PetCare Hub

All in one solution.

Table Of Contents:

Group Introduction

Name	Enrollment No.	Seat No.
RUTVIK ASHOKBHAI PRAJAPATI	202212101451	644
NISHA VIPULBHAI PANCHAL	202212101416	531
DHRUV SANJAYKUMAR PATEL	202212101431	137

Project Introduction

→ **Petcare Hub: All-in-One Solution** is designed to streamline pet adoption and care through a comprehensive platform. Our system integrates user registration, pet search, vet booking, and profile management, ensuring a seamless experience for pet adopters, veterinarians, and administrators alike.

Existing System:

- Limited pet options only available in specific locations and facilities.
- Records are kept on paper, which is prone to mistakes.
- Pet information is minimal, with limited details on their health and history.
- Finding pets requires time-consuming and costly travel.
- Seeing pets in person can lead to impulsive decisions.
- Adoption costs vary, making price comparisons difficult.
- Few payment options and limited guidance on pet care.
- Hard to verify adoption facilities for credibility and transparency.
- Pet care and support services are inconsistent in quality.
- Limited access to unique pets and resources for new pet owners.

Proposed System:

- Wide variety of adoption options with different pet categories and types.
- Verified adoption centres and breeders with reviews and ratings.
- Clear and transparent adoption policies and practices.
- Advanced search filters to find pets that match specific needs.
- Convenient payment options with multiple methods.
- Detailed health and background information for each pet.
- Easy vet appointment scheduling and profile management.
- Continuous support with health records, care tips, training, and nutrition guidance.
- Partnerships with local and national rescue organizations.

Tools & Technology:

Tools




Technology:

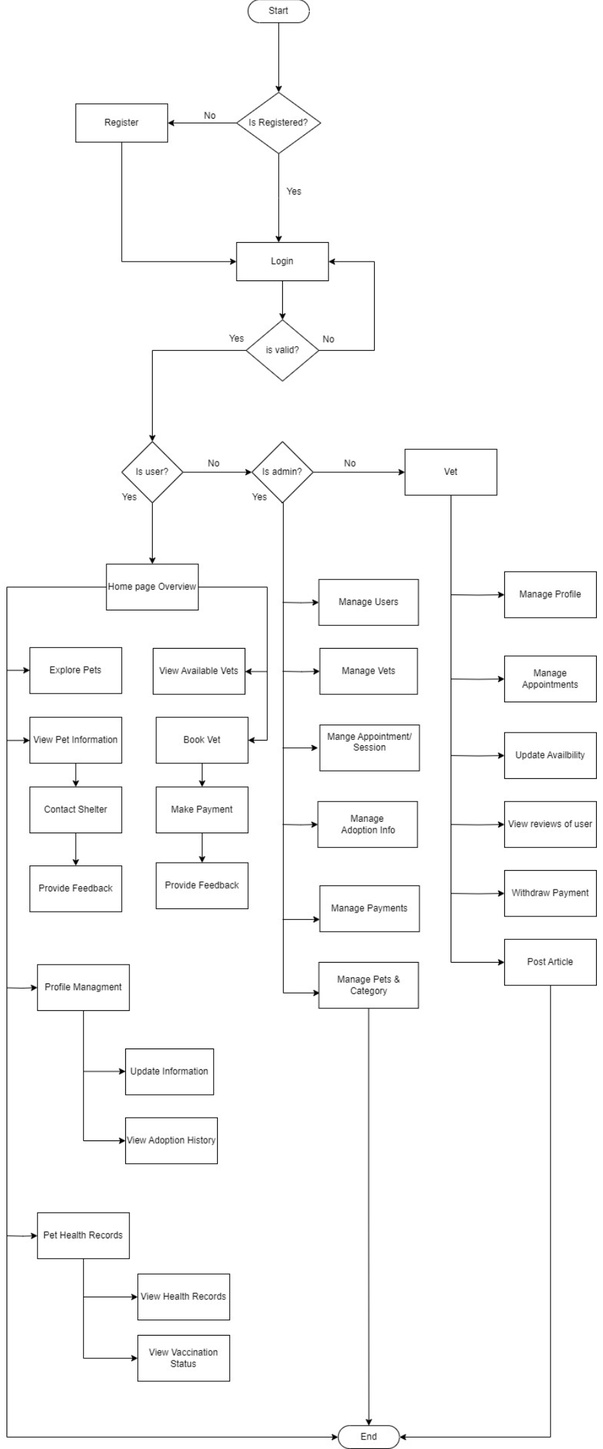
Frontend:

Technology:

Backend:

Database:

