

Project Report On



Animal Rescue Community

Submitted in partial fulfillment for the award of

Post Graduate Diploma in Advanced Computing

from

C-DAC ACTS (Pune)

Guided by
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Presented By

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Centre of Development of Advanced Computing (C-DAC), Pune



CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that

Akash Bharambe – 240340120014

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have successfully completed their project titled

“Animal Rescue Community”

Under the Guidance of *Ms. Tejaswini Apte*

Project Guide

HOD ACTS

ACKNOWLEDGEMENT

This project “**Animal Rescue Community**” was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC ACTS).

We all are very glad to mention the name of **Ms. Tejaswini Apte** for her valuable guidance to work on this project. Her guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

Our most heartfelt thank goes to **Ms. Swati Salunkhe** (Course Coordinator, PG- DAC) who gave all the required support and kind coordination to provide all the necessities like required hardware, internet facility and extra Lab hours to complete the project and throughout the course up to the last day here in C-DAC ACTS, Pune.

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1. Introduction

The Animal Rescue Community (ARC) project is a comprehensive web-based application designed to streamline and enhance the process of animal rescue, adoption, and donation management. This project was conceived with the goal of creating a centralized platform that can connect animal rescue organizations, volunteers, and potential adopters, thereby promoting a collaborative effort to provide better care for animals in need.

Project Vision

The core vision of the ARC project is to build a community-driven platform where individuals and organizations dedicated to animal welfare can come together to make a meaningful impact. The platform is designed to facilitate the entire lifecycle of animal rescue operations, from intake and care to adoption and beyond. By leveraging modern web technologies, ARC aims to simplify the management of rescue operations and improve the overall efficiency of the adoption process.

Key Features

- **Animal Listings:** The ARC platform allows rescue organizations to list animals available for adoption. Each listing includes detailed information about the animal, such as species, breed, age, health status, and behavior traits. High-quality images and videos can also be uploaded to provide potential adopters with a comprehensive view of the animals
- **Adoption Process:** Potential adopters can browse through the listings, filter animals based on specific criteria, and submit adoption applications directly through the platform. The application process is streamlined to ensure that all necessary information is collected, and it includes features for background checks and home visits.
- **Donation Management:** ARC supports donation functionalities, allowing users to contribute financially to the rescue operations. The platform provides transparency in how donations are used, with a dedicated section that outlines expenses, ensuring donors can see the impact of their contributions.
- **Expense Tracking:** Rescue organizations can track and manage their expenses through the platform. This feature allows for better financial planning and reporting, which is crucial for maintaining transparency and accountability within the organization.
- **User Authentication and Security:** The platform implements a robust security framework, including custom JWT-based authentication combined with OAuth2 for secure and seamless user access. The application ensures that all sensitive user data, including financial transactions, are protected with industry-standard encryption and security practices.

Community Engagement:

ARC fosters a sense of community among users by allowing them to share success stories, participate in forums, and collaborate on rescue missions. This feature enhances the user experience and encourages active participation in the cause.

1. Software Requirement

To run the Animal Rescue Community (ARC) project, the following software components are required:

1. Operating System

- **Development Environment:** Windows 10/11, macOS, or any Linux distribution.
- **Production Environment:** Ubuntu 20.04 LTS or later, CentOS 7 or later, Windows Server 2016 or later

2. Java Development Kit (JDK)

- **Version:** JDK 17 or later (for compatibility with Spring Boot 3.3.2).

3. Integrated Development Environment (IDE)

- **Recommended IDE:** IntelliJ IDEA, Eclipse, or Visual Studio Code.

4. Build Tools

- **Maven:** Version 3.8.1 or later (for managing project dependencies and building the project).

5. Database

- **Database Management System (DBMS):** MySQL 8.0 or later, PostgreSQL 13 or later.
- **Database Client:** MySQL Workbench, pgAdmin, or any compatible database client.

6. Web Server

- **Embedded Server:** Apache Tomcat (embedded in Spring Boot).
- **Reverse Proxy (Optional):** Nginx 1.18 or later for production environments.

