to helping dogs in specific regions. This page is organized by geographical areas, and it serves as a way for visitors to connect with local teams who play a critical role in the organization's mission.





**Fig.6.5-Home Page**

Fig.6.5 shows a user-friendly home page. It displays all the features of the application and aim of the organization. It becomes easy for the user to access any of the features. Here user can also visit our amazon Wishlist if they desire to help us.

**Fig.6.6-Admin Sponsor Page**

Fig.6.6 shows the admin sponsor page. In this page admin can upload a new animal profile who needs immediate sponsor. When a sponsor is found for a dog that profile can be deleted and the details of the sponsor can be viewed in the table given below.

Design Preview [Adopt]

Back

## ADOPTION

Adoption Form No :

Perspective pet parent :

Name of pet you wish to adopt :

Email :

Mobile Number :

Address :

ID Proof

Choose File

Save

SUBMIT

**Fig.6.7-Adoption Form**

Fig.6.7 shows the adoption form. If user wish to adopt any dog he needs to fill this adoption form by providing a ID proof.

Design Preview [adoptadmin]

Admin Home

RESCUE PAWS

Adoption Details

View the Received Adoption Forms

Form No	Parent name	Pet Name	Email	Number	Address	Id-Proof
---------	-------------	----------	-------	--------	---------	----------

Enter the Form Number to be deleted :

Search

Parent Name :

Pet Name :

Delete

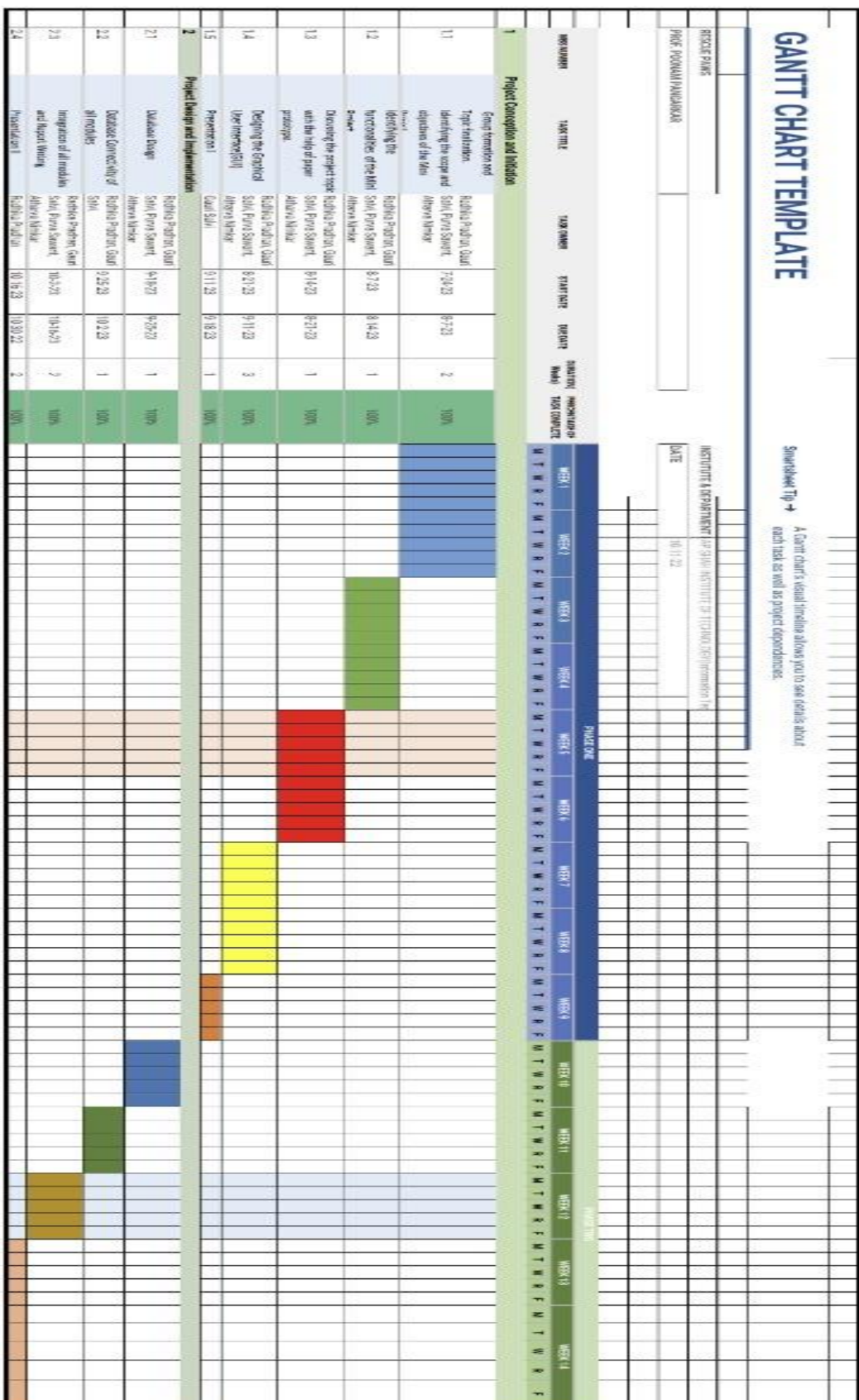
**Fig.6.8-Adoption Details (Admin)**

Fig.6.8 shows the details of every adoption form entered by the user. Admin can delete any Form by searching the form number. The parent name and pet name will be displayed to the admin after searching the form number.

