Pet Management System

Table of contents

01

About us

You can describe the topic of the section here

02

Market analysis

You can describe the topic of the section here

03

Goals & strategy

You can describe the topic of the section here

04

Content plan

You can describe the topic of the section here

05

Budget

You can describe the topic of the section here

06

Kpi overview

You can describe the topic of the section here

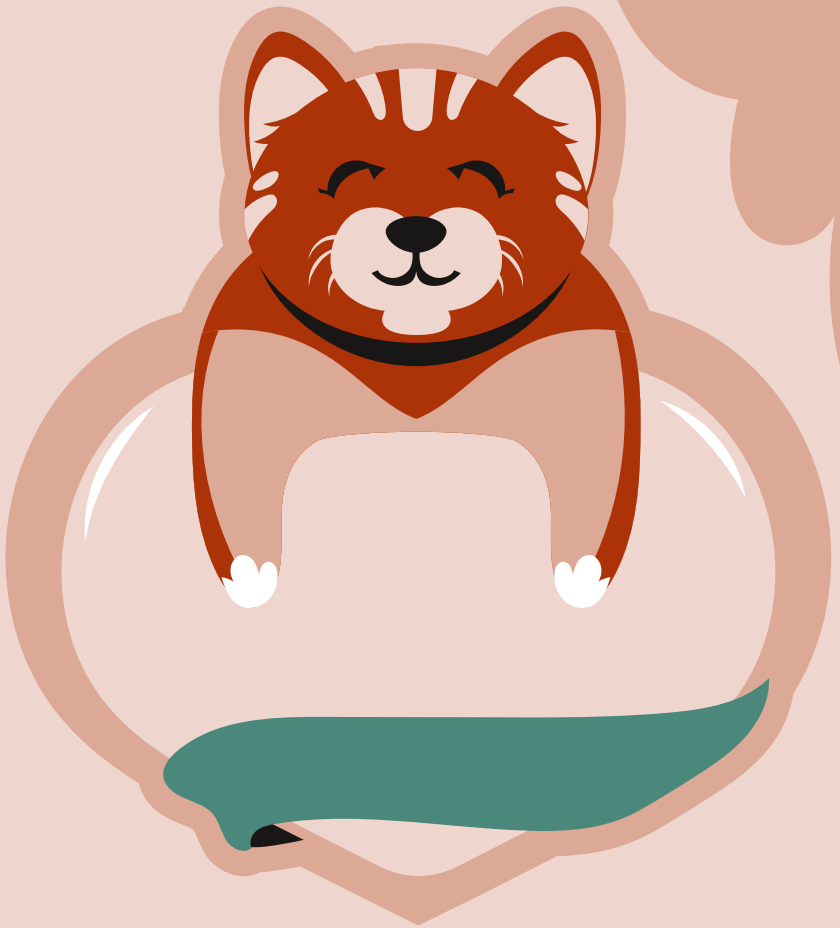
About us

01

Tasnim Aktar Rika
2031169
2031169@iub.edu.bd
Monour Hosan Saif
1931159
1931159@iub.edu.bd