7. Frontend Development

- **Node.js:** Version 16.x or later (for managing frontend dependencies and running ReactJS).
- **NPM (Node Package Manager):** Version 8.x or later.
- **ReactJS:** Latest stable version (for frontend development).

8. Security Libraries

- **Spring Security 6:** For authentication and authorization.
- **JWT Library:** Version 0.12.6 or later (for JWT handling).
- **OAuth2 Libraries:** Spring Security OAuth2 and associated dependencies.

9. Version Control System

- **Git:** Version 2.30 or later (for source code management).
- **GitHub:** Repository hosting and collaboration.

10. Containerization (Optional)

- **Docker**: Version 20.x or later (for containerizing the application).
- **Docker Compose**: Version 1.29 or later (for managing multi-container Docker applications).

11. Testing Tools

- **JUnit 5**: For unit testing.
- **Selenium**: For automated UI testing.
- **Postman**: For API testing.

12. Email Integration

- **JavaMailSender**: For email notifications and communication.

1. Hardware Requirement

To efficiently run the ARC project, the following hardware specifications are recommended:

1. Development Machine

- **Processor:** Intel Core i5/i7 or AMD Ryzen 5/7 (Quad-Core) or better.
- **RAM:** Minimum 8 GB (16 GB recommended for smooth multitasking and running multiple services).
- **Storage:** Minimum 250 GB SSD (Solid State Drive) for faster I/O operations.
- **Graphics:** Integrated GPU (Dedicated GPU recommended for heavy frontend development with graphical elements).

2. Production Server

- **Processor:** Intel Xeon E-series or AMD EPYC (8 Cores or more).
- **RAM:** Minimum 16 GB (32 GB or more recommended depending on load).
- **Storage:** Minimum 500 GB SSD (RAID configuration recommended for data redundancy).
- **Network:** High-speed Ethernet connection (1 Gbps or higher).
- **Backup Storage:** Additional storage for regular backups (minimum 1 TB HDD).

3. Cloud Hosting (Optional)

- **Provider:** AWS, Azure, Google Cloud, or DigitalOcean.
- **Instance Type:** T3.medium or higher (for development and staging environments).
- **Database Service:** Managed MySQL/PostgreSQL instance.
- **Storage:** 50 GB SSD (scalable as per project needs).

4. Additional Peripherals

- **Monitors:** Dual monitors recommended for better productivity.
- **Keyboard & Mouse:** Ergonomic design for prolonged use.

Uninterruptible Power Supply (UPS): For protecting against power surges and outages.

1. Tools and technologies used

- SpringBoot
- SpringDataJPA
- RESTful Web
- Node JS
- Express JS
- SpringWeb
- MYSQL Database
- JWT
- Git
- Spring Security
- React JS
- HTML and CSS
- Axios

1. Spring Boot: Utilized to develop the backend of the application, providing a robust framework for building Java-based web applications with ease.
- 2.
3. Spring Data JPA: Implemented for data access, allowing seamless interaction with the MySQL database to store and retrieve sports data efficiently.
- 4.
5. RESTful Web Services: In the context of an e-commerce web application like Book Charm, RESTful web services play a crucial role in facilitating communication between the frontend and backend components. These services adhere to the principles of Representational State Transfer (REST), which emphasizes a stateless, standardized approach for building web services
- 6.
7. Node JS: Employed for web scraping, enabling the application to extract live scores and match details from various sports websites and APIs.
- 8.
9. Spring Web: Used for handling web requests and responses, managing controllers, and serving static resources to the frontend.
- 10.
11. MySQL Database: Chosen as the relational database management system to store book data on cloud ,including user detail ,seller detail, book information and admin details.

1.JWT (JSON Web Tokens): Implemented for secure user authentication and authorization, ensuring that only authenticated users can access into account and buy books and seller can add books .