## Chapter 7:

### Project Schedule

Sr. No	Group Member	Time duration	Work to be done
<b>1</b>	Radhika Pradhan, Gauri Salvi, Purva Sawant, Atharva Nimkar.	4 <sup>th</sup> Week of July	Group Formation and Topic Finalization Identifying the scope and objectives of this project.
		2 <sup>nd</sup> week of August	Discussing the project topic and designing a paper prototype.  Designing the Graphical User Interface (GUI)
<b>2</b>	Radhika Pradhan, Gauri Salvi, Purva Sawant, Atharva Nimkar.	3 <sup>rd</sup> week of August	GUI Connectivity
<b>3</b>	Radhika Pradhan, Gauri Salvi.	1 <sup>st</sup> week of September	Database Connectivity
<b>4</b>	Radhika Pradhan, Gauri Salvi, Purva Sawant , Atharva Nimkar	3 <sup>rd</sup> week of October	Integration of all modules and report writing



### Fig 7.1- Gant Chart

A Gantt chart is a visual project management tool used to plan, schedule, and track tasks and activities over time. It provides a graphical representation of a project's timeline, showing the start and end dates of various project elements, such as tasks, activities. The detail of the Gant chart is given below. In the fourth week of July, Radhika Pradhan, Gauri Salvi, Purva Sawant, Atharva Nimkar formed a group for their mini project. They discussed and finalized the project's topic, scope, and objectives during this meeting.

In the following weeks, All of them used a paper prototype to explore and refine project ideas, completing this phase by the third week of August. Later in August, Purva Sawant and Atharva Nimkar executed the design and integration of the graphical user interface (GUI). Afterward, on 18th September, the first project review took place and the changes suggested by the faculty were implemented by the team.

Following this, Radhika Pradhan and Gauri Salvi collaborated to create a structured database system, facilitating the systematic storage of information. Few new features with GUI integration and Database Connectivity were added. This database work was completed by late-October. Finally, the team integrated all modules and completed the report writing, resulting in their final presentation on 26th October, which was approved by the faculty.

## **Chapter 8:**

### **Conclusion**

It is a user-friendly platform where animal lovers can find a great friend by adopting innocent and loyal street dogs. They can also choose to donate for the wellbeing of our organization and sponsor an individual dog for his treatment.

In conclusion, the dog rescue Java project represents a significant and impactful contribution to the world of animal welfare. Through the development of this application, we have successfully created a digital platform that streamlines the process of connecting dogs in need with loving forever homes. Our project not only demonstrates the power of technology in facilitating the adoption process but also highlights the importance of responsible pet ownership and the tireless efforts of rescue organizations. This project showcases the potential of Java programming in developing user-friendly and efficient web applications that can make a real difference in the lives of countless dogs and their future families. It is a testament to the collaborative efforts and dedication of the development team, and it stands as a meaningful tool in the broader mission of improving the lives of our canine companions. As we move forward, we hope that this project continues to grow and evolve, ultimately saving more dogs, raising awareness about animal rescue, and inspiring others to harness technology for the betterment of our furry friends.

## References: -

- Julie Klam “Adopting a Rescue Dog” \_Vox Media, LLC\_New York Magazine\_Vol. 52, Issue 9.
- Lisa Marie Bernardo RN, PhD, MPH, Mary Jane Gardner RN, Joan O'Dair MSW, MPH, Beth Cohen RN, BSN “The PAWS program: Pediatric animal awareness and safety.” \_Journal of Emergency Nursing\_ Volume 27, Issue 4.
- Kayla Vasilko “Uniting for important paws: The Independent Cat Society and S.H.I.N.E.” \_Purdue Journal of Service-Learning and International Engagement\_ Vol. 9: Iss. 1, Article 6.
- Tutorial for MySQL Queries and Database Connectivity - [https://www.w3schools.com/sql/sql\\_insert.asp](https://www.w3schools.com/sql/sql_insert.asp).



## **ACKNOWLEDGEMENT**

This project would not have come to fruition without the invaluable help of our guide **Prof. Poonam Pangarkar** Expressing gratitude towards our HoD, **Prof. Anagha Aher**, and the Department of CSE Data Science for providing us with the opportunity as well as the support required to pursue this project. We would also like to thank our teacher Ms. Poonam Pangarkar who gave us her valuable suggestions and ideas when we were in need of them. We would also like to thank our peers for their helpful suggestions.