



FUNCTIONAL BUSINESS REQUIREMENTS

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1.0 INTRODUCTION

Purpose

The purpose of the Veterinary Clinic System is to revolutionize the management and operations of veterinary practices by providing a comprehensive digital solution. This system aims to streamline pet registration, appointment scheduling, and patient record management, allowing veterinarians and staff to focus more on animal care and less on administrative tasks. It enables efficient tracking of visit details, medications, and procedures, ensuring that each pet receives personalized and consistent care across multiple visits. The billing module simplifies financial transactions, making it easier for both the clinic and pet owners to manage payments and insurance claims. By centralizing all these functions, the Veterinary Clinic System enhances communication between staff members, improves the accuracy of medical records, and ultimately contributes to better health outcomes for animal patients. Additionally, the system's flexibility in adding, removing, and updating information across various modules ensures that it can adapt to the evolving needs of the veterinary practice, supporting growth and improvements in service quality over time.

2.0 SCOPE OF THE PROJECT

The scope of the Veterinary Clinic System project encompasses the following key areas:

User / Client Side

- Customer's Details:**

- Allows customers to create and manage their profiles, including personal information, contact details, and preferences.

- Pet Registration Module:**

- Add, update, and remove pet details
 - Store comprehensive information about each animal patient

- **Appointment Scheduling System:**
 - Create and set an appointment for each pet.
- **Visit Details Management:**
 - Record and access information about each veterinary visit
- **Medication and Procedure Tracking:**
 - Log prescribed medications and performed procedures
 - Monitor treatment plans and follow-ups
- **Patient Records Management:**
 - Maintain detailed, updateable records for each animal patient
 - Ensure easy access to medical histories for veterinarians
- **Billing Module:**
 - Process payments or billings
 - Implement robust security measures to protect sensitive pet and owner information
 - Ensure compliance with relevant data protection regulations

Veterinarian / Admin's Side

1. Appointments Management

- View all pending appointment requests from clients in a list or in a calendar view.
- Approve or cancel appointment requests.
- Provide Reasons for cancellations.

- Once an appointment is approved or canceled, the system automatically updates its status.
- Dashboard for appointments(for that day) total appointments and total canceled appointments(Optional)

2. Medications and Procedures Management

- Create and Save prescriptions and procedures for individual pets.
- Maintain a log for past and current medications and procedures for each pet.
- Edit or delete prescriptions and procedures for pets.

3. Billings and Payment Management

- Generate an invoice for every completed appointment
- Maintain a record or history of payments linked to appointments for clients and the clinic.

4. Billings and Payment Management

3.0 FUNCTIONAL REQUIREMENTS AND USE CASE

3.1 Usability Requirements

Veterinary Clinic System aims to enhance user satisfaction by ensuring that the system is easy to learn, use, and navigate. These requirements are crucial because a system that is difficult to use can lead to frustration, reduced productivity, and lower user adoption rates.

Functions	Description

Customer's Application	Clients can create accounts, update their personal information, type of payment, and manage their pets' profiles.
Registration of Pet Details	Clients can add, update, or remove their pet's details. This includes entering information such as species, breed, weight, and any pre-existing medical conditions.
Appointment Scheduling	Manage appointments, allow users to schedule, view, and modify bookings.
Medication & Procedure Tracking	Logs and monitors medications or procedures. Giving medication to customers and a step-by-step demonstration of procedures.
Patient's Records Management	Clinic Staff can easily access and update the Pet's records, track their health concerns, medical history, treatment history and Owner information.
Billing	Clients can see their outstanding bills, when the bills are made and paid, and the available means of payment.
Veterinarian (Admin)	Veterinarians are considered admins who can monitor, manage, and update patient records, and track pets' health concerns and medical history. They can approve or deny

	appointment requests, log medications or procedures. Additionally, veterinarians manage billing information, including outstanding bills, payment statuses, and available payment methods.
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3.2 Data Requirements

These requirements encompass various aspects, including the identification of data entities, attributes, and relationships, as well as the validation rules and constraints that maintain data integrity and quality. They define how data will be collected, stored, processed, and retrieved, ensuring that the system meets the functional and performance needs of its users.

Functions	Inputs	Outputs
User		
Customer's Application	Customer ID, Username, email address, password, and other personal details (e.g., contact number, address).	<ul style="list-style-type: none"> Confirmation of successful registration or login, and access to the user dashboard. Error messages in case of incorrect credentials or registration issues.

Registration of Pet Details	<ul style="list-style-type: none"> • Pet ID, Pet name, species, breed, age, weight, gender • Medical history, allergies, pre-existing conditions • Pet photo (optional) 	Compiled pet information
Appointment Scheduling	<ul style="list-style-type: none"> • Customer ID or Pet ID • Type of Service needed (e.g., check-up or vaccination) 	<p>Confirmation of appointment</p> <p>Calendar view with scheduled appointment</p>
Medication & Procedure Tracking	Pet ID, Medication Name, Procedure Name, Dosage Details, Date & Time, Veterinarian Details.	Medication or Procedure record, Alerts & Reminders, Prescription Summary
Patient's Records Management	Pet ID, Pet name, species, breed, age, weight, gender, Medical History, allergies, pre-existing conditions, treatment/vaccination records, owner information.	Updated Pet information, Confirmation of record updates, Access to complete medical history of the Patient.
Billing	Customer Name, Contact Information, Payment Details, Payment method.	Confirmation of Payment, Updated Billing Statements,