1.Axios: In the context of a web application like Book Charm, Axios is likely used as a client-side HTTP library. Axios simplifies the process of making asynchronous HTTP requests from the frontend (React.js) to the backend (Node.js/Express.js). It is instrumental in fetching data from the server, handling API calls, and facilitating smooth communication between the frontend and backend components, ensuring efficient data retrieval and seamless user interactions in the e-commerce application

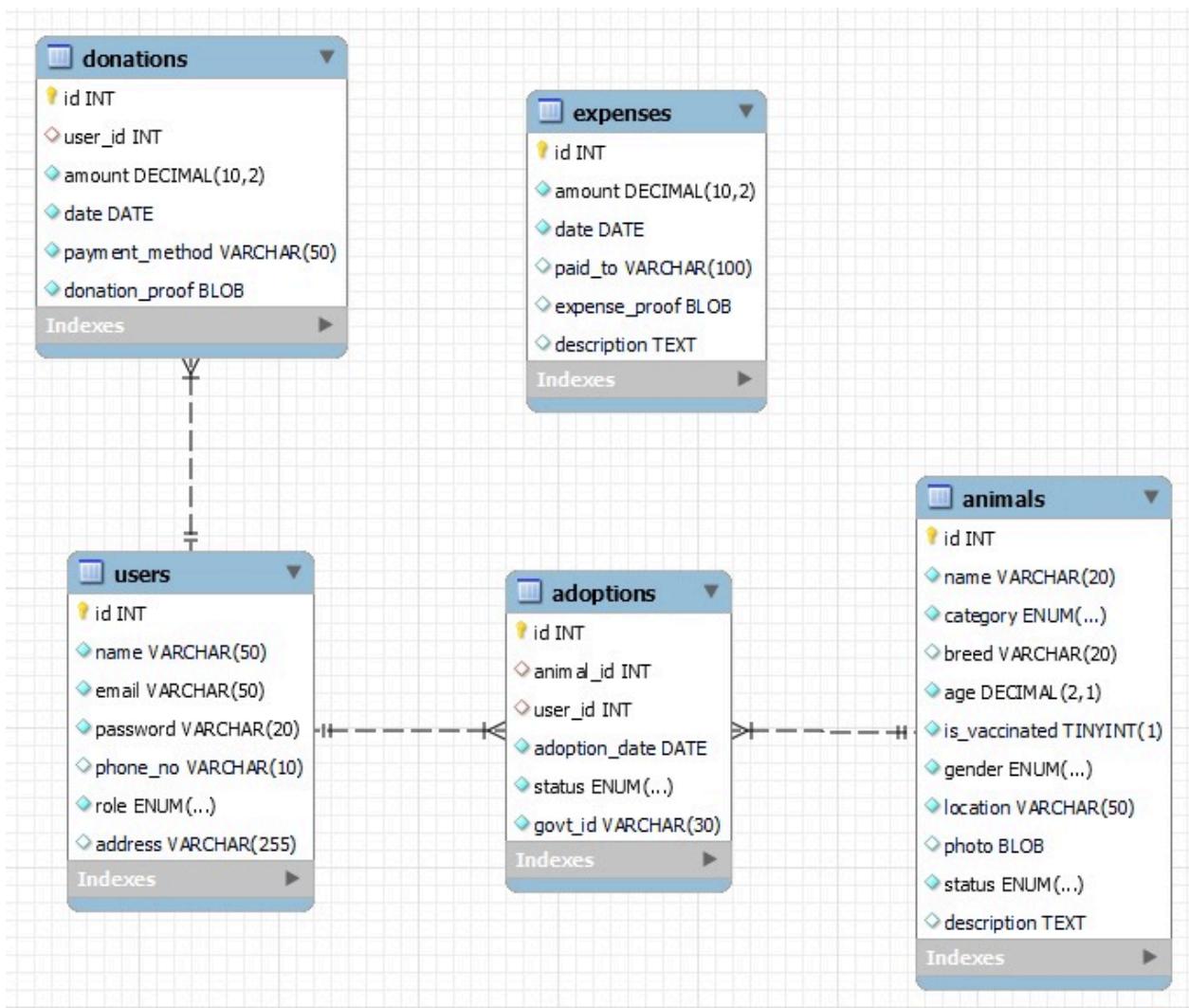
1.React: Employed to build the frontend of the application, offering a component-based architecture for creating dynamic and interactive user interfaces.

1.CSS: Used for styling the frontend components with utility-first CSS classes,allowing for rapid prototyping and customization of the user interface.

