

**A**  
**PROJECT REPORT**  
**ON**  
**PETWellnessHub**  
Submitted in partial fulfilment for the award of  
**(PG-DAC) from**  
**Institute of Emerging Technologies**  
**Authorized Training Centre**



**Under the Guidance of Mrs.Sampada Tarare**

**BY Name of students and PRN**

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## Certificate

This is to certify that the project report entitled **PetWellnessHub: The web based platform for all pet related services** is a bonfire work carried out by **1.Khedkar Sonali Pandurang, 2. Shahane Abhishek Dhiraj, 3. Jangale Shubham Rajendra, 4. Malsane Bhushan Shanataram, 5. Killedar Shreyash Satish** submitted in partial fullfilment of the requirement for the C-DAC ACTS, DAC course in the Institute of Emerging Technology in the batch of sept 2023.

Course Coordinator

External Examiner

## ACKNOWLEDGEMENT

This project **PetWellnessHub : The Web-based Platform for all Pet related services** was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC).

We are very glad to mention **Mrs.Sampada Tarare** for her valuable guidance to work on this project. His guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

Our most heart full thanks goes to **Mr. Sangram Patil (Director ,IET)** 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.

Sign of Student

**Name of student**

Sr.No.	Name	PRN	Sign
1.	Khedkar Sonali Pandurang	230945920097	
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## **ABSTRACT**

The web-based PetWellnessHub project is an attempt to provide all in one platform to the pet owners. It aspires to provide the pet owners a multitude of products and services for their pets. The designed platform enables the pet owners to do the following things such as search for pet related services such as trainers, grooming, veterinary and food which they are looking for there pets on a specified date. They can select the services which they are looking for there pets and can book an appointment for particular time. The system provides a facility to a pet related service providers to register on the website and post the advertisement of there services on the portal. We have also included an admin section who is going to verify and manage the profiles of the service providers and pet owners.

In order to develop an pet care website, a number of Technologies must be studied and understood. These include multi-tiered architecture, server and client side scripting techniques, implementation technologies such as Spring MVC, programming language (such as Core Java, Advance Java), relational databases (such as MySQL).

This is a project with the objective to develop a basic website where a consumer is provided with a multiple products and services on a single platforms.

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# **1.INTRODUCTION**

This platform is a comprehensive hub designed to connect pet enthusiasts with a wide range of products and services essential for their pets' well-being. Whether you're a petowner, a service provider, or someone passionate about the welfare of animals, this project offers a dynamic and supportive ecosystem.

## **1.1 Purpose**

This PetWellnessHub Software Requirement Specification (SRS) main objective is to provide a base for the foundation of the project. It gives a comprehensive view of how the system is supposed to work and what is to be expected by the end users. Client's expectation and requirements are analyzed to produce specific unambiguous functional and non-functional requirements, so they can be used by development team with clear understanding to build a system as per end user needs.

This SRS for PetWellnessHub can also be used for future as basis for detailed understanding on how project was started. It provides a blueprint to upcoming new developers and maintenance teams to assist in maintaining and modifying this project as per required changeability.

## **1.2 Need Of PetWellnessHub**

Integrating online selling and purchasing of pets, pet products, veterinary services and many more into a pet wellness hub enhances convenience, accessibility, transparency, and the overall customer experience. It extends the reach of the hub, caters to diverse needs, and fosters a stronger connection between pet owners and the hub's offerings.

## **1.3 Overview**

The remaining sections of this documentations describes the overall descriptions which includes product perspective and functions, characteristics of users. It also consists of Assumptions, and Constraints. Overall description is listed in section 2. Section 3 includes Specific Requirements which consists of Functional and Non- functional requirements, External Interface Requirements, Software System Attributes, Performance Requirements, Capacity Requirements, Availability Requirements, Safety Requirements and Requirement Traceability Matrix.

## **2. Problem Defination and scope**

### **2.1 Problem statement and Scope of the Project**

Handle the technical issues you might face in your project:

Data Modelling and Database Design:

Invest time in planning your database schema. Consider using an Object-Relational Mapping (ORM) tool like Hibernate in Spring Boot to simplify database interactions and reduce complexity. Regularly review and refine your schema as your project evolves.

User Authentication and Authorization:

Utilize established authentication libraries (e.g., Spring Security) to handle user authentication and authorization. Follow best practices, such as using hashed passwords, implementing secure password reset workflows, and applying role-based access control.

Concurrency and Data Consistency:

Use database transactions effectively to manage data consistency and handle concurrent updates. Understand isolation levels and optimistic/pessimistic locking strategies to prevent conflicts and maintain data integrity.

Search and Filtering:

Consider using search engines like Elasticsearch for efficient and fast search capabilities. Implement pagination and apply indexing to improve search performance. Cache frequently used search results to reduce database load.

### **2.2 Goals and Objective**

Our project's primary goal is to create a bridge between pet owners and the services they need while promoting responsible pet selling-purchasing and more services. We envision a community where the well-being of animals is prioritized, and users have access to trusted resources and interactions.

### **2.3 Product Functions**

Our Product General functions are:

- User, Provider and Admin Login
- Add Products

- Buy Product
- Payment
- Add Veterinary in Service
- Book appointment
- Edit Products
- Edit Services

## **2.4 User Characteristics**

There are 3 user Levels in our PetWellnessHub Project:

- A. User
- B. Provider
- C. Admin – Support system

**User** They can create accounts, explore listings, interact with service providers, and post reviews based on their experiences.

**Provider** Service providers can showcase their offerings, manage their listings, interact with customers, and ensure the highest level of service.

**Admin** Behind the scenes, our admin dashboard empowers administrators to maintain the integrity of the platform. Admins can manage user accounts, verify providers, review listings, and ensure a safe and reliable environment for all users.

## **2.5 Major Constraints and Outcomes**

### **Major Constraints in our Project**

1.**Scalability:** The system needs to be able to handle a large number of Users and bookings, as well as handle spikes in traffic during peak seasons.

2.**Security:** The system must ensure the security of user data, including personal information, payment details, and booking history.

3.**Reliability:** The system must be available and responsive at all times to ensure that users can make bookings and access their information without interruption.

4.**User experience:** The system must be easy to use and navigate for both Users and staff.



**5.Accessibility:** The system must be accessible for differently abled users and comply with web accessibility standards.

**6.Cost:** The system must be cost-effective and provide a good return on investment.

**7.Maintenance:** The system must be easy to maintain and update to ensure that it stays up-to date with the latest technologies and features.

### **3.Software Requirement Specification**

#### **3.1 Proposed System and Scope:**

The scope of the Platform is to provide a user-friendly application that is easy to navigate and provides products and services. Two potential groups of viewers exist:

1. Providers: Service providers can showcase their offerings, manage their listings, interact with customers, and ensure the highest level of service.
2. Users (Customers): They can create accounts, explore listings, interact with service providers, and post reviews based on their experiences.