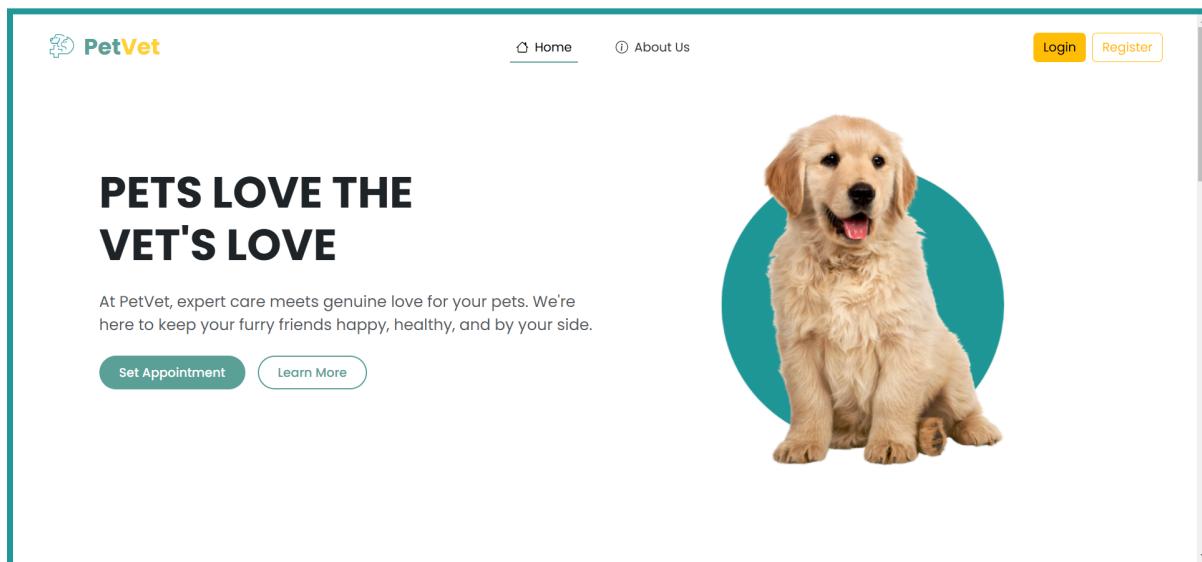
		Error message if payment fails.
Veterinarian (Admin)		
Veterinarians Registration	<p>Veterinarian Details:</p> <ul style="list-style-type: none"> • Vet ID • Veterinarian First Name and Last Name • Specialization • Contact Information (Phone Number, Email) 	<ul style="list-style-type: none"> • Confirmation of successful registration or login, and access to the vet dashboard. • Error messages in case of incorrect credentials or registration issues.
Appointment Management	Confirmation of appointment updates (e.g., Scheduled, Completed, Cancelled)	Daily or weekly appointment schedules
Medical Records & Procedure Management	Updated or newly added medical records	Complete health history and treatment plans for pets
Billing Management	Updated billing statements	<ul style="list-style-type: none"> • Confirmation of payment processing • Error messages if payment fails

3.3 Interface Requirements

Interface requirements specify how components or systems will connect and communicate. These requirements ensure that the various parts of a system or between systems and users work together seamlessly, facilitating effective communication and functionality. They define the protocols, formats, and interactions necessary for successful integration and usability.

Here is the implemented user interface and its color theme:

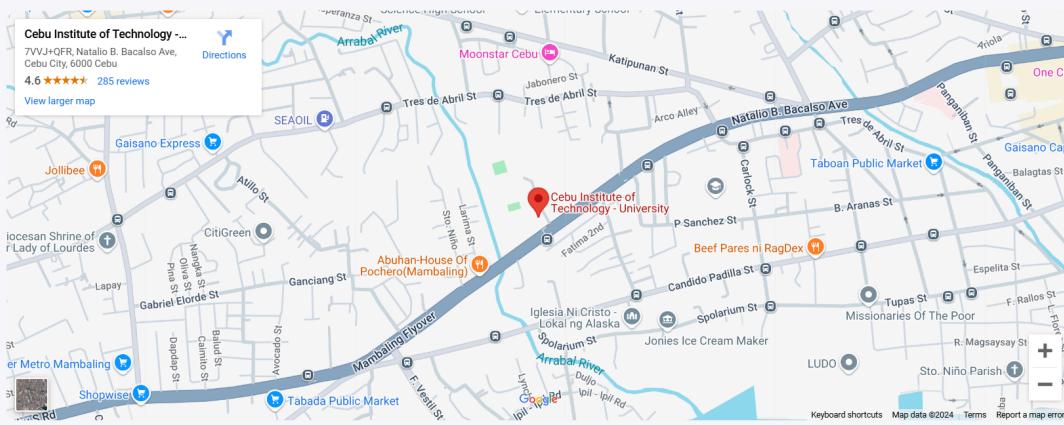
I. Landing Page:



A screenshot of the PetVet website's 'Services' page. The title 'Services' is centered at the top in a teal font. Below it are four service sections, each with an image and a title: 'Consultation' (two people talking), 'Pet Grooming' (a dog being groomed), 'Pet Training' (a person training a dog), and 'Pet Medications' (a dog being examined by a vet). Each section also has a detailed description below the title.

How to find us?

Visit us at our clinic located at Cebu Institute of Technology - University



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II. About Us:

 PetVet

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Our Story

Caring for Pets with Love and Expertise Since 2020



Our Mission

To provide exceptional veterinary care with compassion and understanding, ensuring every pet lives their healthiest, happiest life.



Our Vision

To be the most trusted partner in pet healthcare, known for our expertise, innovation, and dedication to both pets and their families.



Our Values

Compassion, Excellence, Integrity, and Innovation guide everything we do in caring for your beloved pets.

Meet Our Team

Dedicated professionals committed to your pet's health



Dr. Hannah Grace Sacamay
Chief Veterinarian

With over 15 years of experience, Dr. Hannah Grace Sacamay specializes in preventive care and surgery.



Dr. Jared Karl Omen
Senior Veterinarian

Dr. Jared Karl Omen is our exotic pet specialist with expertise in avian and reptile medicine.