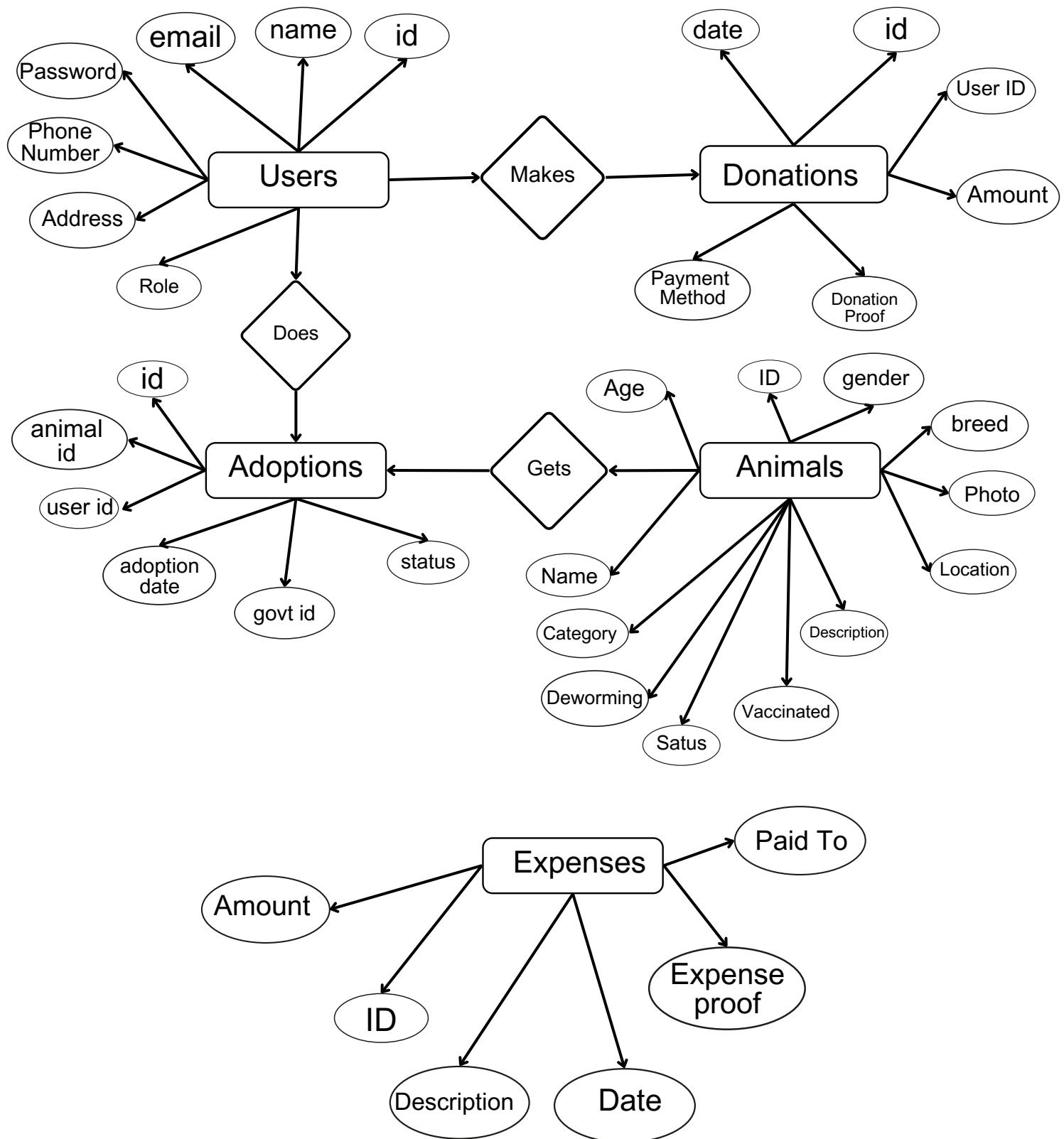
1.Tailwind: Used for styling the frontend components with utility-first CSS classes, allowing for rapid prototyping and customization of the user interface.

1.Git: Implemented as a version control system to track changes in the source code, enabling collaboration among developers, and facilitating code management and deployment workflows.

