

FPT ACADEMY INTERNATIONAL
FPT - APTECH COMPUTER EDUCATION

PET ZONE STORE

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Month 05 Year 2025

INDEX

PHASE 1: DEFINITION OF THE PROBLEM.....	1
1. Current Situation.....	1
2. Problem Statement.....	1
3. Proposed Solution.....	1
4. Defining the Scope of the Project.....	2
TASK SHEET REVIEW 1.....	3
PHASE 2: REQUIREMENT ANALYSIS.....	5
1. Inputs of the System.....	5
5. Outputs of the System.....	5
6. Major System Functions.....	6
7. System Goals.....	6
PHASE 3: DESIGN.....	7
1. Objective.....	7
2. Designing GUI Standards.....	7
3. Designing the Interface:.....	8
4. Designing the Database.....	9
5. Designing the Process Modules.....	10
6. Designing Coding Standards.....	11
7. Building the Prototype.....	12
7. 1. Data flow Diagram.....	12
7. 1. 1. LEVEL 0.....	12
7. 2. Physical ERD.....	13
7. 3. Some special tables structure.....	14
7. 3. 1. Table users.....	14
7. 3. 2. Table: roles.....	14
7. 3. 3. Table: user_pets.....	15
7. 3. 4. Table: adoption_requests.....	15

7. 3. 5. Table: bookings.....	16
7. 3. 6. Table: pets.....	16
7. 3. 7. Table: gears.....	17
7. 3. 8. Table: reviews.....	18
7. 3. 9. Table: Order.....	18
7. 3. 10. Table: order_items.....	19
PHASE 4: DEVELOPEMENT & UI/UX SCREENSHOT.....	21
1. Objective:.....	21
2. Technologies Used.....	21
3. Project Folder Structure.....	21
3. 1. Backend (Lavarel).....	21
3. 2. Frontend (ReactJS).....	21
4. Module Breakdown.....	22
5. Development Process.....	22
6. Source Code Management.....	22
7. UI/UX Screen shot.....	23
7. 1. Figure 1. Homepage.....	23
7. 2. Figure 2. Login Page.....	24
7. 3. Figure 3. Pet Listing Page.....	25
7. 4. Figure 4. Gear Listing Page.....	27
7. 5. Figure 5. Booking Page.....	28
7. 6. Figure 6. Contact Page.....	31
7. 7. Figure 7. Admin Dashboard.....	31
TASK SHEET REVIEW 2.....	33
PHASE 5: EVALUATION & TESTING.....	35
1. Objective:.....	35
2. Testing Types Conducted:.....	35
PHASE 6: IMPLEMENTATION.....	37

1. Objective:.....	37
2. Deloyment Process:.....	37
3. Technologies Used:.....	37
PHASE 7: MAINTENANCE.....	38
1. Objective:.....	38
2. Key Maintenance Types:.....	38
3. Additional Notes:.....	38
TASK SHEET REVIEW 3.....	39

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

PHASE 1: DEFINITION OF THE PROBLEM

1. Current Situation

PetZone is a business that offers pet care services (such as grooming, spa, and veterinary checkups) and sells a variety of pet products including food, accessories, clothes, and medicine. However, the current business operations are mostly manual or handled via phone calls, which leads to several issues:

- Scheduling appointments is inefficient and may lead to conflicts or double bookings.
- Customer and pet information, service history, and order records are not consistently tracked or managed.
- Managing product inventory and order statuses is prone to errors.
- Customers have no direct access to book services, browse available products, or track their orders online.

2. Problem Statement

PetZone needs an integrated software solution to:

- Allow customers to register, add pet profiles, and book services (spa, grooming, vet visits).
- Provide an online shopping experience for pet products including food, accessories, and medication.
- Automatically calculate service/product costs, generate invoices, and save order history.
- Handle delivery details and order tracking.
- Enable admins and staff to manage customers, pets, bookings, orders, and reports easily.

3. Proposed Solution

- We propose developing a web-based system named PetZone with the following core features:
- Customer registration and login

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

- Pet profile management
- Online service booking (with available time slots)
- E-commerce functionality for browsing and purchasing pet products
- Shopping cart and online checkout
- Delivery management and shipment status tracking
- Admin portal for managing users, services, products, bookings, and order analytics

The system will be built using ReactJS for the frontend, Laravel for the backend, and MySQL as the database to ensure modern architecture, scalability, and maintainability.