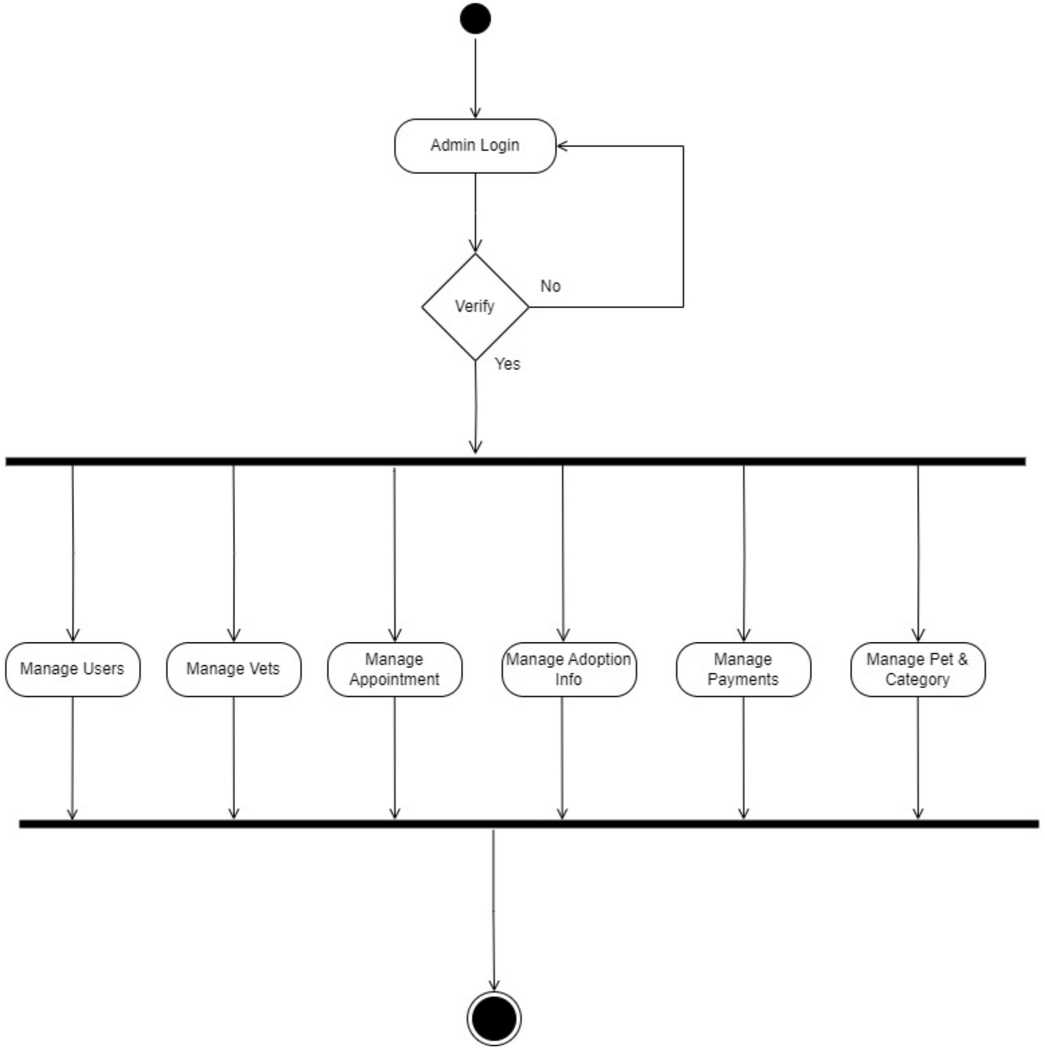
Flowchart:


Start
Is Registered?
No
Register
Yes
Login
Is valid?
Yes
No
Is user?
No
Is admin?
No
Vet
Yes
Yes
Home page Overview
Explore Pets
View Available Vets
View Pet Information
Book Vet
Contact Shelter
Make Payment
Provide Feedback
Provide Feedback
Profile Managment
Update Information
View Adoption History
Pet Health Records
View Health Records
View Vaccination Status
Manage Users
Manage Vets
Mange Appointment/ Session
Manage Adoption Info
Manage Payments
Manage Pets & Category
Manage Profile
Manage Appointments
Update Availbility
View reviews of user
Withdraw Payment
Post Article
End

UML Diagrams

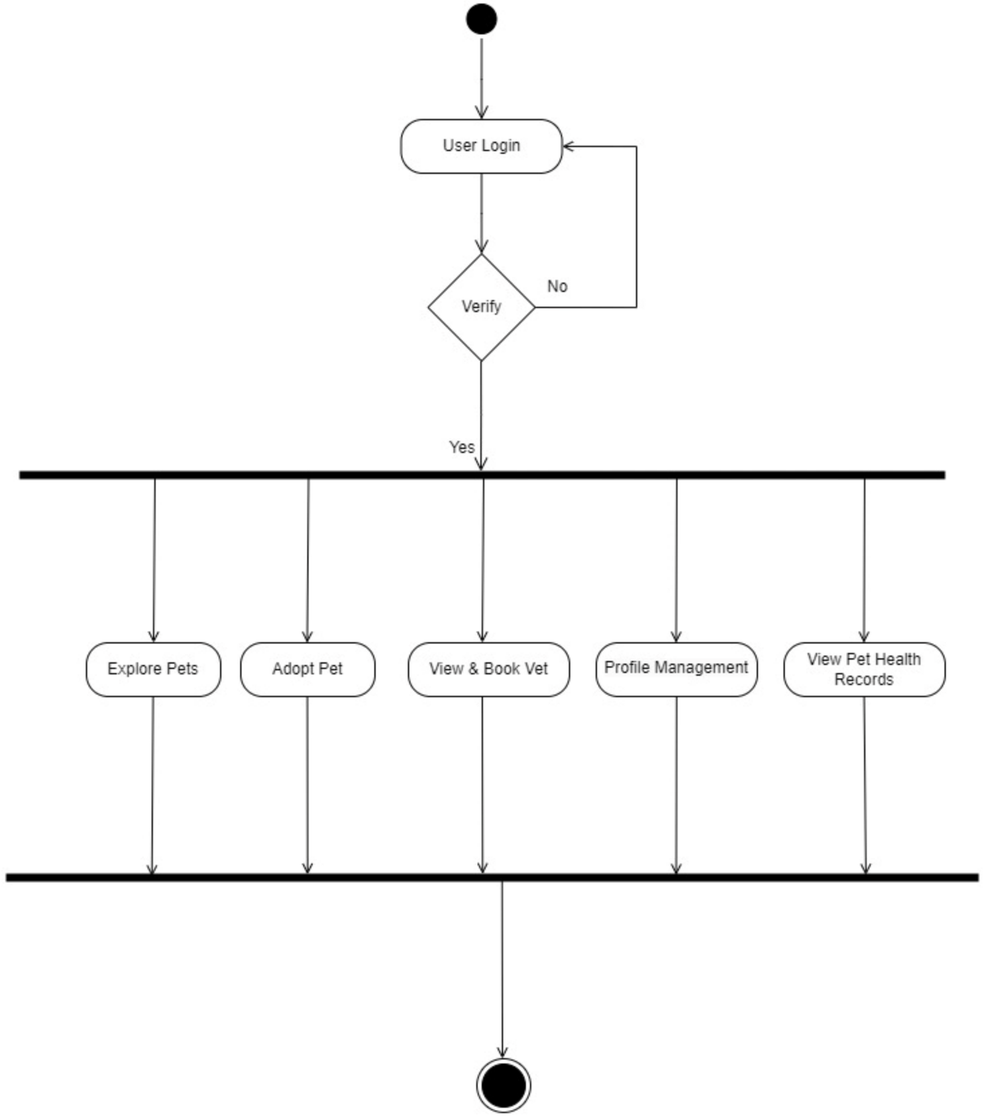
Activity Diagram:

Admin



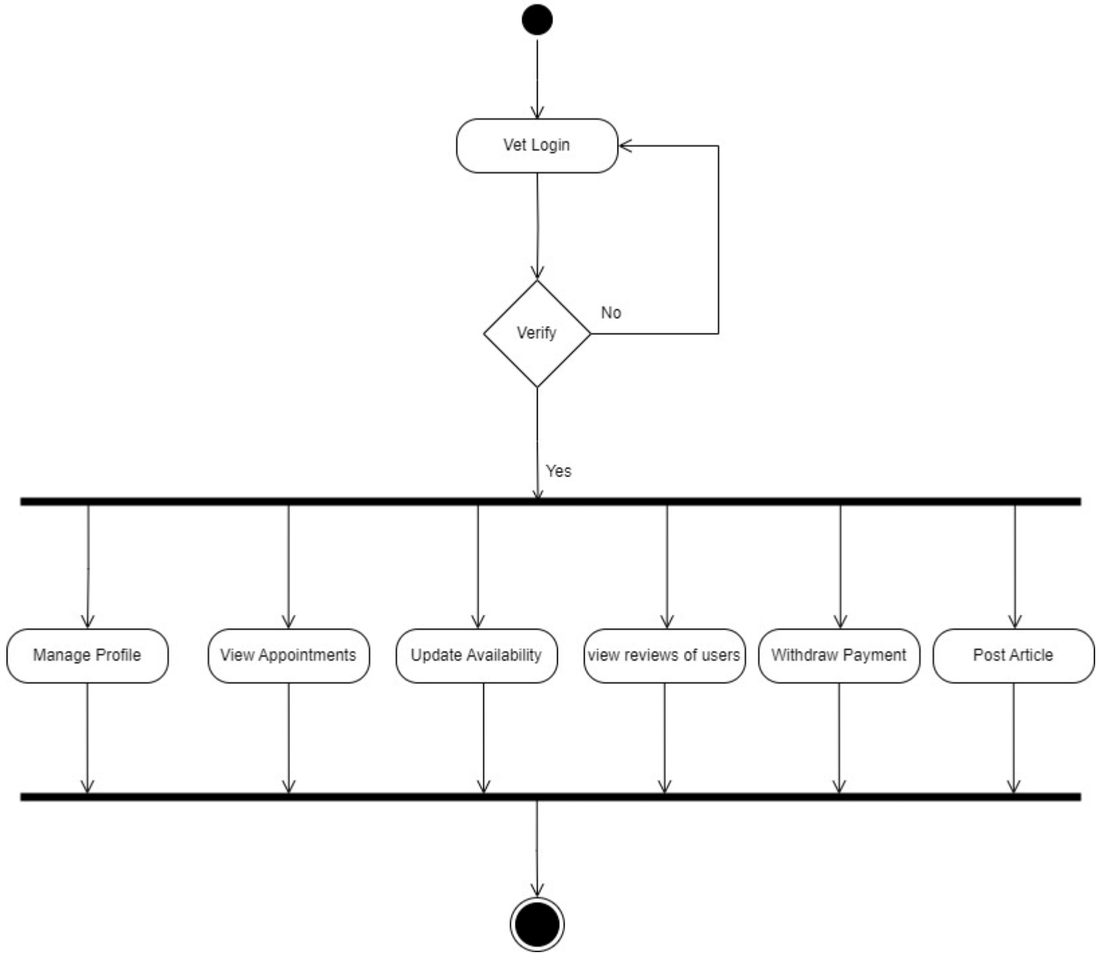
Activity Diagram:

User



Activity Diagram:

Vet



Use Case Diagram:

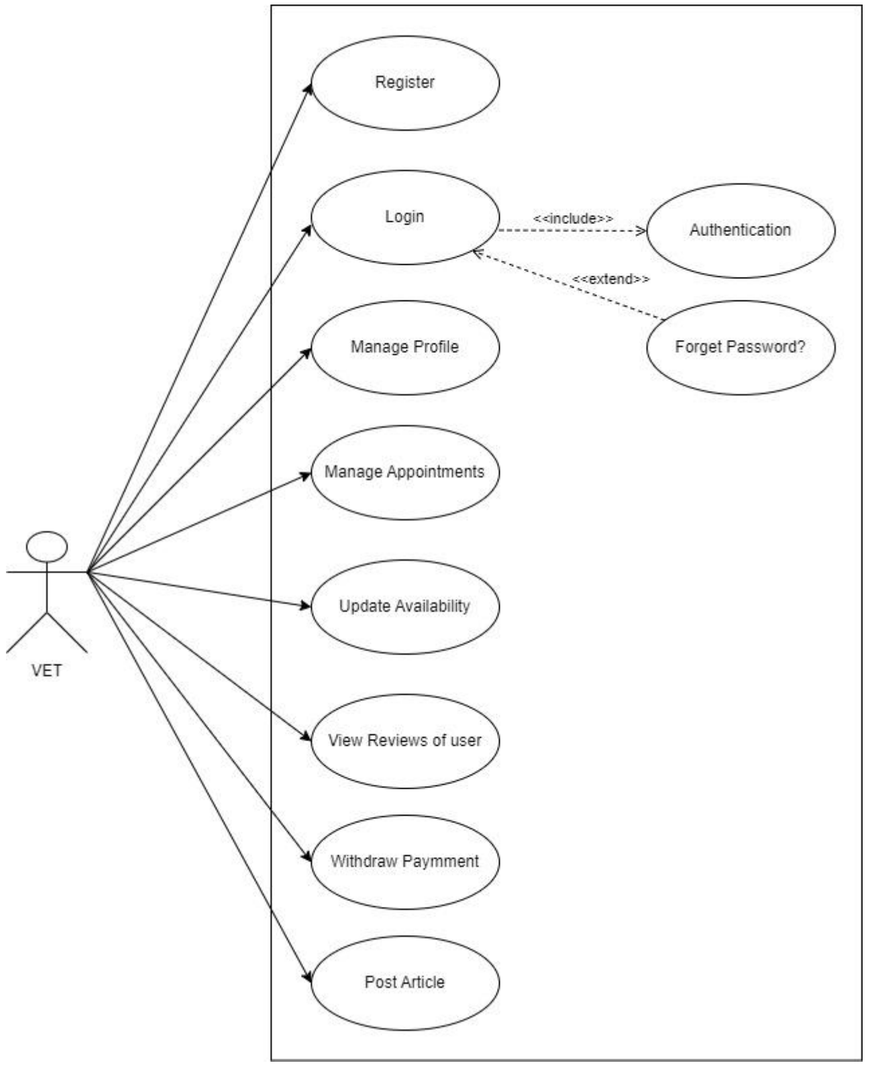
Admin

Use Case Diagram:

User

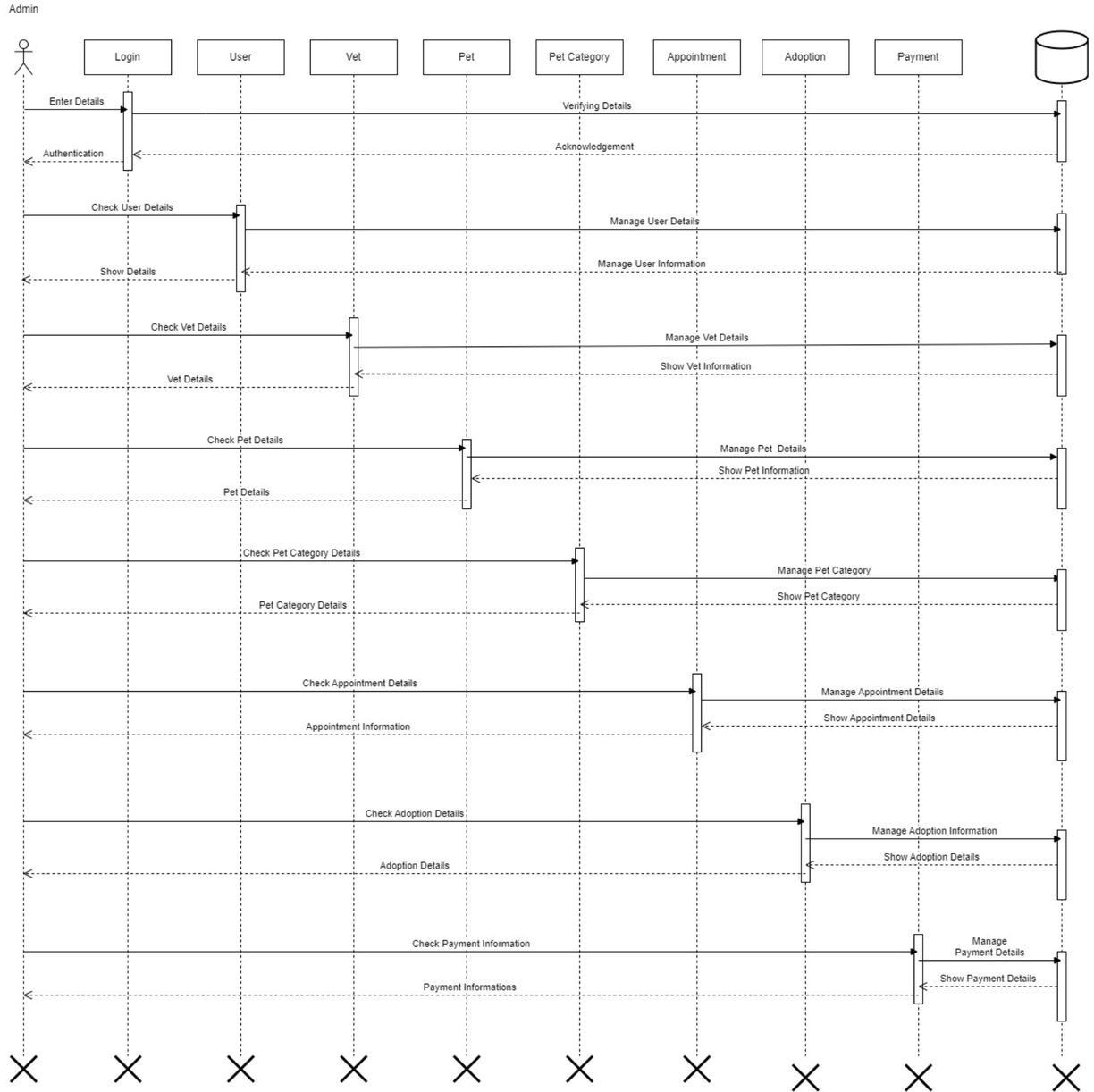
Use Case Diagram:

Vet



Sequence Diagram:

Admin



Sequence Diagram:

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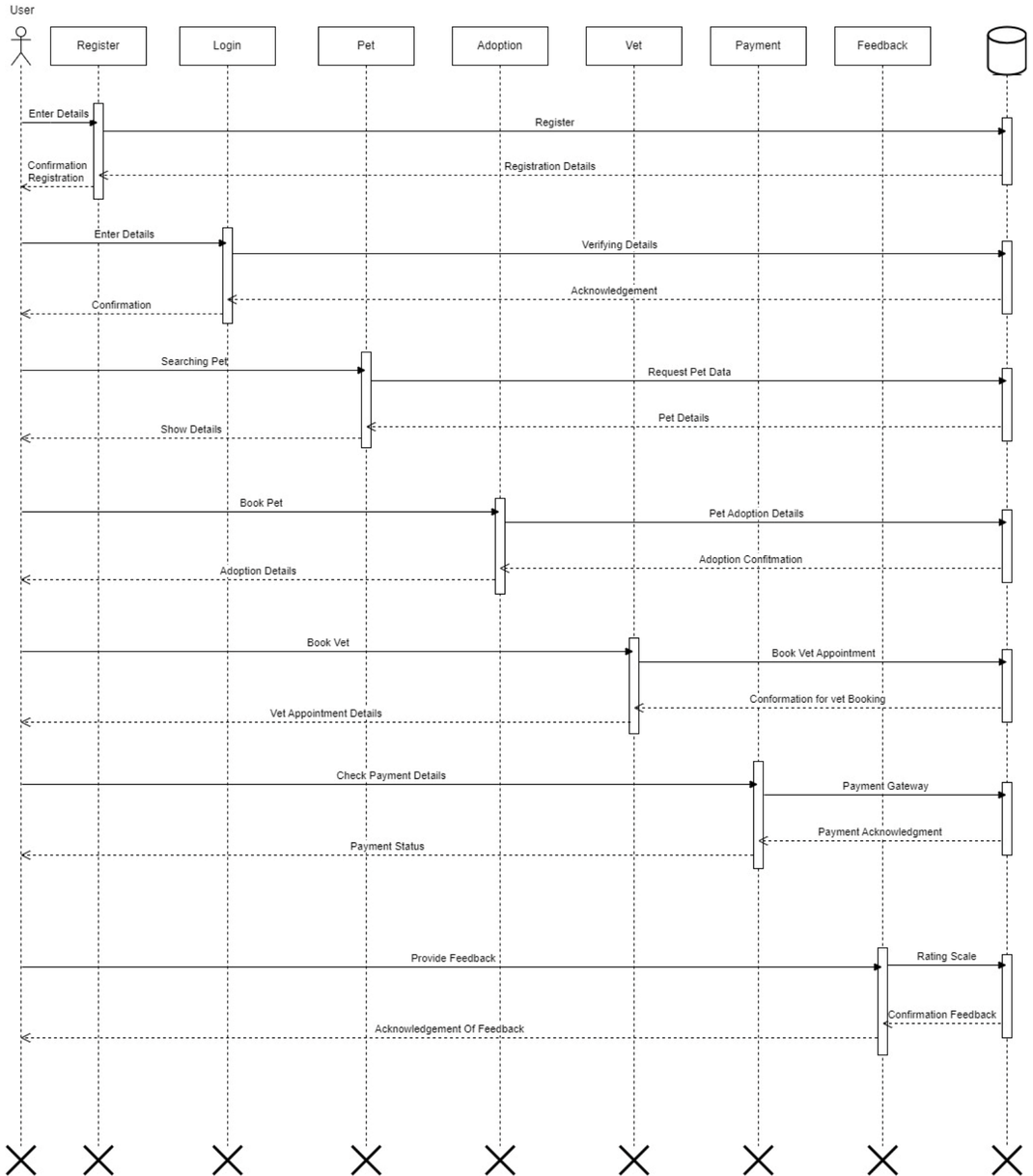