1. Project Database Diagram



1. Project E-R(Entity relationship) Diagram



1. Advantages

Backend: Java, Spring Boot

Robust and Scalable: Java is a highly robust language with strong memory management, making it ideal for building scalable applications. Spring Boot simplifies the development process by providing a convention-over-configuration approach, allowing you to build production-ready applications quickly.

Large Community and Ecosystem: Both Java and Spring Boot have extensive documentation and large communities, offering a wealth of libraries, tools, and resources to speed up development and troubleshoot issues.

Security Features: Spring Boot comes with built-in security features such as authentication, authorization, and encryption, which are crucial for building secure applications.

Enterprise-Level Performance: Java is known for its high performance and is widely used in enterprise-level applications, ensuring that your project can handle large volumes of traffic and data efficiently.

Frontend: React

Component-Based Architecture: React's component-based architecture allows for reusable UI components, making the code more maintainable, modular, and easier to test.

Fast Rendering with Virtual DOM: React uses a Virtual DOM that minimizes direct DOM manipulation, leading to faster rendering and a smoother user experience, which is particularly important for dynamic and interactive web applications.

Rich Ecosystem: React has a vast ecosystem of libraries and tools that can be easily integrated to extend the functionality of your application, such as state management with Redux or animations with Framer Motion.

SEO-Friendly: React applications can be rendered on the server side, improving SEO performance and making your site more discoverable by search engines.

Strong Community Support: React is maintained by Facebook and has a large and active community, ensuring continuous updates, a wealth of learning resources, and community-driven solutions.

Database: MySQL

Reliability and Maturity: MySQL is one of the most mature and reliable relational database management systems, offering robust performance and security features suitable for both small and large-scale applications.

ACID Compliance: MySQL ensures ACID (Atomicity, Consistency, Isolation, Durability) compliance, which is essential for ensuring data integrity, especially in transactional applications.

Wide Adoption and Support: MySQL is widely adopted, with a strong community and extensive documentation, making it easier to find resources, tools, and expertise.

Scalability: MySQL can handle large volumes of data and can be scaled horizontally or vertically depending on the needs of your application.

Cross-Platform Support: MySQL is compatible with various operating systems, making it flexible and easy to integrate into diverse environments.

Build Tool: Maven

Dependency Management: Maven simplifies dependency management, automatically downloading and managing libraries and plugins required for your project, reducing the risk of version conflicts.

Standardized Project Structure: Maven enforces a standardized project structure, which improves consistency and makes it easier for new developers to understand the project layout.

Build Automation: Maven automates the build process, including tasks like compiling code, running tests, and packaging the application, leading to more efficient development cycles.

Extensibility: Maven's plugin-based architecture allows you to extend its functionality, enabling custom build processes tailored to the specific needs of your project.

Other Tools

Git:

Version Control: Git provides a distributed version control system that allows multiple developers to work on the same project simultaneously without conflicting changes, ensuring code integrity.

Collaboration: Git supports branching and merging, making it easier to collaborate on new features, experiment with changes, and integrate code into the main project without disrupting the workflow.

Postman:

API Testing: Postman simplifies API development and testing, allowing you to create, share, and test API requests with an intuitive interface, ensuring your backend services are functioning correctly.

Automation: Postman supports automated testing with scripting capabilities, which can be integrated into your CI/CD pipeline to ensure that APIs are tested as part of the deployment process.

Swagger:

API Documentation: Swagger provides a framework for generating interactive API documentation, making it easier for developers and third parties to understand and use your APIs.

API Design and Testing: Swagger's tools allow you to design, build, and test your APIs efficiently, ensuring that they adhere to best practices and meet the required specifications.