4. Defining the Scope of the Project

- The scope of this project focuses on developing a web-based application that enables customers to:
 - Register and log in to the system
 - Manage their pets' profiles
 - Book various pet care services (spa, grooming, medical checkups)
 - Browse and purchase pet products (food, accessories, medications)
 - Proceed to checkout and track shipping information
 - Receive invoices and view order/service history
- On the admin side, the system allows:
 - Managing users, pets, services, products, and bookings
 - Monitoring inventory and order statuses
 - Generating basic reports for decision-making

This project will be limited to desktop web browsers and will not include native mobile apps or third-party payment gateways integration at this phase.

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Effective Date: 29/05/2025	Version 1.0

TASK SHEET REVIEW 1

PROJECT: PET ZONE STORE

No.	Task Description	Date	Duration (days)	Assigned To	Status
1	Current Situation	10-May-25	1	Đạt	Completed
2	Problem Statement	10-May-25	1	Minh	Completed
3	Proposed Solution	10-May-25	1	Đăng	Completed
4	Defining the Scope of the Project	10-May-25	1	Thức	Completed
5.	Task Sheet Review	10-May-25	1	Đạt	Completed
DATE: 13-May-25					
Signature of Instructor:			Signature of Team Leader:		
Ms. LE MONG THUY			NGUYEN MINH THUC		

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Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

PHASE 2: REQUIREMENT ANALYSIS

1. Inputs of the System

No.	Input	Description
1	User Information	Full name, email, password for login/registration
2	Pet Information	Pet name, species, breed, gender, age
3	Booking Request	Selected pet, service, date, time slot
4	Product Selection	Product name, quantity
5	Shipping Address.	Recipient name, address, phone number
6	Payment Method	COD (Cash on Delivery) or internal checkout

5. Outputs of the System

No.	Input	Description
1	Pet List	Displays list of registered pets for each user
2	Booking List	Upcoming and past appointments
3	Product List	Browseable products with stock status
4	Cart & Invoice	Items selected for purchase with total price
5	Order status	In progress /Shipping / Delivered
6	Admin Reports	Summary of sales, booking, inventory

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6. Major System Functions

No.	Function	Description
1	User Registration/Login	Secure account creation and authentication
2	Pet Management	Add, edit, delete pet profiles
3	Booking Service	Book pet spa/clinic service with validation
4	Online Shopping	Add products to cart, manage quantities
5	Checkout Process	Input shipping info, confirm payment
6	Shipping Management	Admin updates delivery status
7	Admin Management	CRUD on users, pets, bookings, products
8	Reporting	Export reports on usage and revenue

7. System Goals

- Digitize pet care scheduling and product purchasing.
- Reduce manual errors and improve efficiency.
- Offer customers a seamless, self-service platform.
- Support PetZone's administrators in tracking and managing bookings, orders, and inventory.

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Effective Date: 29/05/2025	Version 1.0

PHASE 3: DESIGN

1. Objective

The goal of the Design Phase is to build a detailed blueprint of the system, which includes interface layout, data structure, process logic, and coding standards to ensure consistency and maintainability throughout development.

2. Designing GUI Standards

The user interface for PetZone is standardized to maintain a consistent **look, feel, flow, and theme** across all screens.

Color Palette:

Element	HEX Code	Usage
Primary Color	#6D7AB5	Used in headers, main buttons, highlights
Background Color	#FFFFFF	Page backgrounds for a clean, fresh look
Text Color	#1F2328	Main content and titles
Secondary Color	#9e9d9d	Placeholders, light labels, borders

Standardized Elements:

- **Font:** Sans-serif, clean and modern (e.g., Inter, Roboto)
- **Title Sizes:** text-2xl or larger
- **Buttons:** Rounded corners (rounded-xl), shadows (shadow-md), primary color on hover
- **Layout:** Header is fixed at the top, footer at the bottom
- **Responsive:** Optimized for both desktop and mobile devices

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Effective Date: 29/05/2025	Version 1.0

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3. Designing the Interface:

The screens are designed to align with the established GUI Standards. Each screen serves a specific function and is clearly laid out for user interaction.

Key Screens:

- Homepage / Introduction to PetZone
- Login / Register
- Pet List & Add Pet
- Appointment Booking Page
- Pet Shop (View Products, Cart)
- Gear Shop (Accessories, Equipment)
- Admin Service Management Page

Navigation Flow:

- Fixed top navigation bar
- Breadcrumb navigation for sub-pages
- Clear action buttons such as “Book Now”, “Add Pet”, “Buy Now”

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Effective Date: 29/05/2025	Version 1.0

4. Designing the Database

Main Tables:

- **users** – stores user login and profile info
- **user_pets** – records pet details for each user
- **services** – holds available pet care services
- **bookings** – stores appointment bookings
- **products** – holds items for Pet Shop & Gear Shop
- **orders** – records orders placed by users

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Effective Date: 29/05/2025	Version 1.0