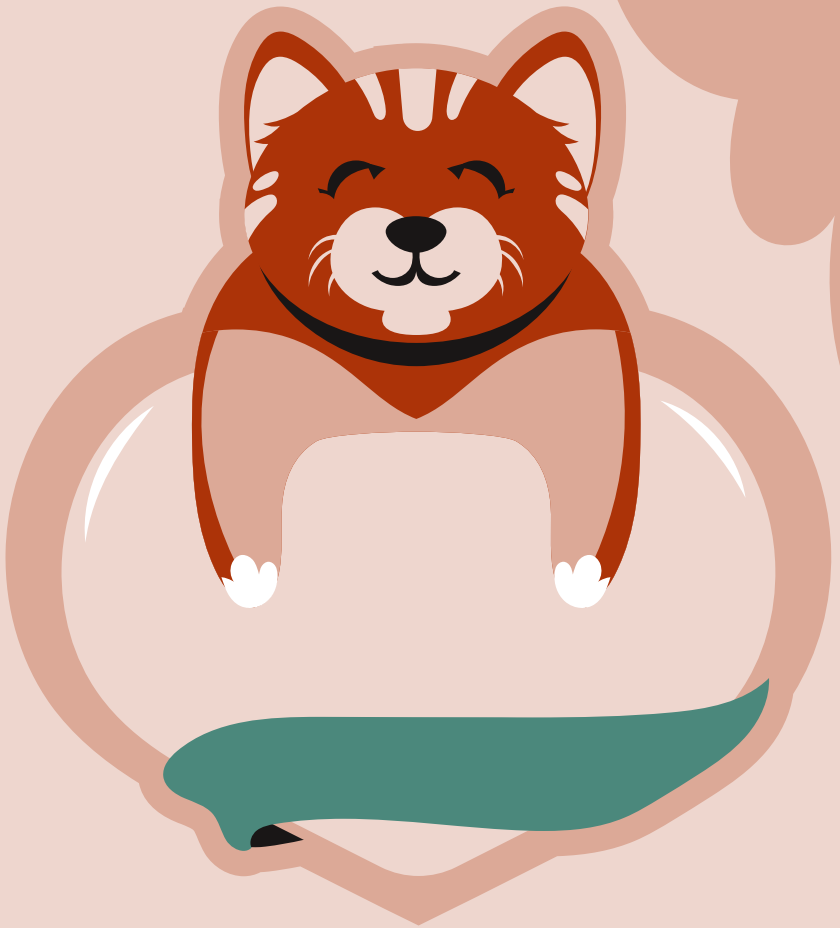
Introduction

The Pet Management System is an integrated platform that streamlines pet healthcare, shopping, grooming, pharmacy, and transportation services. It enhances convenience for pet owners and improves operational efficiency for service providers. The system introduces innovative features like online pharmacy orders and pet transportation, setting a new standard in digital pet care management.



Overview

- ★ Pet Management System: unified platform for vaccination, shop, pharmacy, grooming, transport.
- ★ Solves fragmented services and manual processes
- ★ Improves care, convenience, and operational efficiency



Theoretical Framework

Framework	Gap analysis of pet care services
Research Question	How can we unify pet services for better care?
Problem	Lack of integration, missed appointments, no real-time tracking