#### **4. System Modules**

1. **Booking Management:** This module allows users to make bookings, view their bookings.
2. **User Management:** This module manages all user-related activities such as registration, login.
3. **Product Management:** This module allows the provider as well as admin to add, edit, and delete products
4. **Payment Management:** This module handles all financial transactions such as accepting payments, refunds, and generating invoices.
5. **Service Management:** This module allows the provider as well as admin to add, edit, and delete services.
6. **Security Module:** This module ensures the security of the system and user data by implementing various security measures such as encryption and authentication.

## 5. Performance Requirements

Performance requirements in a PETWellnessHub platform typically include fast loading times, reliable and secure data storage, and the ability to handle a high volume of simultaneous users and bookings. Other important factors may include user- friendly navigation and booking interface, mobile compatibility. Additionally, a good PETWellnessHub platform should also have robust reporting and analytics capabilities to help the products and services management track occupancy, revenue, and other important performance metrics.

### 5.1 Hardware And Software Requirements

#### External Interface Requirements

##### User Interfaces

The user interface for system shall be compatible to any type of web browser such as Mozilla Firefox, Google Chrome, and Microsoft EDGE, Opera, BING.

##### Software Interfaces

	FRONT END	BACKEND	DATABASE
1	 REACT JS	 J2EE	 MySQL

##### Hardware Interfaces

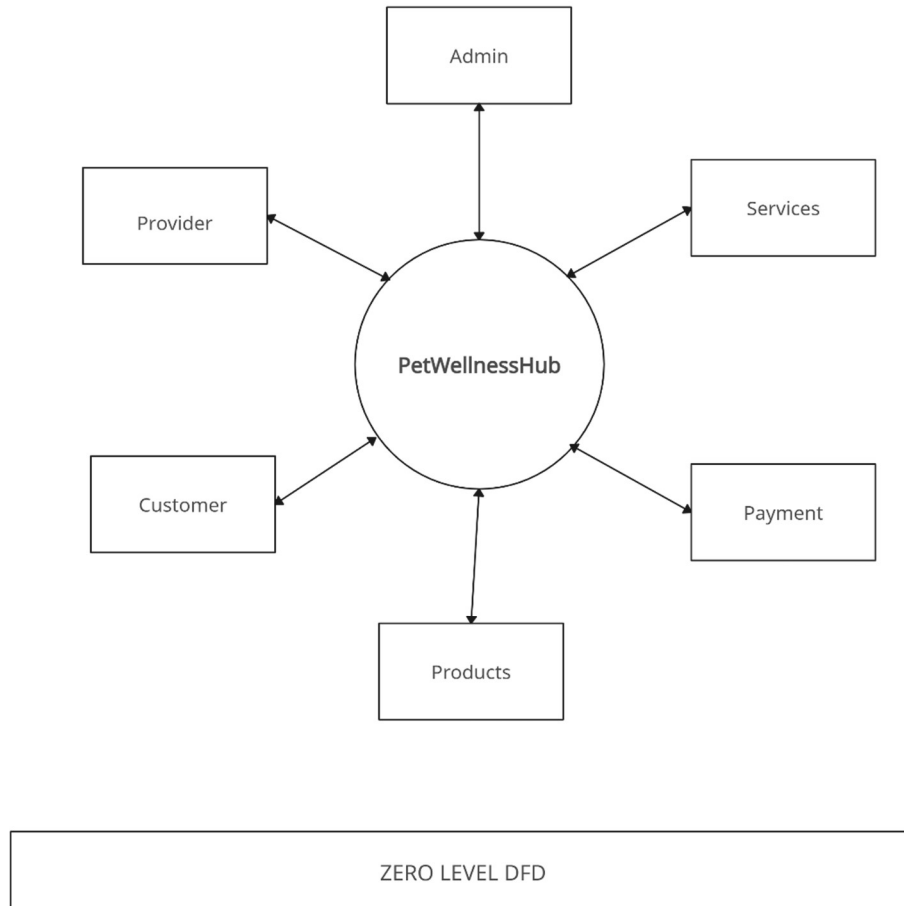
<b>Server Side</b>
--------------------

Monitor	Processor	RAM	Disk Space
Resolution: 1024x768	Intel or AMD 2GHZ OR HIGHER	4GB	10GB
<b>Client Side</b>			
Monitor	Processor	RAM	Disk Space
Resolution: 1024x768	Intel or AMD 1GHZ DUAL CORE MIN	2 GB	128 GB