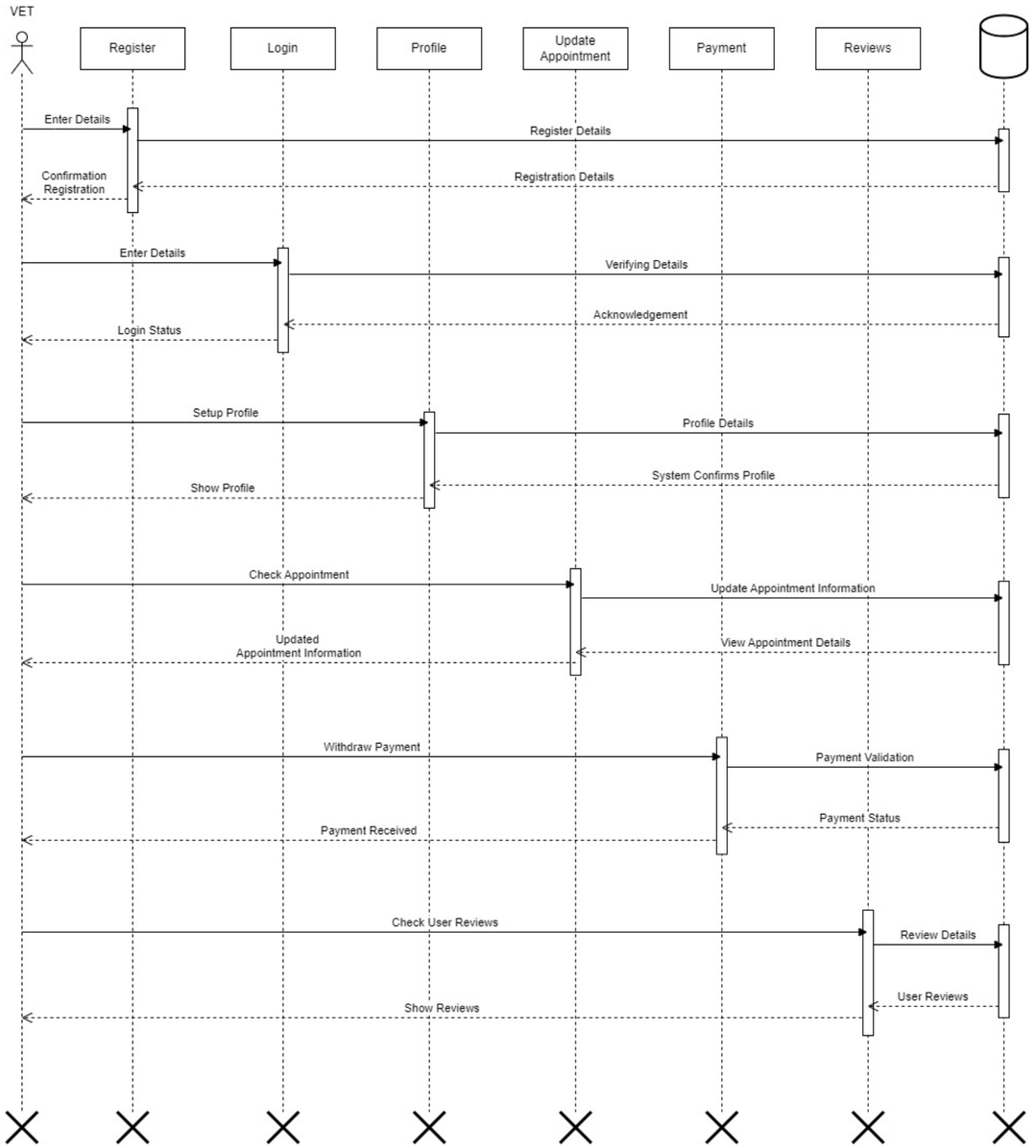
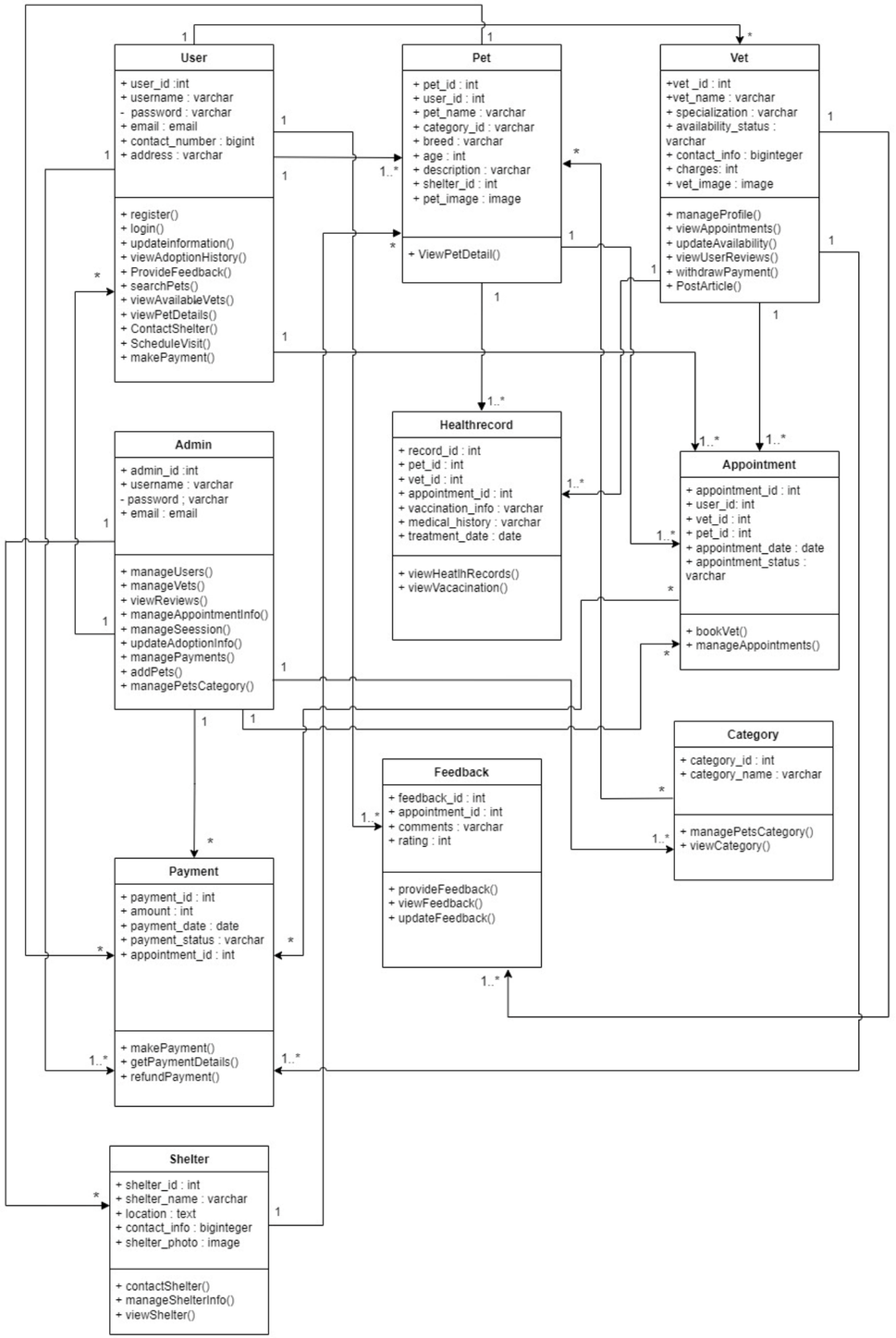