Dr. Julio Miguel Dumaguing
Veterinary Specialist

Specializing in internal medicine and emergency care with 8 years of experience.

Our Facilities

State-of-the-art equipment and comfortable spaces for your pets



Modern Examination Rooms
Equipped with the latest diagnostic tools and designed for comfort.



Advanced Surgery Suite
State-of-the-art surgical equipment for various procedures.

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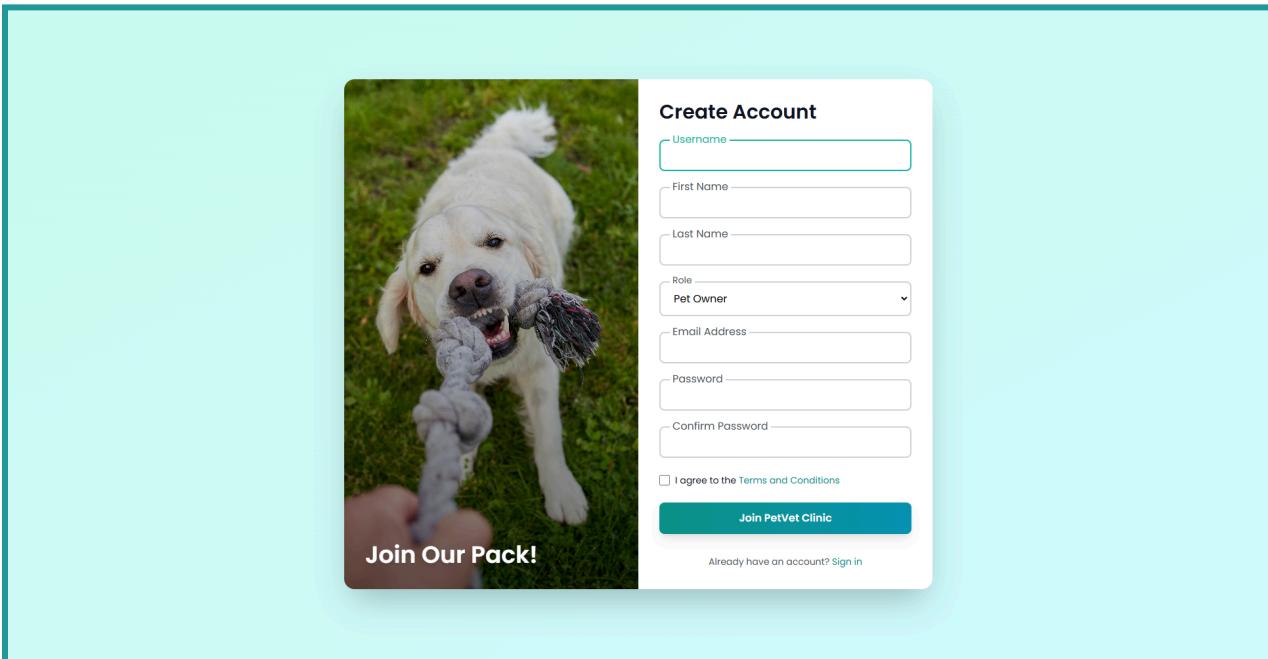
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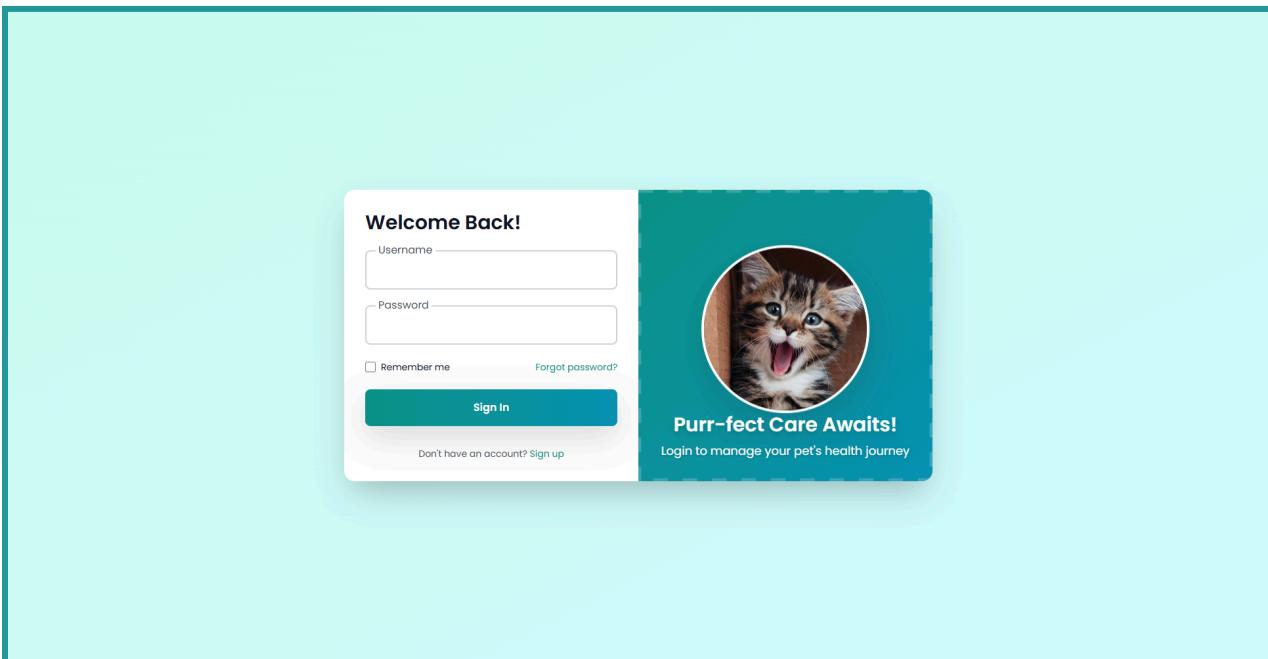
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III. User's Side:

1. Sign up:



2. Log in:



3. Appointment:

The screenshot shows the 'My Appointments' section of the PetVet website. At the top, there are tabs for Home, Appointments (which is underlined), My Pets, and My Bills. A user profile icon is in the top right. Below the tabs, a green button says 'New Appointment'. The main area has two sections: 'Upcoming Appointments' and 'Past Appointments', each with a table.