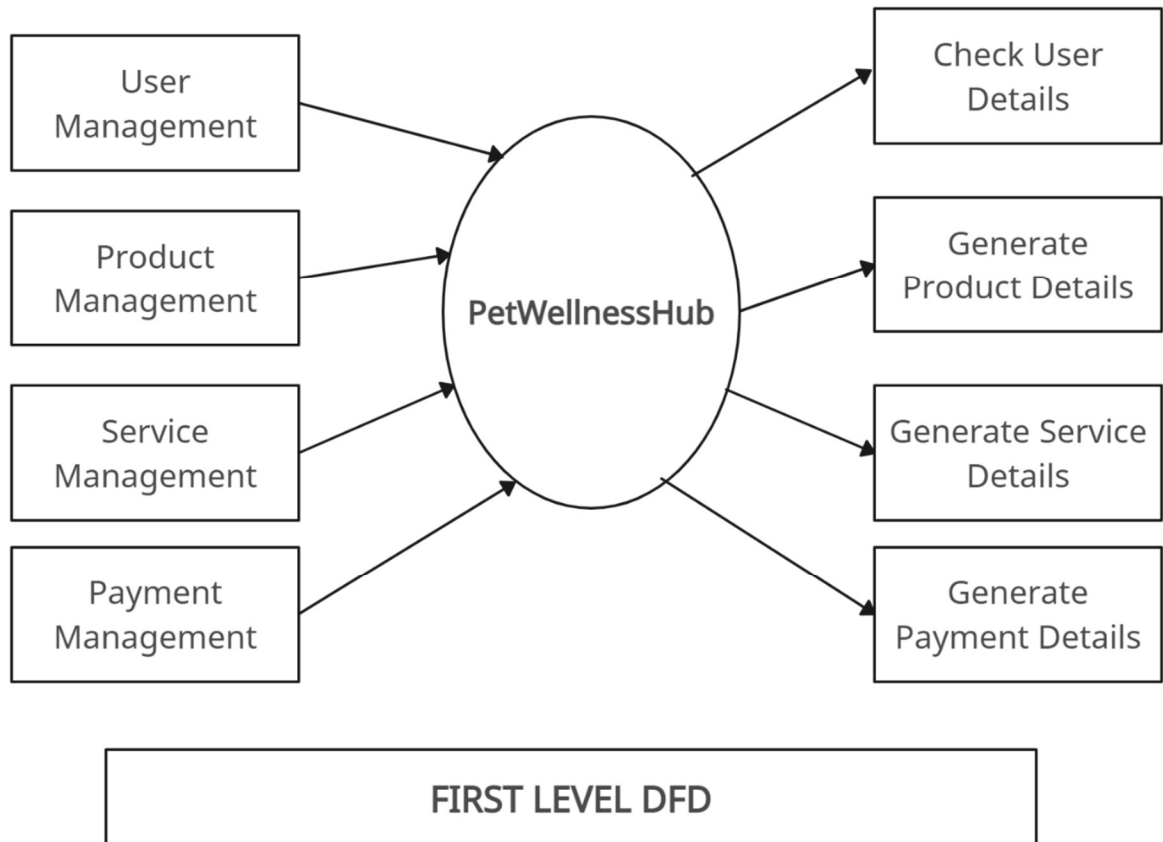
## 6. UML DIAGRAMS

### 6.1 Data Flow Diagram

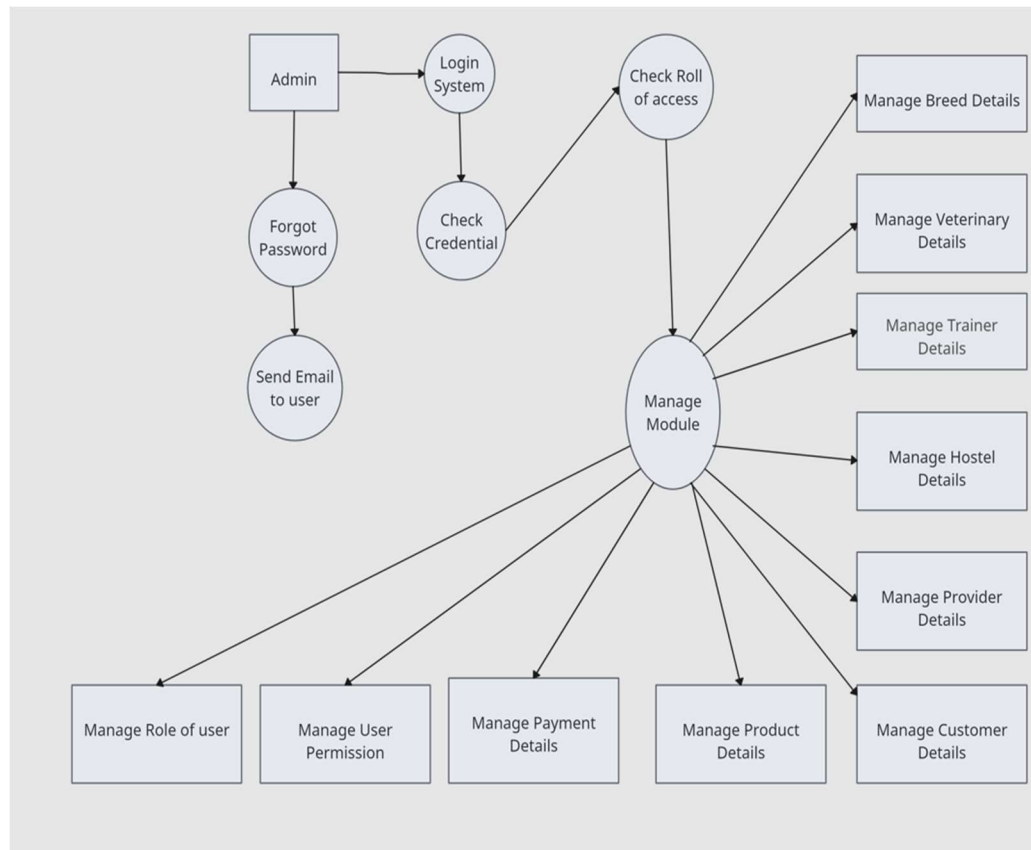
#### 6.1.1 Zero Level Data Flow Diagram



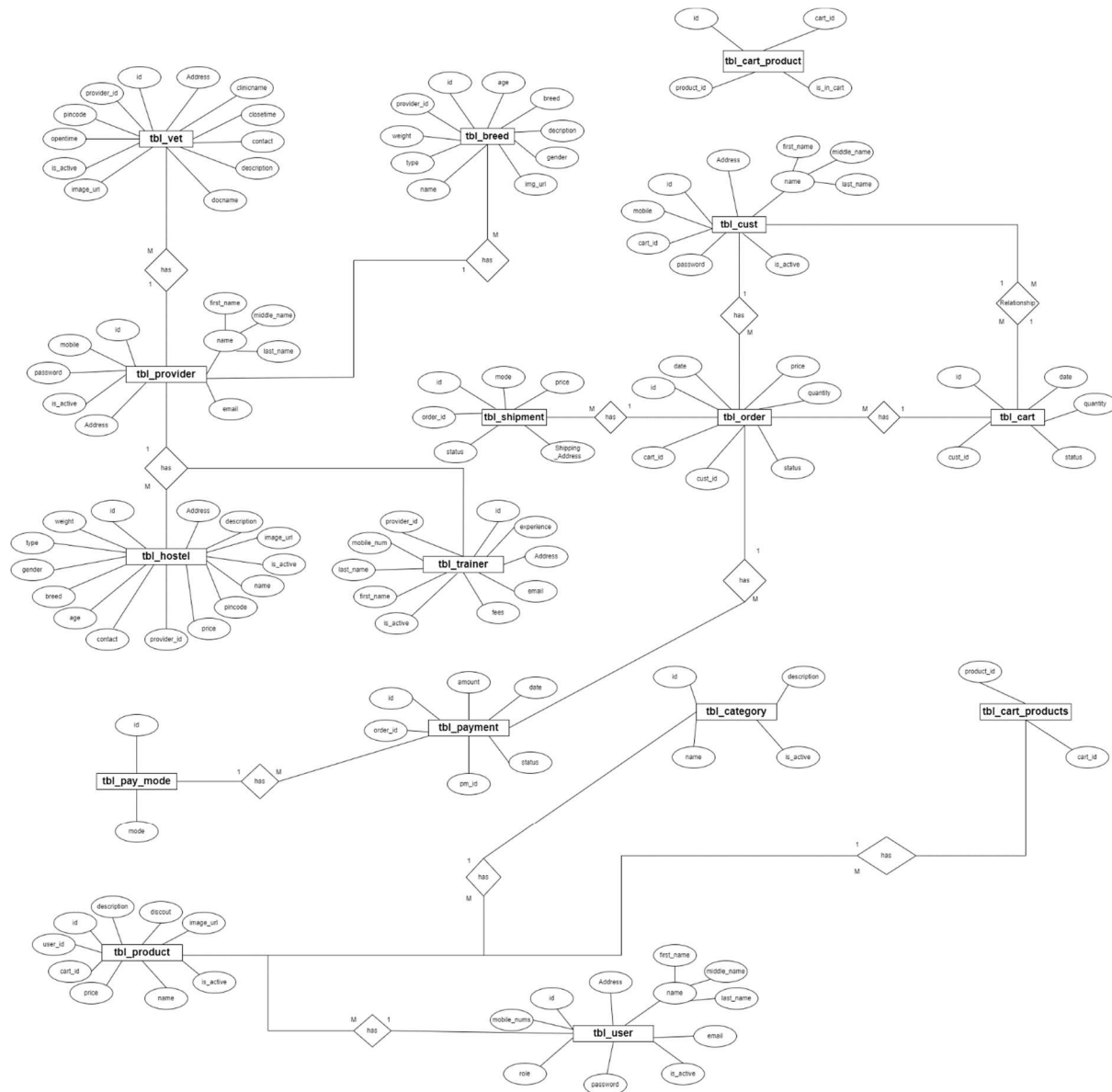
### 6.1.2 First Level Data Flow Diagram



### 6.1.3 Second Level Data Flow Diagram

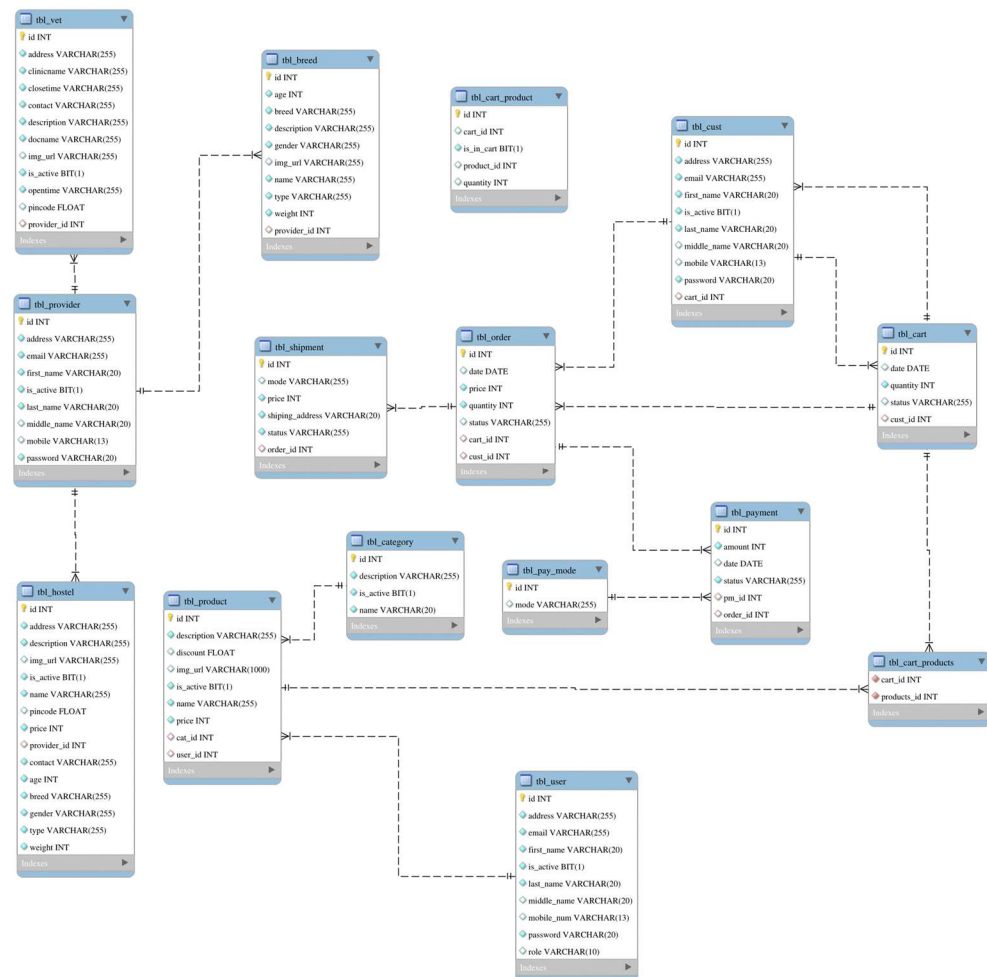


## 6.2 Entity Relationship Diagram

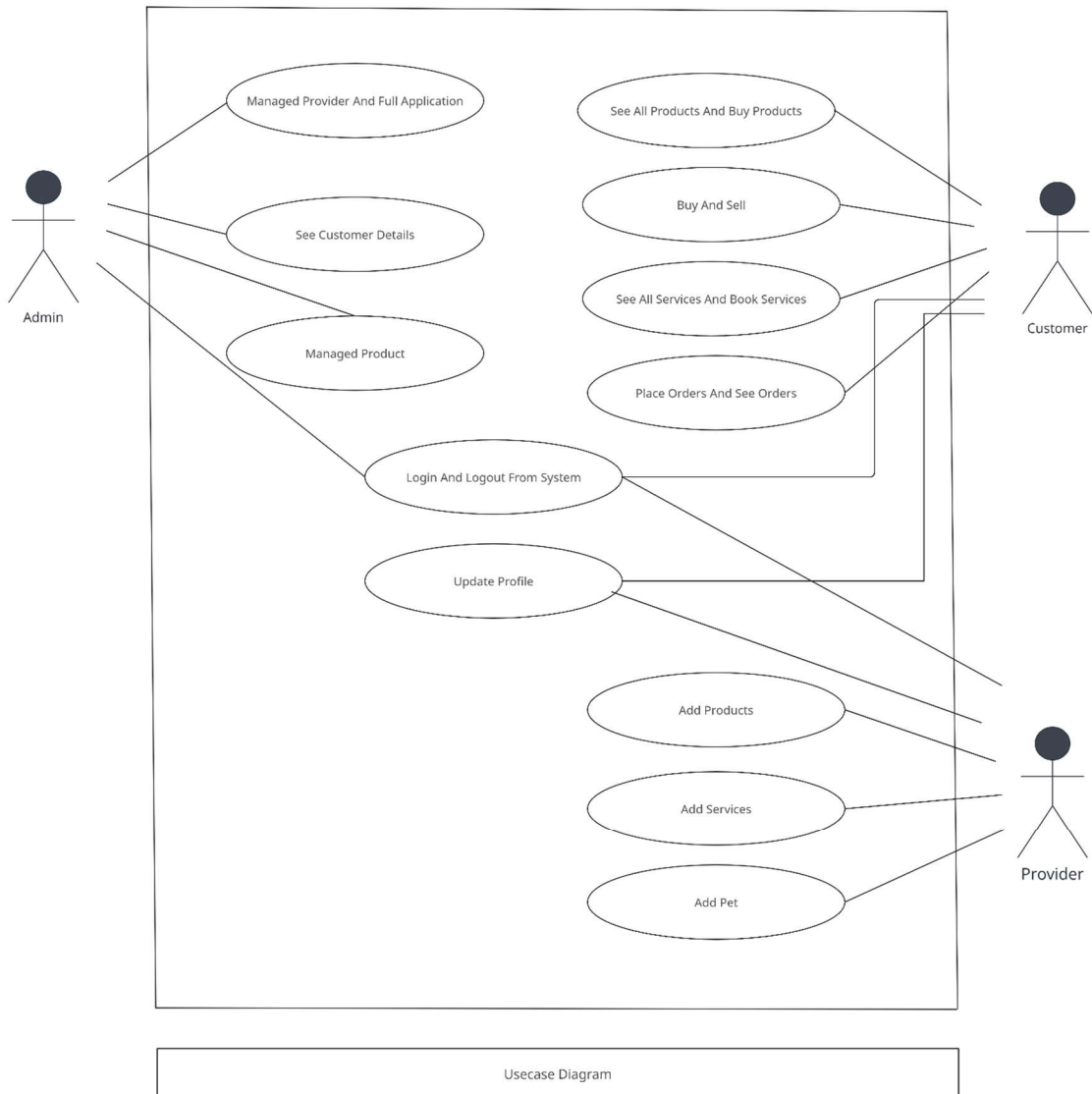




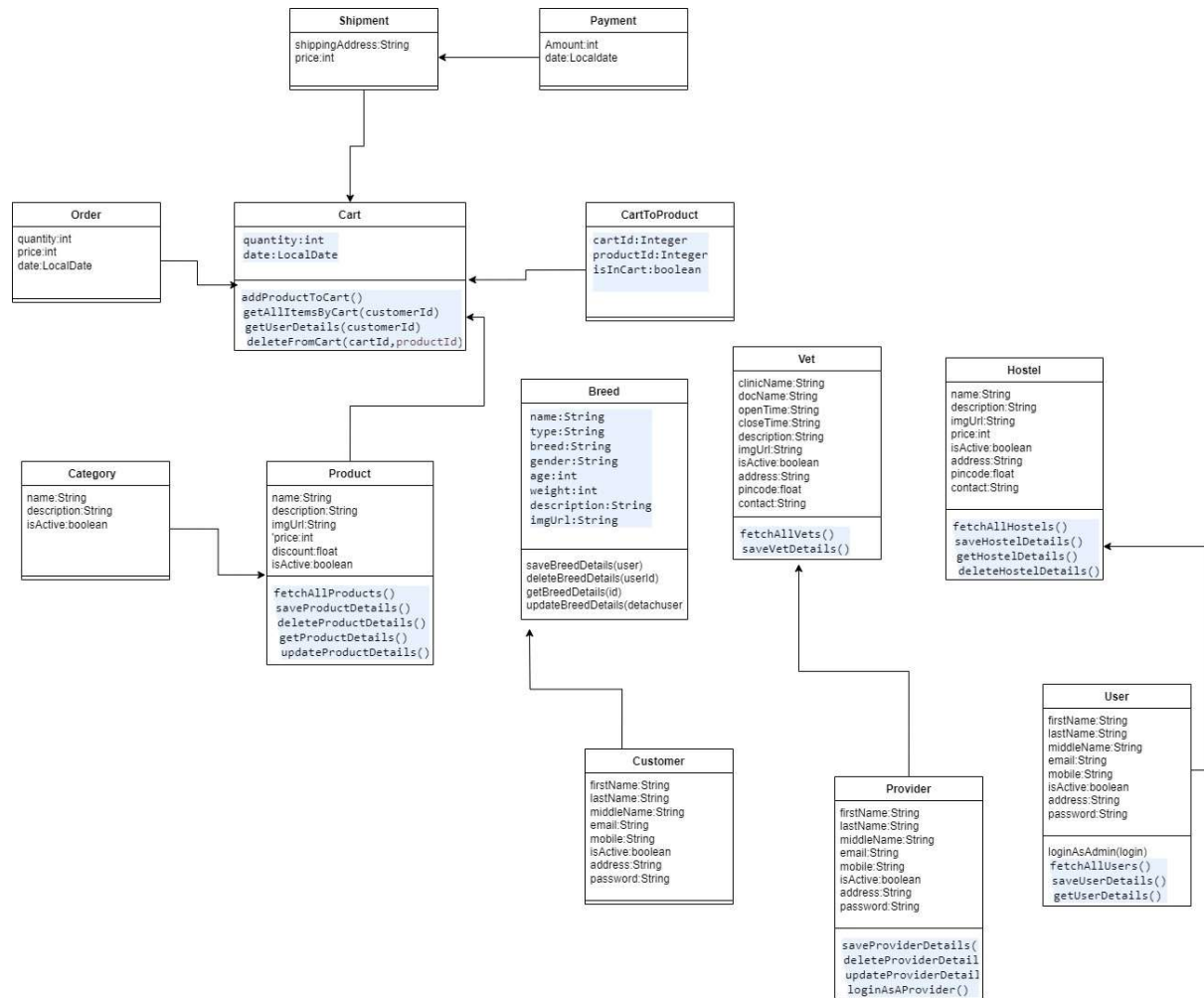
### 6.2.2 Entity Relationship Diagram



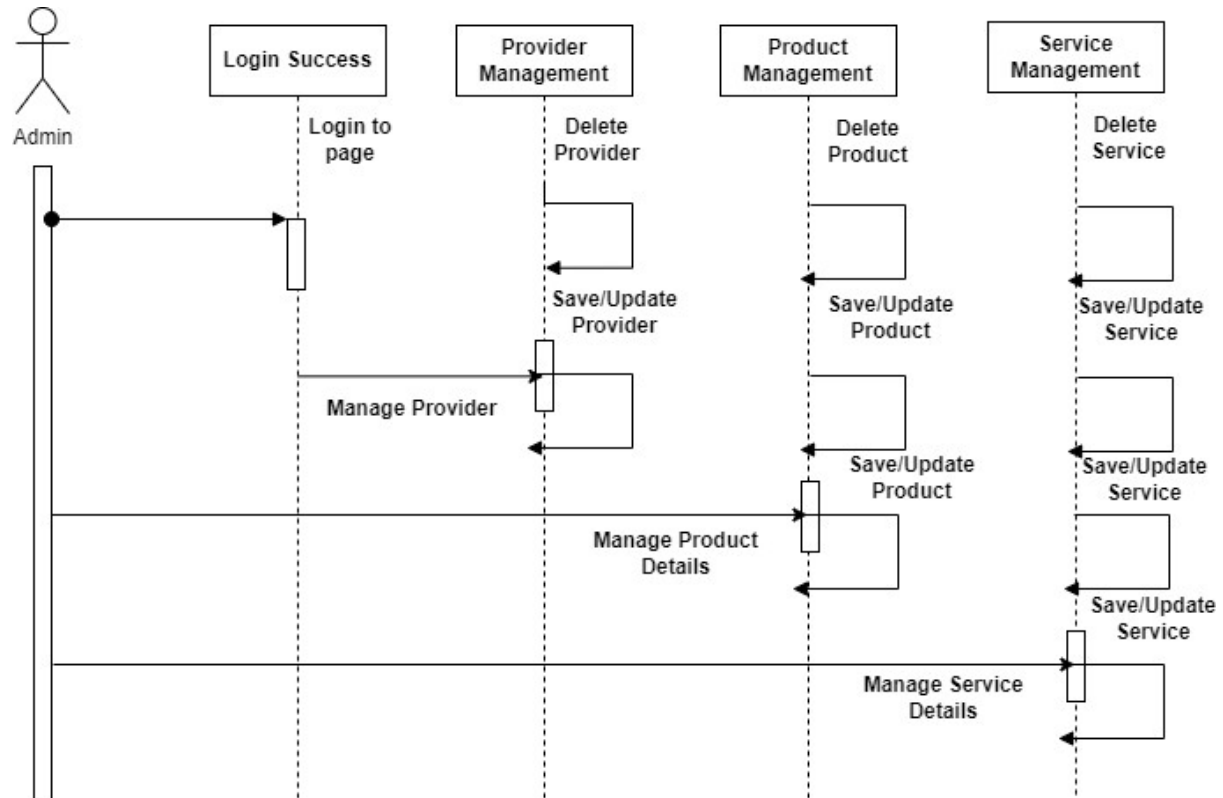
## 6.3 Usecase Diagram



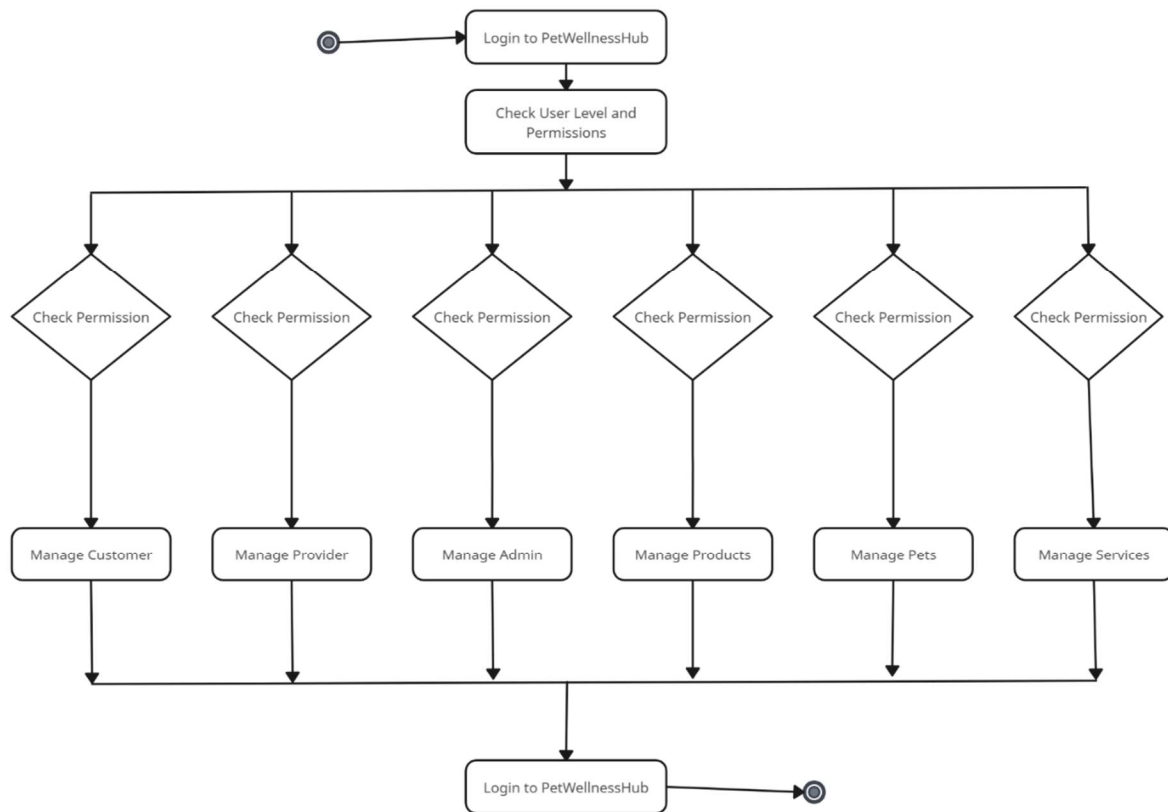
## 6.4 Class Diagram



## 6.5 Sequence Diagram



## 6.6 Activity Diagram



## **7.Test Case**

Test Case ID	Test Case	Test Case I/P	Actual Result	Expected Result	Test case criteria(P/F)