Sequence Diagram:

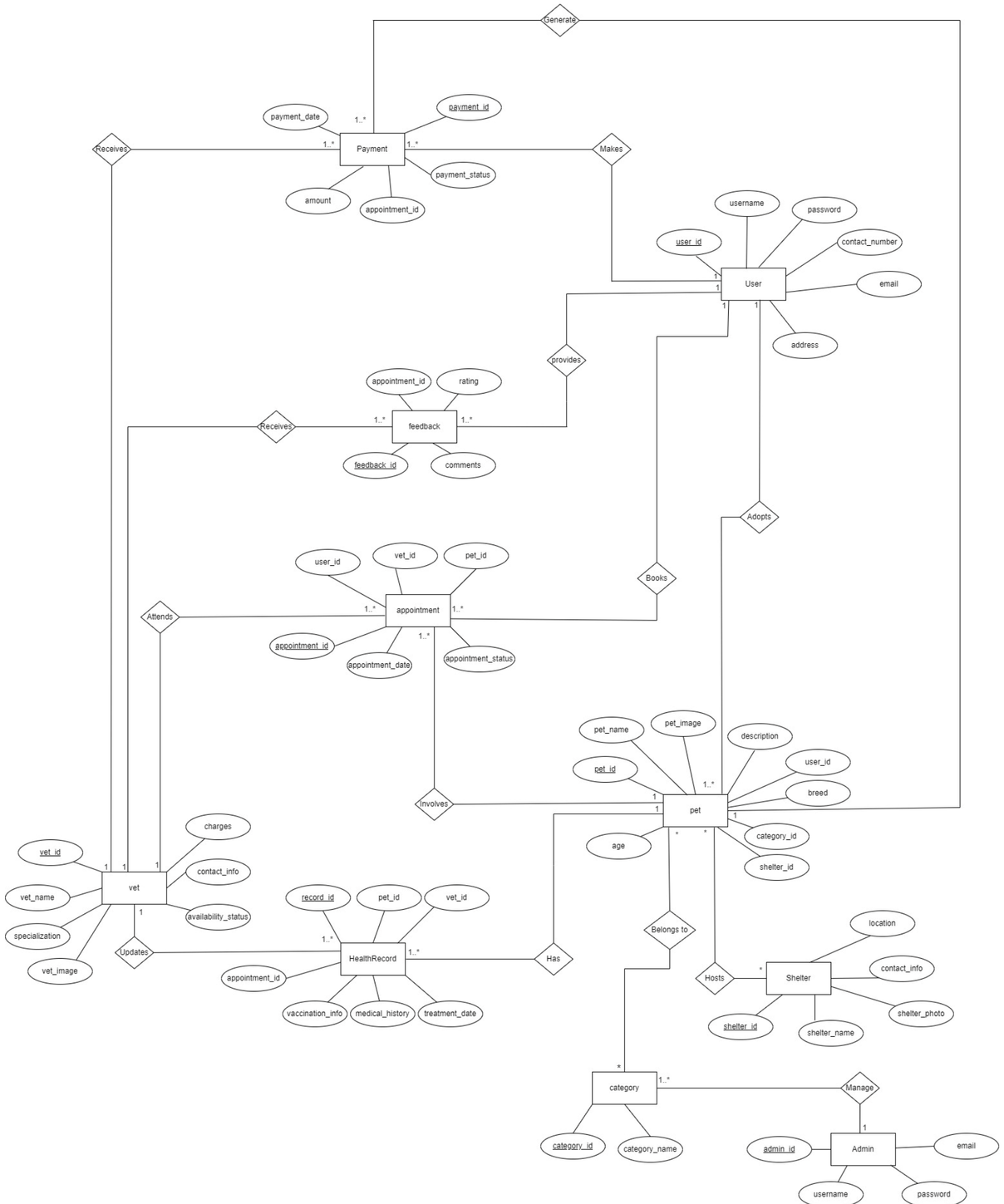
Vet



Class Diagram:



ER Diagram:-


Generate
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payment_id
Payment
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appointment_id
payment_status
Receives
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username
password
user_id
contact_number
User
email
address
provides
appointment_id
rating
feedback
feedback_id
comments
Receives
Adopts
Books
user_id
vet_id
pet_id
appointment
appointment_id
appointment_date
appointment_status
Attends
pet_name
pet_image
description
pet_id
user_id
breed
pet
category_id
shelter_id
age
Involves
charges
vet_id
contact_info
vet
vet_name
availability_status
specialization
vet_image
Updates
record_id
pet_id
vet_id
HealthRecord
appointment_id
vaccination_info
medical_history
treatment_date
Has
Belongs to
location
Hosts
Shelter
contact_info
shelter_id
shelter_name
shelter_photo
category
Manage
category_id
category_name
admin_id
Admin
email
username
password

Data Dictionary:

1. User_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
User_id	Primary_key	INT	5	Unique identifier for each user.
User_name	Not_Null	VARCHAR	35	Username chosen by the user.
Password	Not_Null	VARCHAR	10	Encrypted password for user authentication.
Email	Not_Null	VARCHAR	35	Email address of the user.
Contact	Not_Null	BIG INT	10	User's contact number.
Address	Not_Null	VARCHAR	255	Physical address of the user.

2. Admin_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Admin_id	Primary key	INT	5	Unique identifier for each admin.
Username	Not_Null	VARCHAR	35	Name of the admin.
Password	Not_Null	VARCHAR	20	Password for admin.
Email	Not_Null	VARCHAR	35	Email id for admin.

3. Vet_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Vet_id	Primary key	INT	5	Unique identifier for each vet.
Vet_name	Not_Null	VARCHAR	25	Name of the vet.
Vet_image	Not_Null	IMAGE	25	Image of the vet.
Specialization	Not_Null	VARCHAR	15	Area of expertise or specialization (e.g., surgery, dermatology).
Contact_info	Not_Null	BIG INT	10	Contact number for the vet.
Charges	Not_Null	INT	5	Refers to the payment records for the vet.
Availability_status	Not_Null	VARCHAR	5	The vet's available hours or days.

4. Category_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Category_id	Primary key	INT	5	Unique identifier for each category.
Category_name	Not_Null	VARCHAR	5	Name of the category (e.g., Dog, Cat).

5. Shelter_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Shelter_id	Primary key	INT	5	Unique identifier for each shelter.
Shelter_name	Not_Null	VARCHAR	25	Name of the shelter.
Shelter_photo	Not_Null	VARCHAR	15	Photo of shelter.
Shelter_contact_info	Not_Null	BIG INT	10	Contact number for the shelter.
location	Not_Null	VARCHAR	75	Physical address of the shelter.

6. Pet_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Pet_id	Primary Key	INT	5	Unique identifier for each pet.
Pet_name	Not_Null	VARCHAR	35	Name of the pet.
Pet_image	NOT_NULL	IMAGE	25	Image of the pet.
Description	NOT_NULL	VARCHAR	80	Information about pet.
Age	Not_Null	INT	5	Age of the pet in years.
Breed	Not_Null	VARCHAR	15	Breed of the pet.
Category_id	Foreign key	INT	5	Refers to the category (e.g., dog, cat).
Shelter_id	Foreign Key	INT	5	Refers to the shelter hosting the pet.
User_id	Foreign Key	INT	5	For user reference, if user have own pet for vet appointment.

7. Appointment_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Appointment_id	Primary key	INT	5	Unique identifier for each appointment.
User_id	Foreign key	INT	5	Refers to the user booking the appointment.
Vet_id	Foreign key	INT	5	Refers to the vet handling the appointment.
Pet_id	Foreign key	INT	5	Refers to the pet involved in the appointment.
Appointment_date	Not_Null	DATETIME	15	The date and time of the appointment.
Appointment_status	Not_Null	VARCHAR	15	Status of the appointment.

8. Payment_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Payment_id	Primary key	INT	5	Unique identifier for each payment.
appointment_id	Foreign key	INT	5	Refers to the appointment for which payment is made.
Amount	Not_Null	INT	8	Amount paid.
Payment_date	Not_Null	DATETIME	15	Date and time of the payment.
Payment_status	Not_Null	VARCHAR	5	Payment status.