Upcoming Appointments

Date & Time	Pet	Owner	Service	Veterinarian	Status	Actions
Dec 10, 2024 8:34 PM	Angel	Hannah Grace Sacamay	Dental Care	Dr. Karen Bautista	Approved	View
Dec 11, 2024 8:36 AM	Angel	Hannah Grace Sacamay	Emergency Care	Dr. Karen Bautista	Pending Approval	View Edit Cancel

Past Appointments

Date & Time	Pet	Owner	Service	Veterinarian	Status	Actions
Dec 08, 2024 12:03 AM	Angel	Hannah Grace Sacamay	Grooming	Dr. Karen Bautista	Completed	View

At the bottom of the page, there are links for About Us, Services, Support, and Social media, along with copyright and back-to-top information.

3.1. New Appointment:

The screenshot shows the 'Schedule New Appointment' form. At the top, there are tabs for Home, Appointments (underlined), My Pets, and My Bills. A user profile icon is in the top right. Below the tabs, a green button says 'Schedule New Appointment'.

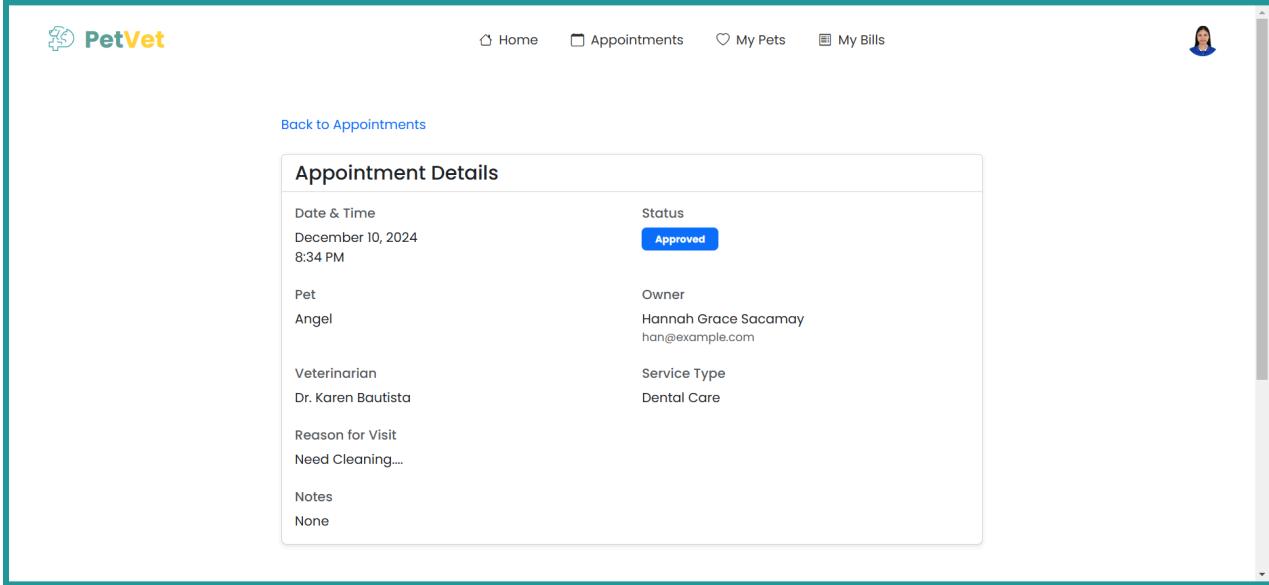
Schedule New Appointment

This form includes fields for Pet*, Veterinarian*, Service*, Date*, Time*, and Notes. Buttons for 'Schedule Appointment' and 'Cancel' are at the bottom.

At the bottom of the page, there are links for About Us, Services, Support, and Social media, along with copyright and back-to-top information.

3.2. View Appointment:

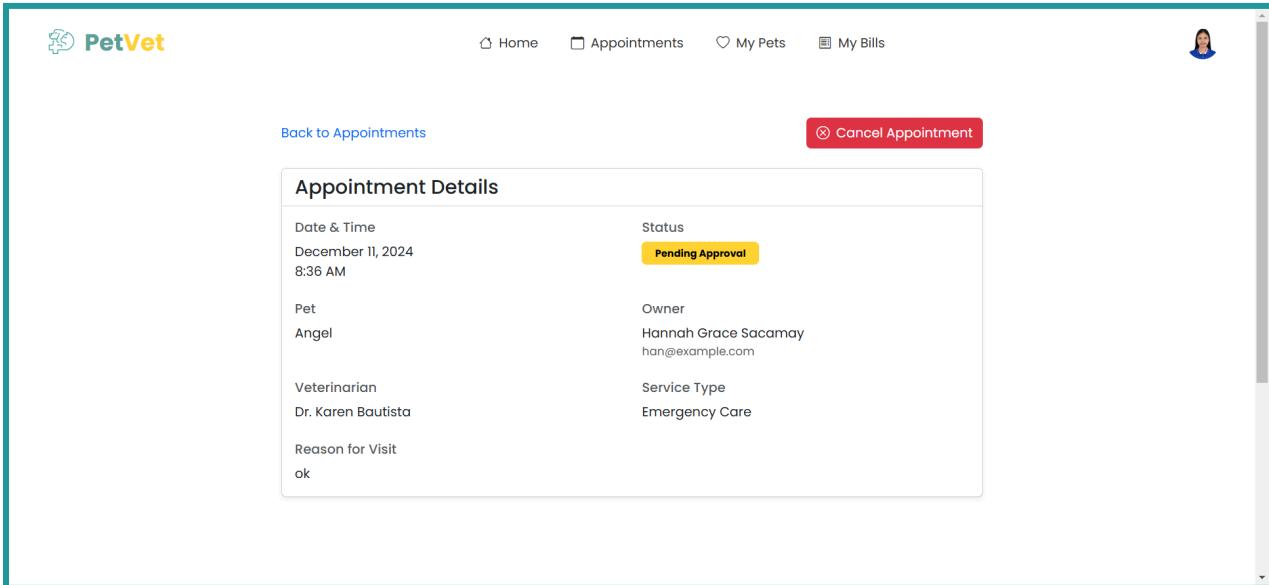
3.2.1. Approved:



The screenshot shows the PetVet application interface for viewing an appointment. At the top, there is a navigation bar with links for Home, Appointments, My Pets, and My Bills. A user profile icon is also present. Below the navigation bar, a "Back to Appointments" link is visible. The main content area is titled "Appointment Details" and contains the following information:

Date & Time	Status
December 10, 2024 8:34 PM	Approved
Pet	Owner
Angel	Hannah Grace Sacamay han@example.com
Veterinarian	Service Type
Dr. Karen Bautista	Dental Care
Reason for Visit	Need Cleaning....
Notes	None

3.2.2. Pending:



The screenshot shows the PetVet application interface for viewing an appointment that is pending approval. The layout is similar to the approved appointment screen, with a navigation bar at the top and a "Back to Appointments" link. A red button labeled "Cancel Appointment" is visible. The main content area is titled "Appointment Details" and contains the following information:

Date & Time	Status
December 11, 2024 8:36 AM	Pending Approval
Pet	Owner
Angel	Hannah Grace Sacamay han@example.com
Veterinarian	Service Type
Dr. Karen Bautista	Emergency Care
Reason for Visit	ok

3.2.3. Completed:

The screenshot shows the PetVet application's "Appointments" section. At the top, there are navigation links: Home, Appointments, My Pets, and My Bills. A user profile picture is visible in the top right corner. Below the navigation, a link "Back to Appointments" is present. The main content area is titled "Appointment Details". Inside, the following information is displayed:

Date & Time	Status
December 08, 2024 12:03 AM	Completed
Pet	Owner
Angel	Hannah Grace Sacamay han@example.com
Veterinarian	Service Type
Dr. Karen Bautista	Grooming
Reason for Visit	
Summer Cut	
Notes	
None	

4. My Pet:

The screenshot shows the PetVet application's "My Pets" section. At the top, there are navigation links: Home, Appointments, My Pets (which is underlined), and My Bills. A user profile picture is visible in the top right corner. Below the navigation, the title "Hannah Grace's Pets" is shown. A yellow button "Add Pet" is located on the right. A search bar with placeholder text "Search for a pet" is positioned above a list of categories: All Pets, Dog, Cat, Bird, Fish, Hamster, Rabbit, Guinea Pig, Reptile, and Other. Below the categories, a card displays a small image of a white Shitzu dog named "Angel". At the bottom of the page, there is a footer with sections for About Us, Services, Support, and Social media links.

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4.1. Pet Profile:

 **PetVet**

[Home](#) [Appointments](#) [My Pets](#) [My Bills](#) 



Angel ♀
Dog - Shitzu
ID PETID1 · Age: 3 years, 7 months y.o.
Sex: Female
Weight: 6.00 kg

[Add Appointment](#) [Edit Pet](#) [Return to List](#)

Medical Card

Date	Diagnosis	Doctor	Next Visit
Dec 07, 2024	ok	Dr. Karen Bautista	N/A
Dec 07, 2024	gh	Dr. Karen Bautista	N/A

Upcoming Appointments

Date	Time	Doctor	Status
Dec 10, 2024	8:34 PM	Dr. Karen Bautista	Approved

Completed Appointments

Grooming	Completed
----------	-----------

Date: Dec 08, 2024 at 12:03 AM
Dr. Karen Bautista

Cancelled/Rejected Appointments

Vaccination	Cancelled
-------------	-----------

Date: Dec 10, 2024 at 9:23 PM
Dr. Karen Bautista

Completed Treatments

Medication	Completed
------------	-----------

Medication: fd
Completed: Dec 07, 2024

Medication	Completed
------------	-----------

Medication: ok
Completed: Dec 07, 2024

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4.2. Update Pet Profile:

 PetVet

Home Appointments My Pets My Bills 



Update Angel's Profile

Pet name: Angel

Breed: Shitzu

Species: Dog

Sex: Female

Weight: 6.00

Birthday: 02/05/2021

Pet description: Healthy

Image url: Choose File No file chosen

Update Pet Cancel

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5. My Bill:

The screenshot shows the PetVet website's 'My Bills' page. At the top, there is a navigation bar with links for Home, Appointments, My Pets, and My Bills. A user profile icon is also present. Below the navigation is a table titled 'Billing Records' with two rows of data. The columns are labeled PET, INVOICE, AMOUNT, STATUS, DUE DATE, and Actions. The first row shows 'Angel' with invoice INV-2-PETIDI and amount P\$565.00, marked as 'PAID' with a due date of Dec 08, 2024. The second row shows 'Angel' with invoice INV-1-PETIDI and amount P\$600.00, marked as 'PAID' with a due date of Dec 08, 2024. Each row has a 'View Details' button. At the bottom of the page, there are four footer sections: 'About Us' (Mission, Team, Newsletter), 'Services' (Consultation, Pet Grooming, Pet Medication), 'Support' (Contact, Help Center, Feedback), and 'Social' (Facebook, Instagram, LinkedIn). The footer also includes copyright information ('© 2024 PetVet. All Rights Reserved') and a 'Back to Top' link.