Proposed Solution

Integrated Platform

Automated Reminders

Mobile App

Real-Time Analytics Dashboard

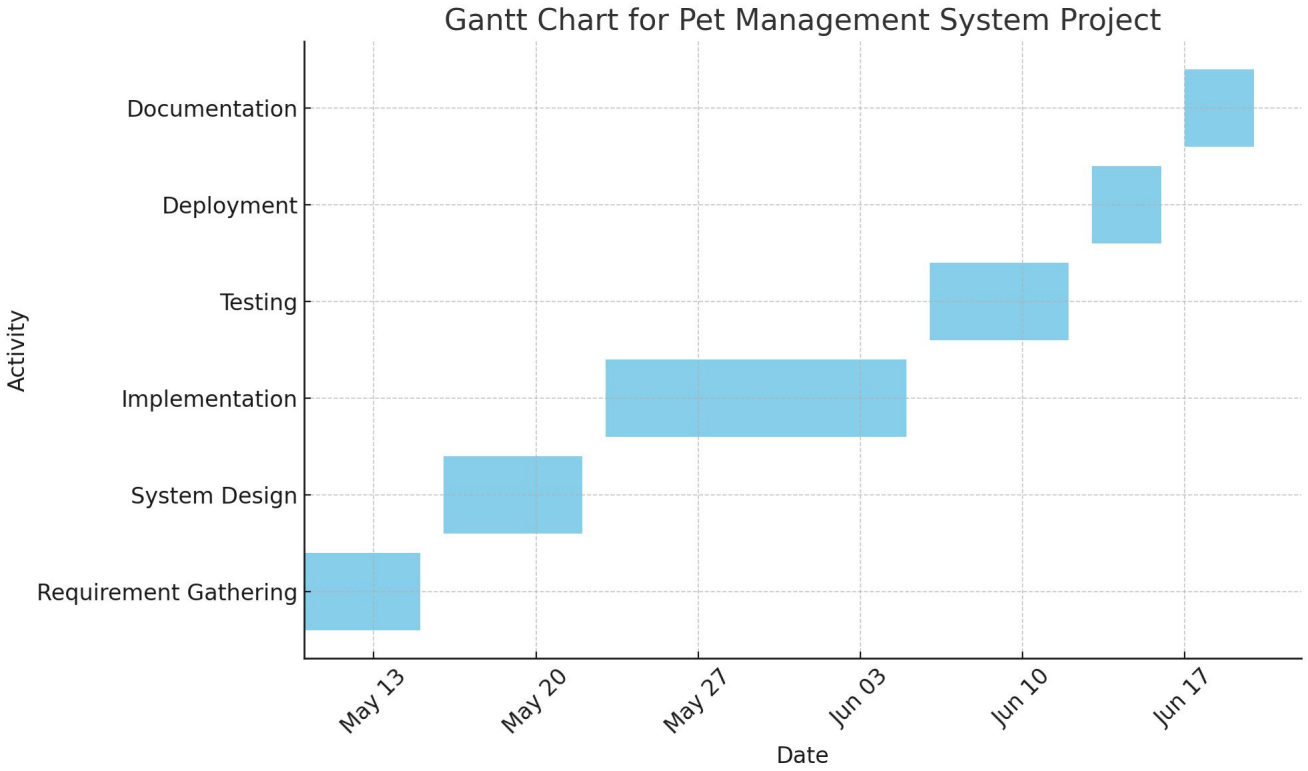
Secure Digital Health Records

Multi-User and Admin Support

Project Management Planning

Resources	Economic feasibility	Premium
QA	expenses	WBS, activity list, Gantt chart, network diagram
DevOps	benefits	
doc team	NPV	
	ROI	

Gantt Chart


Gantt Chart for Pet Management System Project
Activity
Documentation
Deployment
Testing
Implementation
System Design
Requirement Gathering
May 13
May 20
May 27
Jun 03
Jun 10
Jun 17
Date

Market segmentation

25%

10%

25%

40%

Current Market Problem

Existing platforms lack integration across pet healthcare, shopping, grooming, and transportation.

Identified gaps

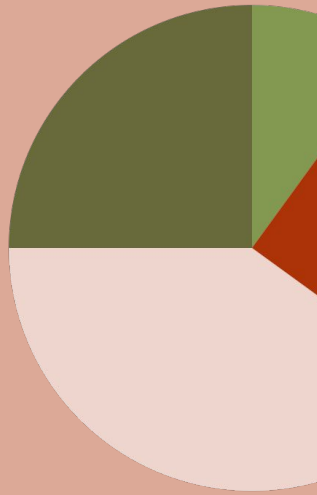
There's no unified system offering automated pet care services and cross-service coordination.

User Needs

Pet owners and service providers need a single platform for managing all pet-related tasks.

Resell-time analytics demand

Users require real-time analytics for health tracking, service optimization, and decision-making.