1. Screenshots

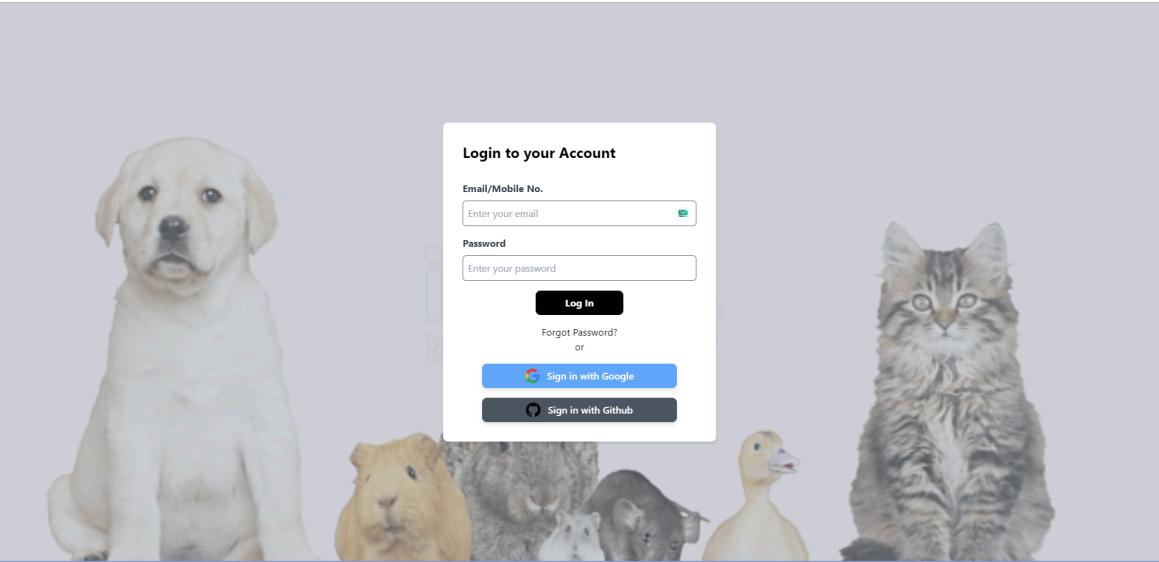
The screenshot shows the homepage of the Animal Rescue Community (ARC) website. At the top, there's a navigation bar with links for Home, About, Contact, Donate, Post, and Admin Panel. Below the navigation is a large banner image of a person holding a black and white dog. Underneath the banner are three circular icons representing different adoption categories: "Adopt Dogs" (a puppy), "Adopt Cats" (a sleeping orange cat), and "Adopt Others" (a small turtle). A "View All →" button is located below these icons. The main section features a heading "Our Product and Services" with a subtext: "Explore our wide range of pet products and services to keep your furry friends happy and healthy." Below this are eight service boxes arranged in two rows of four:

- Pet Adoption**: Adopt a furry friend from our pet adoption program and give a loving home.
- Rescue an animal**: Our experienced veterinarians provide comprehensive care for your pets. Get in touch Now.
- Pet Supplies**: Browse our selection of high-quality pet supplies, including food, toys, and accessories.
- Pet Ambulance**: Book an ambulance for emergency rescues.
- Pet Grooming**: Our experienced groomers care for your pets. Get in touch Now.
- Pet Sitters**: Travelling out of town? Need someone to look after your pets?
- Animal Birth Control**: Animal Birth Control Programs for stray animals.
- Pet Taxi**: Looking for a taxi for you to take your pets along?

The screenshot shows the newsletter sign-up section at the bottom of the website. It features a purple header with the text "Join our family of pet lovers." and a subtext: "Stay connected with the latest updates, adoption stories, and tips for pet care by signing up for our newsletters. Join our community and never miss a paw-some moment!" Below this is a form with a placeholder "Enter your email" and a "Subscribe" button. The footer includes the ARC logo, copyright information ("© 2024 Animal Rescue Community. All Rights Reserved."), and links to resources, follow us (Instagram, Twitter), and legal (Privacy Policy, Terms & Conditions). Social media icons for Facebook, Twitter, and Instagram are also present.

 Animal Rescue Community

Home About Contact Donate Post Log in Get started



Login to your Account

Email/Mobile No.

Password

Log In

Forgot Password?

or

 [Sign in with Google](#)

 [Sign in with GitHub](#)

Join our family of pet lovers.