5.1. Billing View Details:

The screenshot shows the PetVet website's 'Bill Details' view for invoice INV-2-PETIDI. At the top, there is a navigation bar with links for Home, Appointments, My Pets, and My Bills. A user profile icon is also present. Below the navigation is a table titled 'Bill Details' with two main sections: 'Invoice Information' and 'Pet & Medical Record Details'. The 'Invoice Information' section shows the Invoice Number (INV-2-PETIDI), Invoice Date (Dec 07, 2024), Total Amount (P\$665.00), and Status (PAID). The 'Pet & Medical Record Details' section shows the Pet Name (Angel), Species (Dog), Medical Record (2), and Veterinarian (Dr. Karen Bautista). At the bottom of the page, there are four footer sections: 'About Us' (Mission, Team, Newsletter), 'Services' (Consultation, Pet Grooming, Pet Medication), 'Support' (Contact, Help Center, Feedback), and 'Social' (Facebook, Instagram, LinkedIn). The footer also includes copyright information ('© 2024 PetVet. All Rights Reserved') and a 'Back to Top' link.

6. User's Profile:

The screenshot shows the PetVet user profile interface. At the top, there is a navigation bar with links for Home, Appointments, My Pets, and My Bills. A user profile picture of a woman is displayed, along with her name, Hannah Grace Sacamay, and title, Pet Owner. Below this, contact information is listed: han@example.com, 09432516882, and Guadalupe. A "Edit Profile" button is present. To the right, there are two sections: "Payment Information" (Preferred Payment Method: Cash) and "Quick Stats" (1 Registered Pets, 4 Total Appointments, 0 Pending Bills). At the bottom, there are four columns: About Us (Mission, Team, Newsletter), Services (Consultation, Pet Grooming, Pet Medication), Support (Contact, Help Center, Feedback), and Social (Facebook, Instagram, LinkedIn). The footer contains copyright information (© 2024 PetVet. All Rights Reserved) and a "Back to Top" link.

6.1. Update Profile:

The screenshot shows the PetVet edit profile page. The top navigation bar and user profile picture are identical to the previous screenshot. The main area is titled "Edit Profile". It includes a placeholder profile picture and a "Change Profile Picture" button. Below this, there are sections for "Personal Information" (First Name: Hannah Grace, Last Name: Sacamay), "Email" (han@example.com), "Address" (Guadalupe), and "Payment Information" (Preferred Payment Method: Cash). At the bottom of the form are "Cancel" and "Save Changes" buttons. The footer structure is identical to the previous screenshot, featuring "About Us", "Services", "Support", and "Social" sections, and a copyright notice at the bottom.

IV. Veterinarian's Side:

1. Dashboard:

Welcome, Dr. Karen Bautista

Today's Appointments
No appointments scheduled for today

Pending Appointments
Angel
Dec 11, 2024 at 8:36 AM [Update](#)

Recent Medical Records

Angel gh Dec 07, 2024
Angel ok Dec 07, 2024

Pending Bills
No pending bills

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2. Appointment Management:

Appointments

Date	Time	Pet	Owner	Service Type	Status	Actions
Dec 11, 2024	8:36 AM	Angel	Hannah Grace Sacamay	Emergency Care	Pending Approval	Update
Dec 10, 2024	8:34 PM	Angel	Hannah Grace Sacamay	Dental Care	Approved	Update
Dec 08, 2024	12:03 AM	Angel	Hannah Grace Sacamay	Grooming	Completed	Add Medical Record / Bill
Dec 10, 2024	9:23 PM	Angel	Hannah Grace Sacamay	Vaccination	Cancelled	

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2.1. Update Appointment:

The screenshot shows the 'Update Appointment' page of the PetVet application. At the top, there are navigation links: Dashboard, Appointments, Medical Records (which is the active tab), and Billing. A user profile icon is in the top right corner.

The main content area has a title 'Update Appointment' and a status indicator 'Pending Approval' in a yellow box. It is divided into three sections: 'Pet Information', 'Owner Information', and 'Appointment Details'. In 'Pet Information', the pet's name is Angel, species is Dog, and breed is Shitzu. In 'Owner Information', the owner's name is Hannah Grace Sacamay, contact number is not provided, and address is not provided. Under 'Appointment Details', the service type is Emergency Care, the date is December 11, 2024, and the time is 8:36 AM. Below these sections is an 'Update Status' form where the status is set to 'Pending Approval' and the notes field contains 'None'. At the bottom left is a 'Back' button, and at the bottom right is a blue 'Update Appointment' button.

At the bottom of the page, there are footer links for About Us, Services, Support, and Social media (Facebook, Instagram, LinkedIn). The About Us section includes links for Mission, Team, and Newsletter. The Services section includes links for Consultation, Pet Grooming, and Pet Medication. The Support section includes links for Contact, Help Center, and Feedback. The Social section includes links for Facebook, Instagram, and LinkedIn.

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3. Medical Records:

The screenshot shows the 'Pets with Medical Records' page of the PetVet application. At the top, there are navigation links: Dashboard, Appointments, Medical Records (active tab), and Billing. A user profile icon is in the top right corner.

The main content area displays a table titled 'Pets with Medical Records' with one row. The columns are Pet Name, Species, Breed, Owner, and Actions. The data in the table is: Pet Name: Angel, Species: Dog, Breed: Shitzu, Owner: Hannah Grace Sacamay, and Actions: a blue 'View Records' button.

At the bottom of the page, there are footer links for About Us, Services, Support, and Social media (Facebook, Instagram, LinkedIn). The About Us section includes links for Mission, Team, and Newsletter. The Services section includes links for Consultation, Pet Grooming, and Pet Medication. The Support section includes links for Contact, Help Center, and Feedback. The Social section includes links for Facebook, Instagram, and LinkedIn.