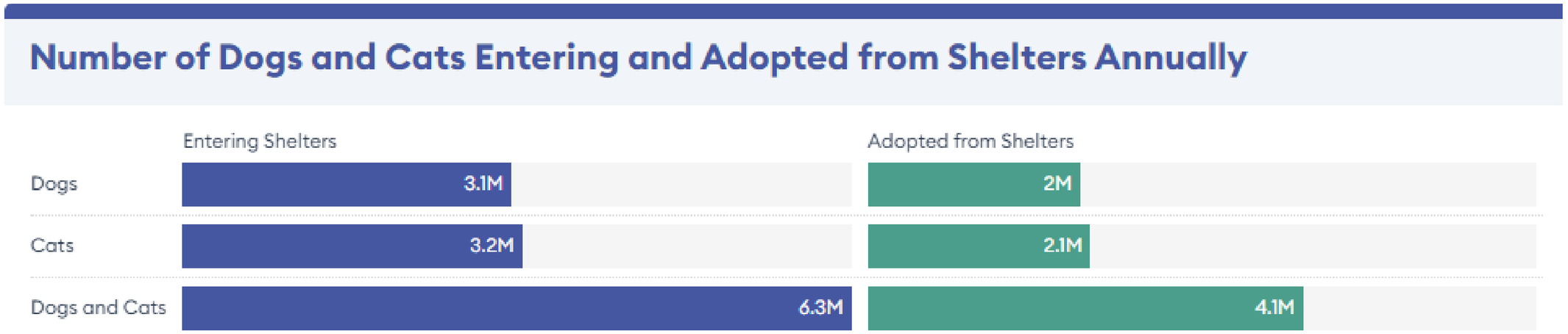
9. Healthrecord_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Record_id	Primary key	INT	5	Unique identifier for each health record.
Pet_id	Foreign key	INT	5	Refers to the pet's health record.
Vet_id	Foreign key	INT	5	Refers to the vet for confirm pet health details.
Appointment_id	Foreign Key	INT	5	Refers to the pet health information.
Vaccination_info	Not_Null	VARCHAR	80	Vaccination and health information of the pet.
Medical_history	Not_Null	VARCHAR	60	Pet’s medical history.
Treatment_date	Not_Null	DATETIME	15	Date the pet was check by a vet.

10. Feedback_Table

ATTRIBUTE	CONSTRAIN	DATATYPES	SIZE	DESCRIPTION
Feedback_id	Primary key	INT	5	Unique identifier for each feedback entry.
Appointment_id	Foreign key	INT	5	Refers to the appiontment providing feedback.
Comments	Not_Null	VARCHAR	80	Comments or feedback provided by the user.
rating	Not_Null	INT	1	Rating provided between 0(very bad) to 5(very good or excellent)

Data Analysis:



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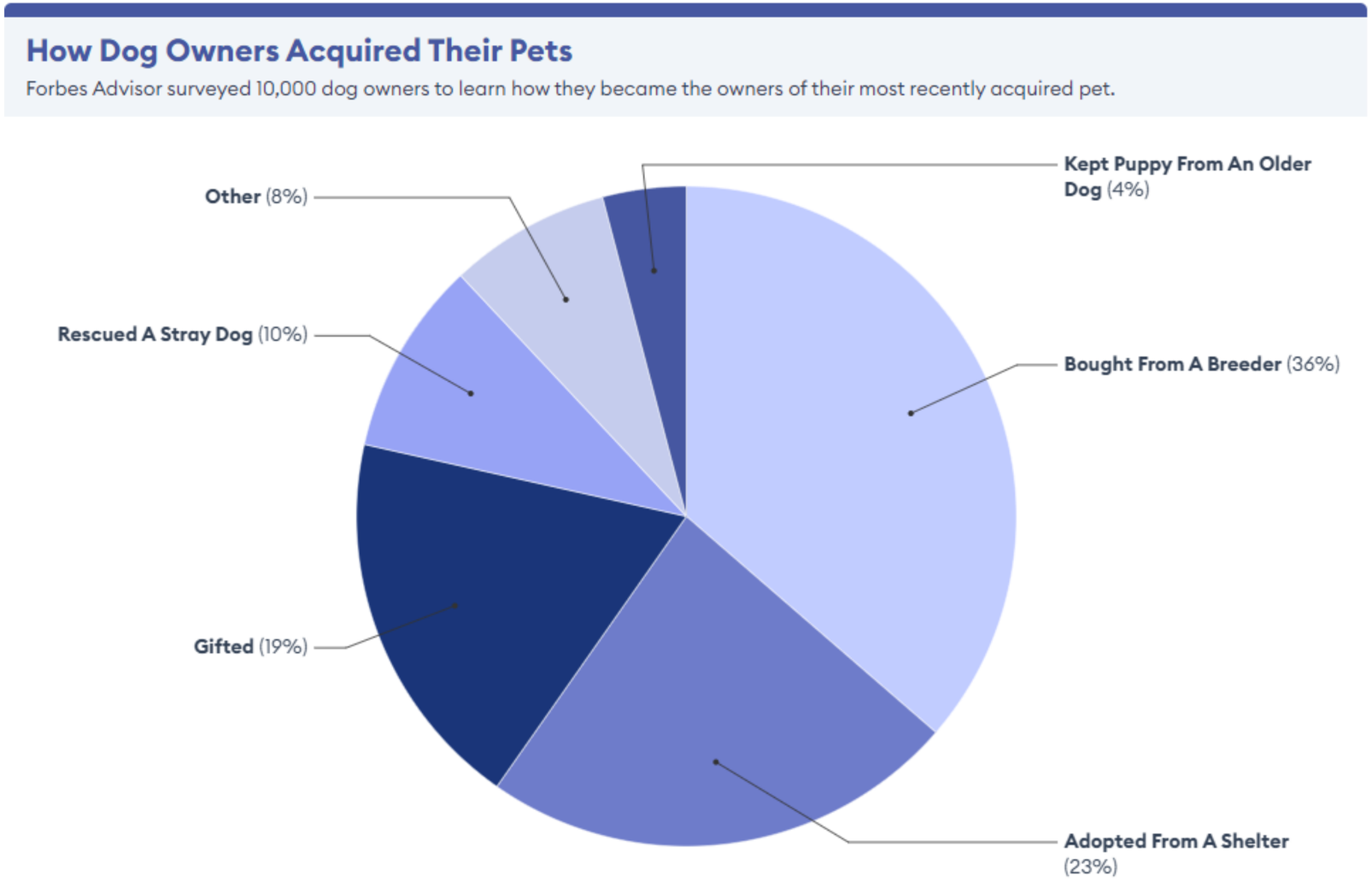

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THANK YOU