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Enter your email  **Subscribe**



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 Animal Rescue Community

Welcome, Akash Bharambe Profile **Log out**

Home About Contact **Donate** Post Admin Panel

Support Our Cause ❤️

Your donation can make a real difference

Scan to Donate



Akash Bharambe
8411840325
0

Donate Now

Recent Donors

volunteer	20000
volunteer	10000
Aakash Bharambe	987
Aakash Bharambe	5678
Aakash Bharambe	1000

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Message from the Founder

"Grow Through What You Go Through. Founded in 2020, ARC was established to provide emergency aid to animals in distress. Over the years, our rescue and rehabilitation efforts have reached thousands of animals across, improved public health and safety, and actively worked to prevent human-animal conflicts in both urban and rural areas.

As I reflect on the past 4 years, I'm struck by the journey we've undertaken. Our community organization has continuously adapted to the evolving needs of our environment. Each year, as we assess our strengths, weaknesses, opportunities, and threats, it helps us plan effectively for the lives we impact—both animal and human—and for the dedicated volunteer working tirelessly towards our cause.

Our commitment to change has always been intentional. Whether it's responding to the needs of the environment or recognizing the importance of policy reform, our efforts are guided by mindful deliberation. We work on the frontlines and at the grassroots level because we understand that protecting animals also means educating and raising awareness among the communities that share their spaces.

Our multidisciplinary approach connects people, animals, and the environment, powered by the dedicated community of over 500 volunteers. Together, we work towards a vision of conservation and coexistence between animals and humans. Annually, ARC directly impacts over 10,000 animal lives through rescue, medical aid, and rehabilitation.

Change is the only constant, and at ARC, we ensure that our ability to evolve is just as steadfast. For over 4 years, ARC has been helping animals, people, and the environment. It has been a long and enriching journey, and one we continue with unwavering commitment—there is no stopping or turning back. With joy, love, and determination."

Sahil Kamble
Founder & President, ARC

What we do at ARC?

At ARC, we are dedicated to improving the lives of stray animals in Pune and PCMC. Our comprehensive approach ensures that every animal receives the care and support they need. Here's how we make a difference:

Adoptions

We strive to find loving homes for indies through our adoption campaigns. Our team carefully vets potential adopters to ensure each animal is placed in a safe and caring environment. So far, we have successfully facilitated over 1000+ happy adoptions in Pune.

Rescues

Our rescue team is always on standby, responding to calls for help across the city. Whether it's an injured stray or a vulnerable puppy, we provide every possible assistance to get them admitted in nearby shelter, ensuring that every animal receives the medical attention and care they need.

Onsite Treatment

We offer onsite treatment for strays who require immediate medical care. Our volunteers, equipped with basic first-aid knowledge, tend to injured or sick animals on the spot, stabilizing them before further treatment.

Feeding Programs

Our feeding programs ensure that strays across Pune have access to regular, nutritious meals. We coordinate with volunteers and local communities to establish feeding points, providing food and clean water to countless animals day.

Reflective Collar Drives

To enhance the safety of stray dogs, especially at night, we often organize reflective collar drives. These collars help make strays more visible to drivers, reducing the risk of accidents and ensuring their safety on the streets.

Vaccinations & Sterilizations

We conduct regular vaccination & sterilisation drives for strays. By vaccinating animals, we aim to prevent the spread of illnesses and maintain the overall health of Pune's stray population.



Join our family of pet lovers.

Stay connected with the latest updates, adoption stories, and tips for pet care by signing up for our newsletters. Join our community and never miss a paw-some moment!

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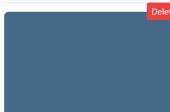
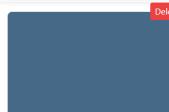
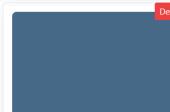
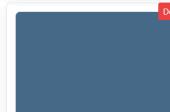
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Adopt! Don't Shop!