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3.1. View Medical Record:

The screenshot shows the PetVet software interface. At the top, there is a navigation bar with icons for Dashboard, Appointments, Medical Records (which is underlined), and Billing. On the right side of the header is a user profile icon. The main content area is titled "Medical Records for Angel". It contains two sections: "Pet Details" and "Medical Records".

Pet Details:

Name: Angel	Owner: Hannah Grace Sacamay
Species: Dog	
Breed: Shitzu	

Medical Records:

Date	Veterinarian	Diagnosis	Next Visit	Actions
Dec 07, 2024	Dr. Karen Bautista	gh	Not scheduled	
Dec 07, 2024	Dr. Karen Bautista	ok	Not scheduled	

3.2. Edit Medical Record:

The screenshot shows the PetVet software interface. At the top, there is a navigation bar with icons for Dashboard, Appointments, Medical Records (underlined), and Billing. On the right side of the header is a user profile icon. The main content area is titled "Edit Medical Record for Angel".

This is a form with several input fields:

- Diagnosis:** A text input field with a blue circular icon.
- Treatment Details:** A text input field with placeholder text "Describe the treatment provided" and a blue circular icon.
- Additional Notes:** A text input field with a blue circular icon.
- Next Visit Date:** A date input field with placeholder text "dd/mm/yyyy" and a calendar icon.

At the bottom of the form are two buttons: "Cancel" and "Save Changes".

4. Billing Management:



Dashboard Appointments Medical Records Billing



Billing Management

Existing Bills

Invoice #	Date	Pet	Owner	Amount	Due Date	Status	Actions
3	Dec 09, 2024	Angel	Hannah Grace Sacamay	\$800.00	Dec 09, 2024	PENDING	<button>Update</button>
2	Dec 07, 2024	Angel	Hannah Grace Sacamay	\$565.00	Dec 08, 2024	PAID	
1	Dec 07, 2024	Angel	Hannah Grace Sacamay	\$600.00	Dec 08, 2024	PAID	

4.1. Update Billing:

The screenshot shows the PetVet software interface. At the top, there is a navigation bar with icons for Dashboard, Appointments, Medical Records, Billing, and a user profile picture. Below the navigation bar is a teal header bar with the title "Update Bill". The main form consists of several input fields: "Pet Name" (Angel), "Owner" (Hannah Grace Sacamay), "Amount" (\$800.00), "Due Date" (Dec 09, 2024), "Status" (Pending), "Payment Method" (Select payment method), "Payment Date" (dd/mm/yyyy), and a "Notes" text area. At the bottom of the form are two buttons: "Update Bill" (in teal) and "Cancel".

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Mission Team Newsletter	Consultation Pet Grooming Pet Medication	Contact Help Center Feedback	Facebook Instagram LinkedIn

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3.4 Use Case Scenario Requirements

Use case scenarios are designed to illustrate the functional aspects of a system by depicting real-world interactions. They provide a narrative that describes how users will interact with the system to accomplish tasks, highlighting both typical and exceptional scenarios. Use cases help in understanding user needs, identifying system requirements, and designing user-centric solutions.

3.4.1 User (Client)

I. Client's Application:

1. **Account Creation:** A new client registers for an account on the Veterinary Clinic System, providing their personal information and contact details.
2. **Pet Registration:** A client adds a new pet to their account, providing details about the pet's breed, age, and medical history.
3. **Patient Record Access:** A client views their pet's medical records, including vaccination history, treatment plans, and appointment details.

II. Registration of Pet Details:

1. **New Pet Registration:** A client adds a new pet to their account, providing basic information such as name, breed, and age.
2. **Medical History Update:** A client can view their pet's medical history.

III. Appointment:

3. **Appointment Booking:** A client schedules an appointment for their pet, selecting a preferred date and time.
1. **Appointment Rescheduling:** A client reschedules an appointment due to a conflict.
2. **Appointment Cancellation:** A client cancels an appointment.
3. **View Visit Details:** A client can view the time and date of the visit.

IV. Medication or Procedure Tracking Through Pet Profile:

1. **Medication Prescription:** A veterinarian prescribes medication for a patient, and the details are recorded in the system.
2. **Procedure Scheduling:** Medical Records are scheduled for pets, and the details are made available for clients to view.

V. Billing:

1. **Bill Generation:** The system automatically generates a bill for a veterinary visit, including fees for services, medications, and procedures.
2. **Payment Processing:** A client pays using the online payment feature or credit and debit card..
3. **Payment History:** A client views their payment history of all their visits.

3.4.2 Veterinarian (Admin)

I. Appointment Management:

1. **Appointment Approval:** A veterinarian reviews and approves a client's appointment request based on availability and the type of service needed.
2. **Appointment Modification:** A veterinarian updates an appointment's details, such as the time, date, or assigned veterinarian, to accommodate changes.
3. **Appointment Cancellation:** A veterinarian cancels an appointment due to unforeseen circumstances and notifies the client through the system.
4. **Daily Schedule Review:** The veterinarian views a daily schedule of all upcoming appointments to plan their day effectively.

II. Medication or Procedure Tracking:

1. **Medication Prescription:** The veterinarian prescribes medications for a patient during a visit, and the details (e.g., dosage, frequency) are recorded in the system.
2. **Procedure Logging:** The veterinarian records details of a completed procedure, including steps taken, duration, and outcome.
3. **Procedure Scheduling:** The veterinarian schedules a procedure for a pet, providing the necessary preparation steps for the client.

III. Patient Records Management:

1. **Medical Record Access:** The veterinarian accesses a pet's medical records to review its medical history, including past treatments, allergies, and pre-existing conditions.