001	Admin enter the correct username or password click on submit button	Username or password	Accept	Accept	P
001	Admin enter the wrong username or password click on submit button	Username or password	Error come	Accept	P
002	Customer enter the correct username or password click on submit button	Username or password	Accept	Accept	P
002	Customer enter the wrong username or password click on submit button	Username or password	Error come	Accept	P
003	Provider enter the correct username or password click on submit button	Username or password	Accept	Accept	P

003	Provider enter the wrong username or password click on submit button	Username or password	Error come	Accept	P
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### Login Test Case and Registration Test Case

Test Case ID	Test Case	Test Case I/P	Actual Result	Expected Result	Test case criteria(P/F)
001	Enter the number in username, middle name,last name field	Number	Error Comes	Error Should Comes	P
001	Enter the character in username, middle name,last name field	Character	Accept	Accept	p
002	Enter the invalid emailid format in email id field	ppgmail,com	Error comes	Error Should Comes	P
002	Enter the valid email idformat in email id field	pp@gmail.com	Accept	Accept	P

003	Enter the invalid digitno in phoneno field	99999	Error comes	Error Should Comes	P
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003	Enter the 10digit no in phone no field	9999999999	Accept	Accept	P
006	Enter the 8 digit password	44444444	Accept	Accept	P

### System Test Cases

Test Case ID	Test Case	Test Case I/P	Actual Result	Expected Result	Test case criteria(P/F)
001	Customer logininto the platform	Username or password	Accept	Accept	P
001	Search for Product as wellas Services	Display all Products and Services	Accept	Accept	P
001	Customer will Buy or Book Service	Booking redirect to payment page	Accept	Accept	P
001	Payment Page	COD Payment	Accept	Accept	P
001	Provider logininto the platform	Username or password	Accept	Accept	P



001	Provider will list his Products and Services on platform	Product Details	Accept	Accept	P
001	Provider will list his Services on platform	Service Details	Accept	Accept	P
001	Admin login into system	Username or password	Accept	Accept	P
002	Admin Dashboard	Dashboard	Accept	Accept	P
002	Admin can see Customers table	tbl_cust table	Accept	Accept	P
003	Admin can see Providers lists	tbl_provider Table	Accept	Accept	P
003	Admin can see Products and Services table	All product and Service related Tables	Accept	Accept	P