 Buddy Gender: MALE Breed: Golden Retriever	 Buddy Gender: MALE Breed: Golden Retriever	 Charlie Gender: MALE Breed: Golden Retriever	 Buddy Gender: MALE Breed: Golden Retriever
 Rex Gender: MALE Breed: German Shepherd	 Max Gender: MALE Breed: Labrador	 Buddy Gender: MALE Breed: Golden Retriever	 Buddy Gender: MALE Breed: Labrador
 Max Gender: FEMALE Breed: Beagle	 Charlie Gender: MALE Breed: Golden Retriever	 Daisy Gender: FEMALE Breed: Bulldog	 Bella Gender: FEMALE Breed: Poodle
 Shiro Gender: MALE Breed: Shiba Inu	 Wolf Gender: MALE Breed: Siberian Husky	 Tiny Gender: FEMALE Breed: Chihuahua	 Oscar Gender: MALE Breed: Dachshund
 Rocky Gender: MALE Breed: Boxer	 Shep Gender: FEMALE Breed: Australian Shepherd	 Duke Gender: MALE Breed: Great Dane	 Snowball Gender: MALE Breed: Maltese
 Shorty Gender: MALE Breed: Corgi	 Bella Gender: FEMALE Breed: Bichon Frise	 Pugsy Gender: MALE Breed: Pug	 Coco Gender: FEMALE Breed: Cockapoo
 Rocco Gender: MALE Breed: Rottweiler	 Oscar Gender: MALE Breed: Dachshund	 Charlie Gender: MALE Breed: Labrador	

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Yay, Ensure your pet gets the best care!

Name

Species

[Select Species](#)

Gender

[Select Gender](#)

Age

Breed

 Vaccinated Dewormed

State

[Select...](#)

City

[Select...](#)

Details

Upload a photo

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1. Future Scope:

- **Integration of AI for Pet Matching:** Implement AI algorithms that can match potential adopters with pets based on their lifestyle, preferences, and home environment.
- **Mobile Application:** Develop a companion mobile app to reach a broader audience and allow for on-the-go interaction with the platform.
- **Expansion to Multiple Locations:** Scale the website to include rescue operations from various cities or regions, providing a centralized platform for animal adoption across multiple areas.
- **Real-time Pet Tracking:** Integrate GPS collars for pets, allowing adopters to track the location and activities of their pets post-adoption.
- **Enhanced Donation Management System:** Develop a more sophisticated donation system with options for recurring donations, corporate sponsorships, and transparent tracking of how funds are used.
- **Volunteer Management System:** Introduce a system for managing volunteers, including sign-ups, scheduling, and task assignments.
- **Community Forum:** Create a community forum where users can discuss pet care, share adoption stories, and support each other in the animal rescue mission.
- **Integration with Veterinary Services:** Partner with local veterinarians to offer discounted or free services for rescued animals, and integrate booking systems for vet visits directly through the website.

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1. Conclusion

- The Animal Rescue Community (ARC) website project successfully leverages a modern and powerful tech stack, including Java, Spring Boot, React, MySQL, and essential tools like Docker, Git, Jenkins, Postman, and Swagger, to create a robust, scalable, and user-friendly platform for animal rescue and adoption. The project not only addresses the critical need for a centralized platform to connect rescue animals with potential adopters but also ensures a seamless and secure experience for users.
- By adopting a component-based architecture on the frontend and a microservices-oriented backend, the project is designed to be easily maintainable and extensible, providing a strong foundation for future enhancements. The careful selection of tools and technologies has enabled efficient development, testing, and deployment processes, ensuring the project meets high standards of performance, security, and reliability.
- Overall, the ARC website stands as a testament to the effective integration of cutting-edge technologies in building solutions that have a positive impact on society, offering a promising future scope for further innovations and community engagement.

1. References

Java & Spring Boot:

[Official Java Documentation](#)

[Spring Boot Reference Guide](#)

React:

React Official Documentation

[React GitHub Repository](#)

MySQL:

[MySQL Reference Manual](#)

[MySQL Official Website](#)

Maven:

[Maven Official Documentation](#)

[Maven Central Repository](#)

Git:

[Git Documentation](#)

[GitHub Documentation](#)

Postman:

Postman Learning Center

Postman API Documentation

Swagger:

Swagger Documentation

[Swagger GitHub Repository](#)

General Resources:

<https://spring.io/projects/spring-boot>

<https://spring.io/projects/spring-data-jpa>

<https://restfulapi.net/>

<https://www.mysql.com/>

<https://spring.io/projects/spring-web>

<https://reactjs.org/> <https://nodejs.org/>