2. **Record Update:** The veterinarian updates the medical records after providing a diagnosis, treatment, or performing a procedure.
3. **Record Sharing:** The veterinarian shares a pet's medical records with a specialist for advanced diagnosis or treatment recommendations.
4. **Health Monitoring:** The veterinarian analyzes records to track a pet's ongoing health concerns or monitor treatment progress.

IV. Billing Management

- **Service Fee Review:** The veterinarian confirms and updates the service fees for a visit, procedure, or treatment before generating the bill.
- **Invoice Authorization:** The veterinarian reviews and approves the final invoice, ensuring all charges are correct and accurate.
- **Outstanding Balance Review:** The veterinarian checks outstanding balances for a client before proceeding with further treatments.

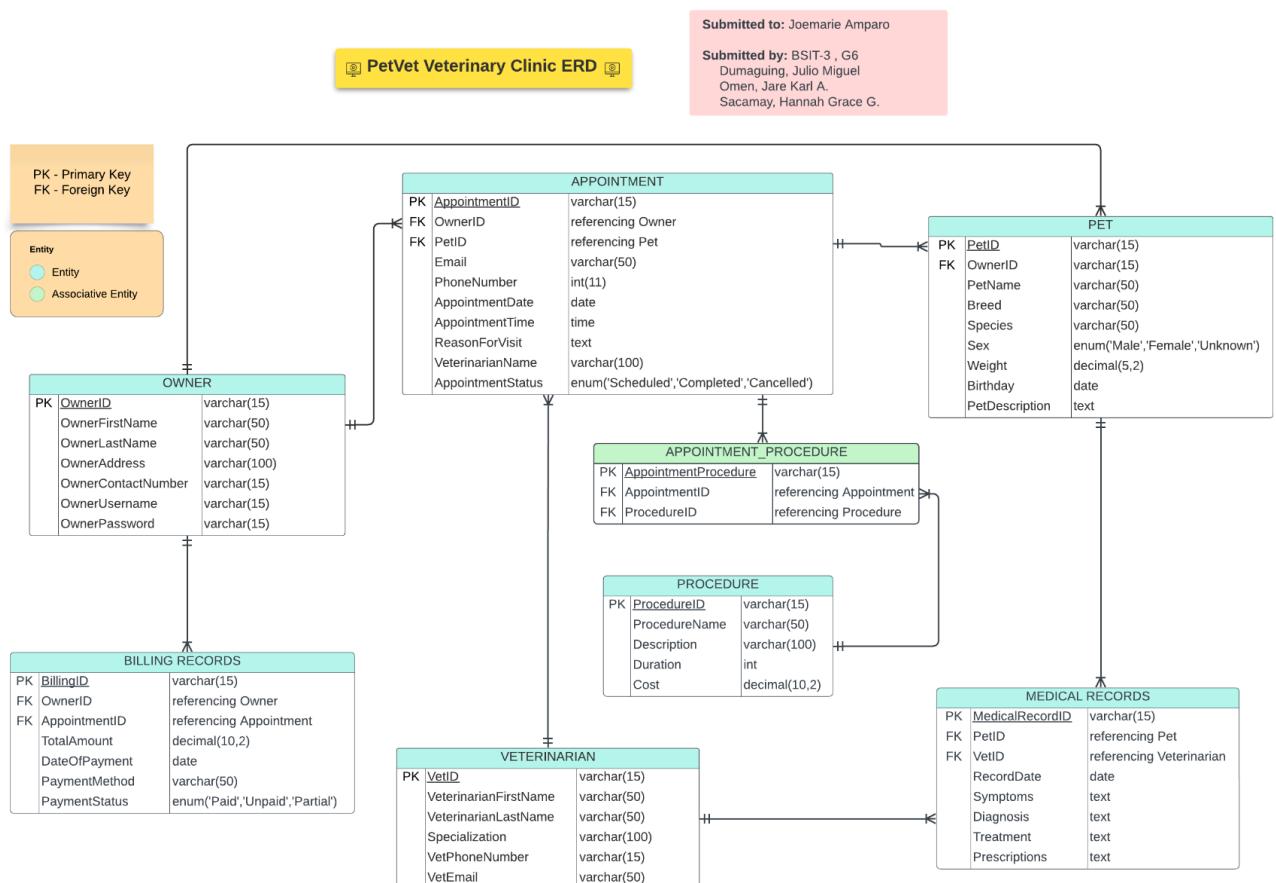
4.0 ENTITY RELATIONSHIP DIAGRAM

The **PetVet Veterinary Clinic System** is a database design conceptualized using an Entity-Relationship Diagram (ERD). It efficiently organizes and manages information related to the clinic's operations, focusing on pet owners, their pets, veterinary appointments, medical records, billing, and procedures. Key entities in the system include:

1. **Owner:** Stores information about pet owners, including contact details and login credentials.
2. **Pet:** Maintains details about each pet, including their breed, species, weight, birthday, and description.
3. **Appointment:** Tracks appointments for pets, capturing details such as the date, time, reason for visit, veterinarian name, and appointment status.
4. **Veterinarian:** Contains records of veterinarians, including their contact information and specialization.

5. **Procedure:** Details procedures offered at the clinic, such as their descriptions, durations, and costs.
 6. **Appointment Procedure:** An associative entity that links appointments and procedures performed during those appointments.
 7. **Medical Records:** Logs diagnostic and treatment details for pets, including symptoms, diagnosis, prescriptions, and the attending veterinarian.
 8. **Billing Records:** Manages payment details for appointments, including amounts, payment methods, and status.

The ERD reflects relationships between entities, with appropriate primary and foreign keys to ensure data integrity. For example, owners are linked to their pets, appointments are connected to both pets and veterinarians, and billing is associated with specific appointments and owners. This system is designed to streamline clinic operations, improve data organization, and enhance the client experience.



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