System Design

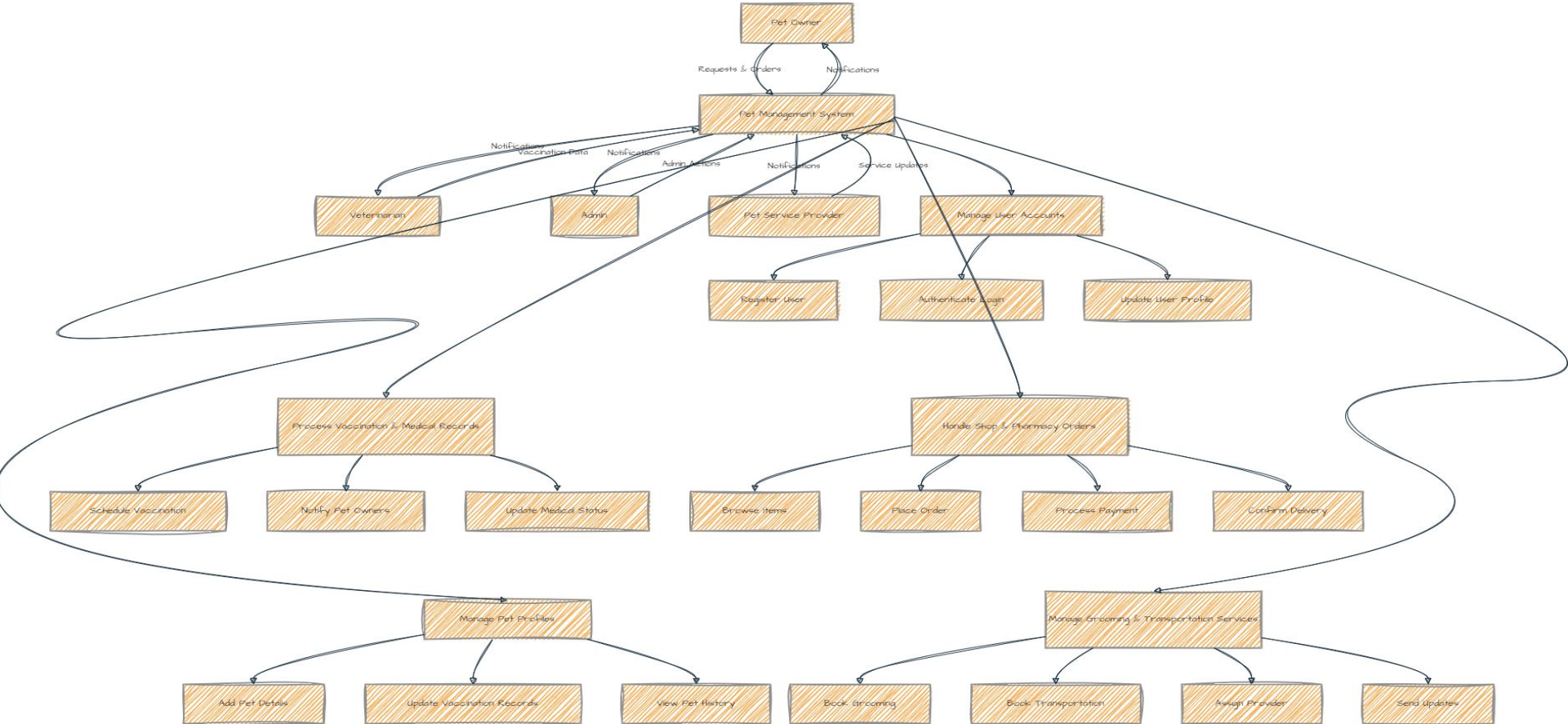
Functional

vaccine tracking, e-commerce, appointments, transport

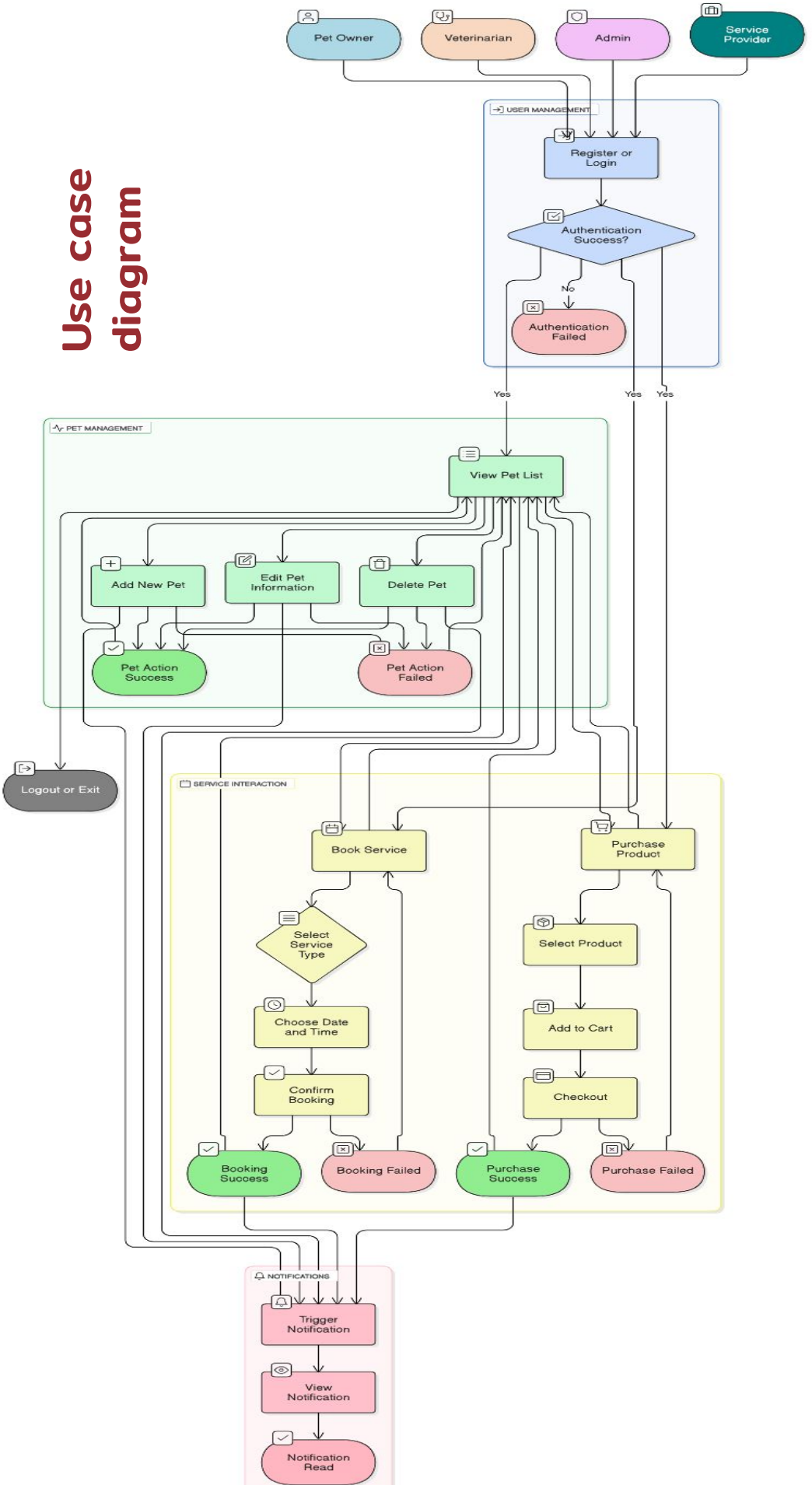
Non-functional

security, usability, scalability

DFD diagram


Pet Owner
Requests & Orders
Notifications
Pet Management System
Notifications
Vaccination Data
Notifications
Admin Actions
Notifications
Service Updates
Veterinarian
Admin
Pet Service Provider
Manage User Accounts
Register User
Authenticate Login
Update User Profile
Process Vaccination & Medical Records
Handle Shop & Pharmacy Orders
Schedule Vaccination
Notify Pet Owners
Update Medical Status
Browse Items
Place Order
Process Payment
Confirm Delivery
Manage Pet Profiles
Manage Grooming & Transportation Services
Add Pet Details
Update Vaccination Records
View Pet History
Book Grooming
Book Transportation
Assign Provider
Send Updates

Use case diagram



Result Analysis

RQ vs Features Mapping: Complete coverage of research needs

Possible vs Paper Mapping: Matches latest research and solutions

Possible vs Existing Features: Adds pharmacy, transport, admin tools

RQ vs Features table

Research Question	Mapped Features
RQ1: How can pet healthcare management be improved?	Vaccination scheduling, pet profile, notifications
RQ2: How to streamline pet service bookings?	Grooming booking, transportation booking
RQ3: How to simplify pet product access?	Pet shop, pharmacy ordering
RQ4: How to engage and retain users?	Notifications, review/rating system, user profile
RQ5: How to ensure admin control?	Admin management, reports

Possible Features vs Existing Features

Possible Feature	Existing Systems (Yes/No)	Our System (Yes/No)
Vaccination tracking	Yes	Yes
Online shop	Yes	Yes
Pharmacy ordering	No	Yes
Grooming booking	No	Yes
Transportation booking	No	Yes
Notifications	Yes	Yes
Admin control	Yes	Yes
Review system	No	Yes

Conclusion

Delivered an integrated, user-friendly pet care platform

Improved convenience, efficiency, and health tracking

Future work: AI health, mobile app, telemedicine, blockchain