### Logout Test Cases

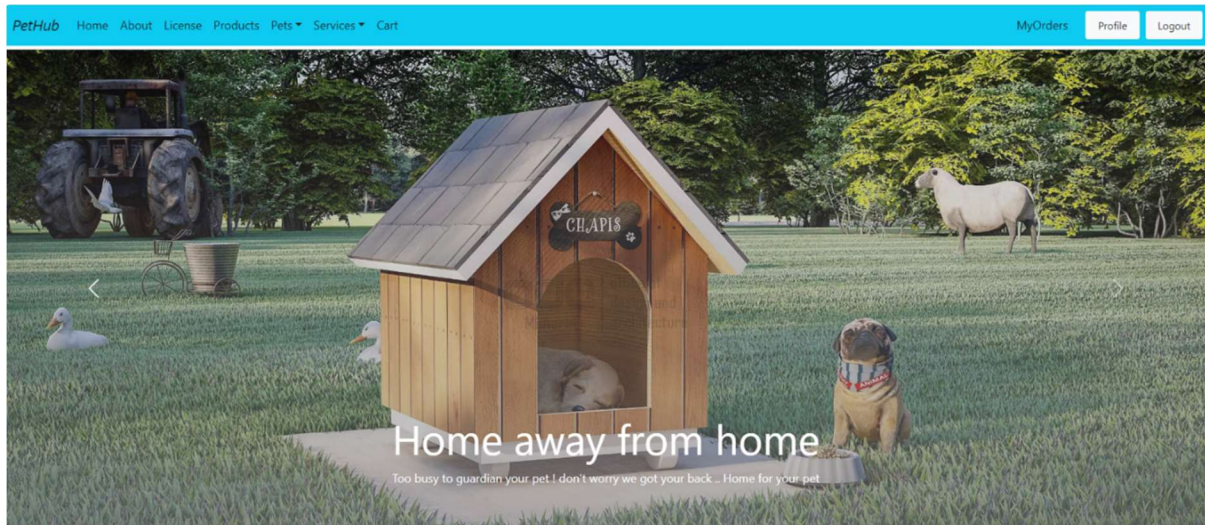
Test case ID	Test case	Test case I/P	Actual Result	Expected Result	Test cases criteria(P/F)
001	Logout	User exit	Session exit	Logout successfully	P

### GUI Testing

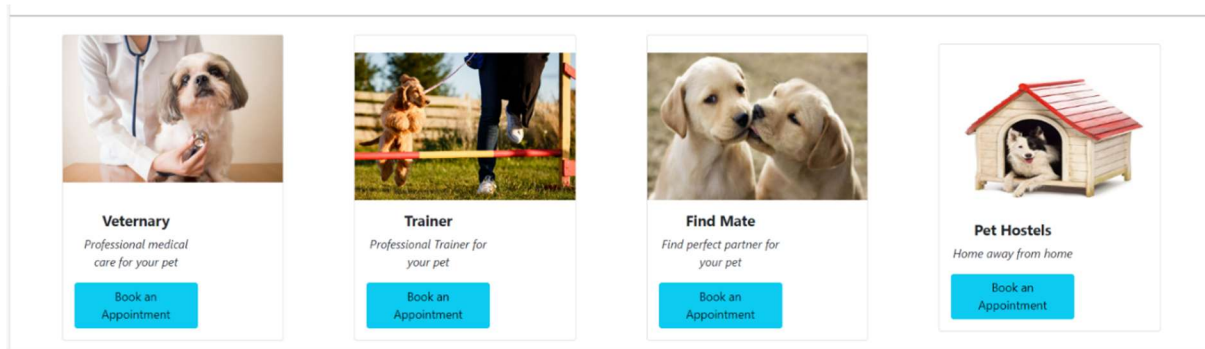
Test case	Login Screen-Sign up
-----------	----------------------

Test Case	Login Screen-Sign up
Objective	Click on sign up button then check all required/ mandatory fields withleaving all fields blank
Expected Result	All required/ mandatory fields should display with symbol “*”.Instruction line “* field(s) are mandatory” should be displayed
Test case	Create a Password >>Text BoxConfirm Password >>Text Box
Objective	Check the validation message for Password and Confirm Password field
Expected Result	Correct validation message should be displayed accordingly or “Passwordand confirm password should be same” in place of “Password mismatch”.

## 8. Screenshots




Home Page-1



Home Page-2

Pethub
Home
About
License
Products
Pets
Services
Signup
Login



## Register User

### Registration form

\*First Name:

First Name

\*Middle Name:

Middle Name

\*Last Name:

Last name

\*Email id:

email id

\*Password:

password

\*Mobile:

Mobile

\*Address:

Address

\*Role :

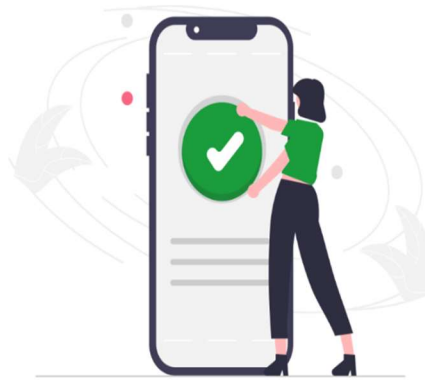
☐ Provider
☐ Customer

Save

[Click here](#) to login

## Sign-Up

Pethub
Home
About
License
Products
Pets
Services
Signup
Login



### Login

\*Email id:

email id

\*Password:

password

\*Role :

☐ Admin
☐ Customer
☐ Provider

Login

[Forgot Password](#)

[Click here](#) to Register

## Sign-In

## Hostel List



dogHouse

Rent: Rs.500/-

[Book an Appointment](#)



Royals Pets

Rent: Rs.450/-

[Book an Appointment](#)



Eir Dog Hostel and Kennel

Rent: Rs.630/-

[Book an Appointment](#)

## Hostel List

## vaterinary List



Veterinary clinic

DoctorName: Dr.Avantika

Address: pune ,Shivajinagar

Opentime: 10:00

Closetime: 04:00

ContactNo: 9123345465

[Book an](#)



Prani's Veterinary clinic

DoctorName: Dr Prateek

Address: pune ,Shivajinagar

Opentime: 10:30

Closetime: 04:30

ContactNo: 98341 85300

[Book an](#)



Vet Care Pet Clinic

DoctorName: Dr. Amit Apte

Address: pune

Opentime: 10:00

Closetime: 17:00

ContactNo: 2122003331

[Book an](#)

## Veterinary List

### Trainers

#### tejaswini Dhumal

Fees: Rs.860/-

Experience: 5YEAR

Email: dhumal@gmail.com

Contact: 444666677

Address: pune

Book an  
Appointment

#### sharad garkal

Fees: Rs.900/-

Experience: 10YEAR

Email: sharad@gmail.com

Contact: 444666677

Address: pune

Book an  
Appointment

#### sherya patil

Fees: Rs.1000/-

Experience: 6YEAR

Email: sherya@gmail.com

Contact: 444996677

Address: pune

Book an  
Appointment

## Trainers List

PetHub Home About License Products Pets Services Product Cart FeedBack App FeedBack MyOrders Profile Logout

### Add Pet

\*Name:

Name

\*Pet Type:

Please select an option

\*Breed:

Please Select Pet Type First

\*Gender:

Please select Gender

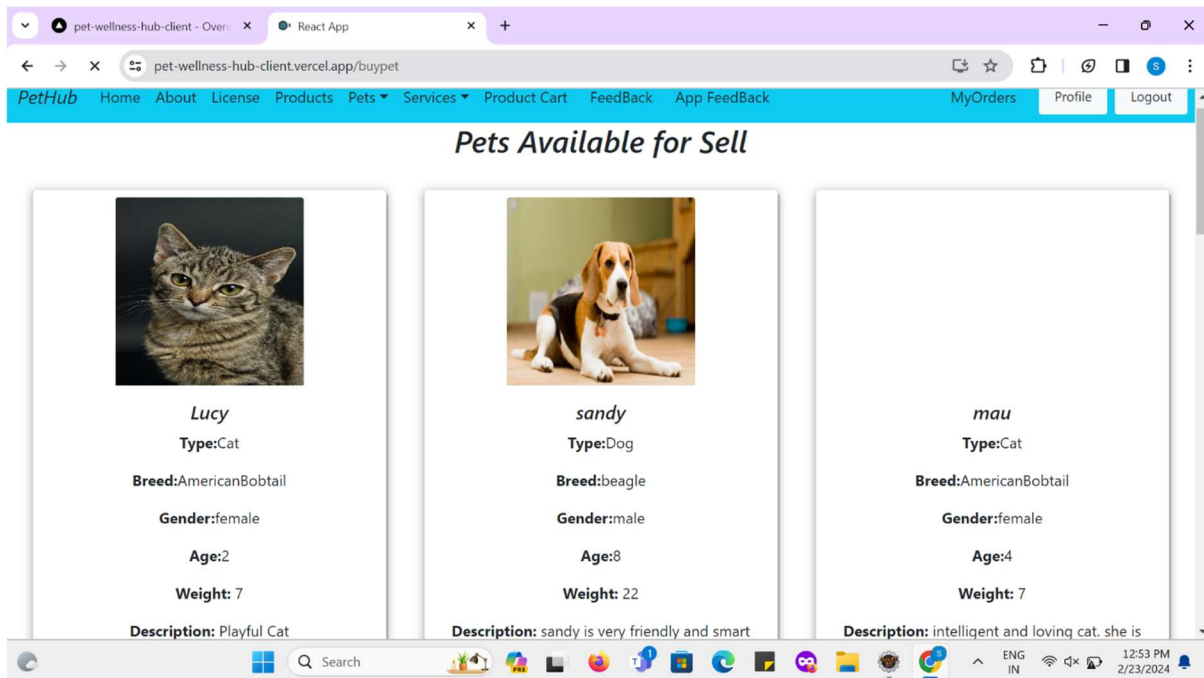
\*Age:

age

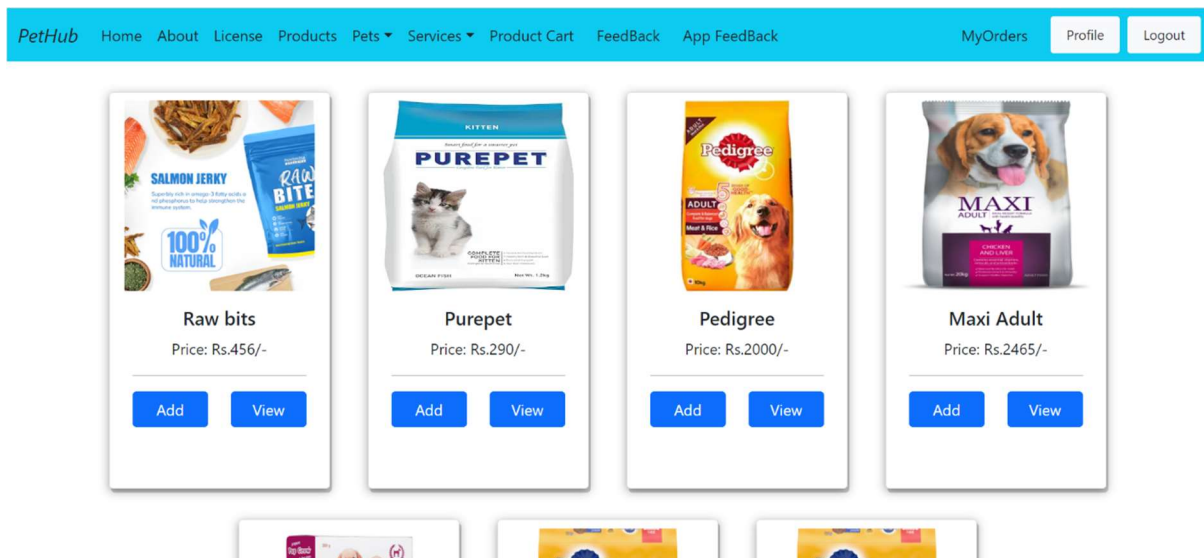
\*Weight:

weight

### Add Pet




## Pets Available For Sell



## Products Available



### Shopping Cart

	Purepet	x 1	Price:290	Delete
---	---------	-----	-----------	--------



### Shopping Cart

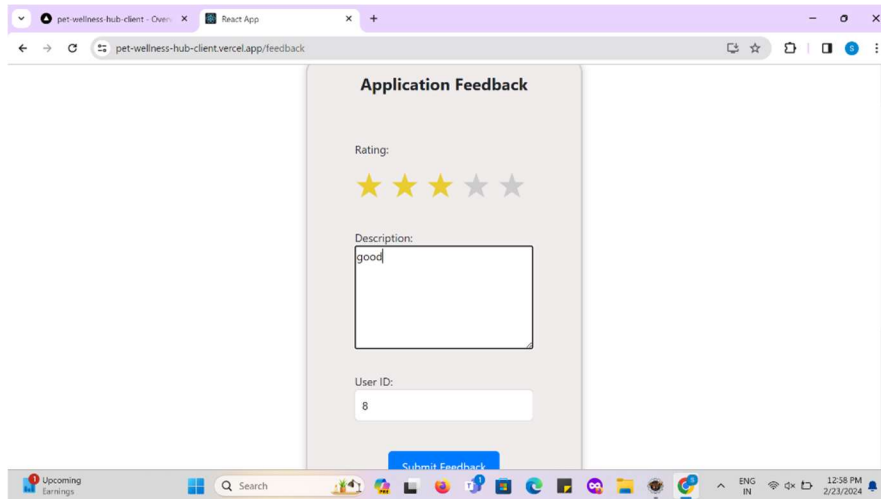


#### Here is why I feel it's important to register your pet.

It is a mandatory directive by Pune Municipal Corporation, a notice will be issued to pet parents if they refuse to adhere to the order. Residential association bodies and local authorities can solicit registration proof for the safety of the residents. A pet registration document could be to your advantage in case of incidences or circumstances related to pets that require local body involvement. Pet registration will help minimise the illegal animal breeding industry. A Pet

### Dog License Information





## Application Feedback

PetHub			
Home	About	License	Products
Pets	Services	Product Cart	FeedBack
App FeedBack	MyOrders	Profile	Logout
FirstName	LastName	Description	Rating
tukaram	khedkar	good	2 Star
tukaram	khedkar		4 Star
sona	Khedkar	very nice application	2 Star
sona	Khedkar	good application for pets	3 Star

Customers FeedBack

**Shopping**  
Register  
Login  
View Cart

**Quick Links**  
About Us

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## Customer Feedback

## 9. References

- [1] YouTube ref - <https://youtu.be/hXXLvYnu7eg?si=oeAY9r7gFR34X84y>
- [2] Need of the project ref - <https://www.behance.net/search/projects?search=pet+care>
- [3] ER Diagram Tutorial: <https://www.lucidchart.com/pages/examples/er-diagram-tool>
- [4] Pet Wellness Hub: <https://www.scribd.com/doc/50176808/Petcare>