5. Designing the Process Modules

Core Modules:

- User login and registration
- Pet management (add/edit/delete pet)
- Appointment booking logic
- Pet Shop order handling
- Gear Shop accessories purchase
- Admin service control
- Admin order management

Validation Rules:

- Prevent double-booking in the same time slot
- Verify valid appointment dates
- Check product stock levels before order

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Effective Date: 29/05/2025	Version 1.0

6. Designing Coding Standards

Naming Conventions:

- Variables: camelCase (e.g., userId, petList)
- React components: PascalCase (e.g., BookingModal.jsx)
- Laravel Controllers: PascalCaseController
- APIs: RESTful (/api/bookings, /api/products)

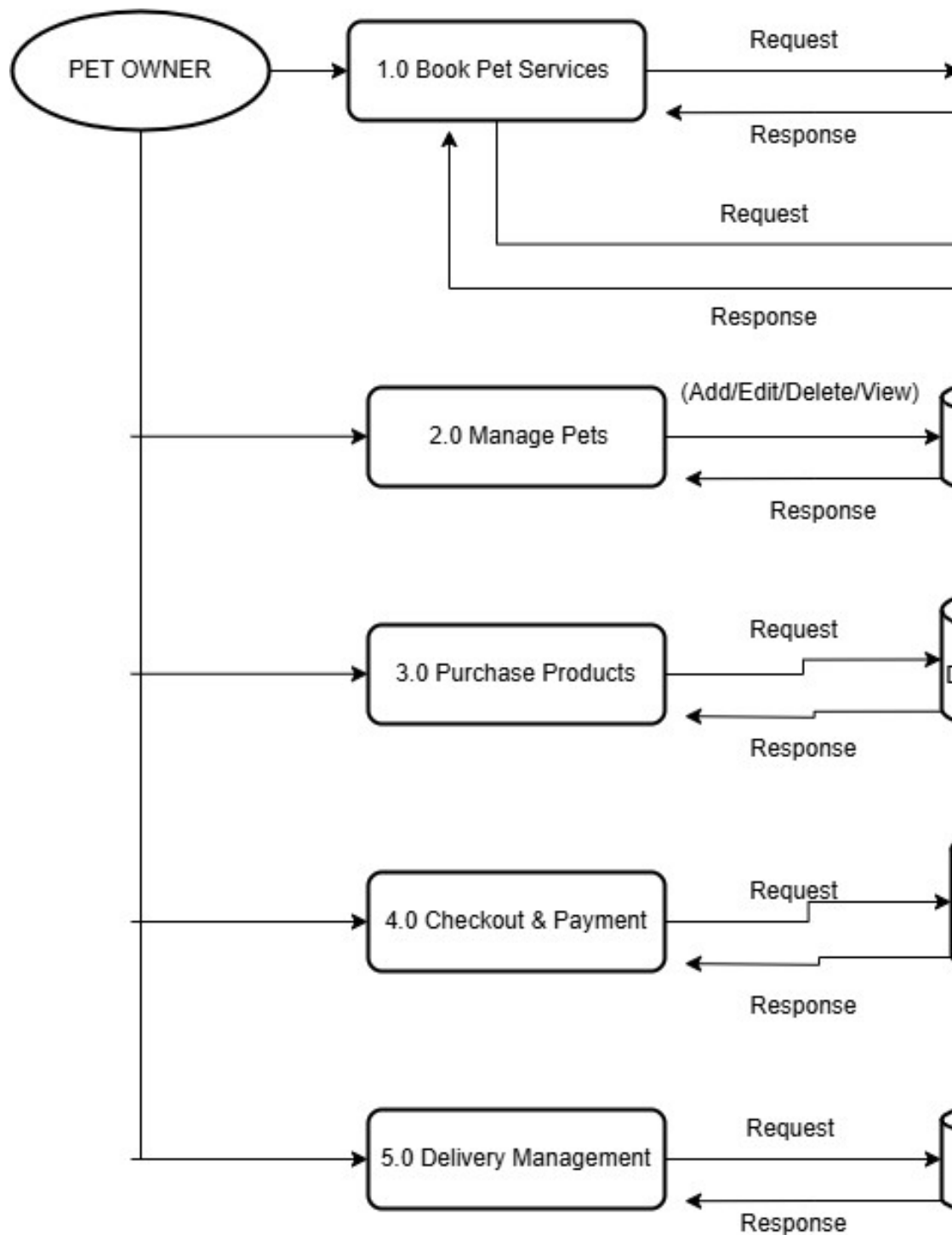
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Effective Date: 29/05/2025	Version 1.0

7. Buiding the Prototype

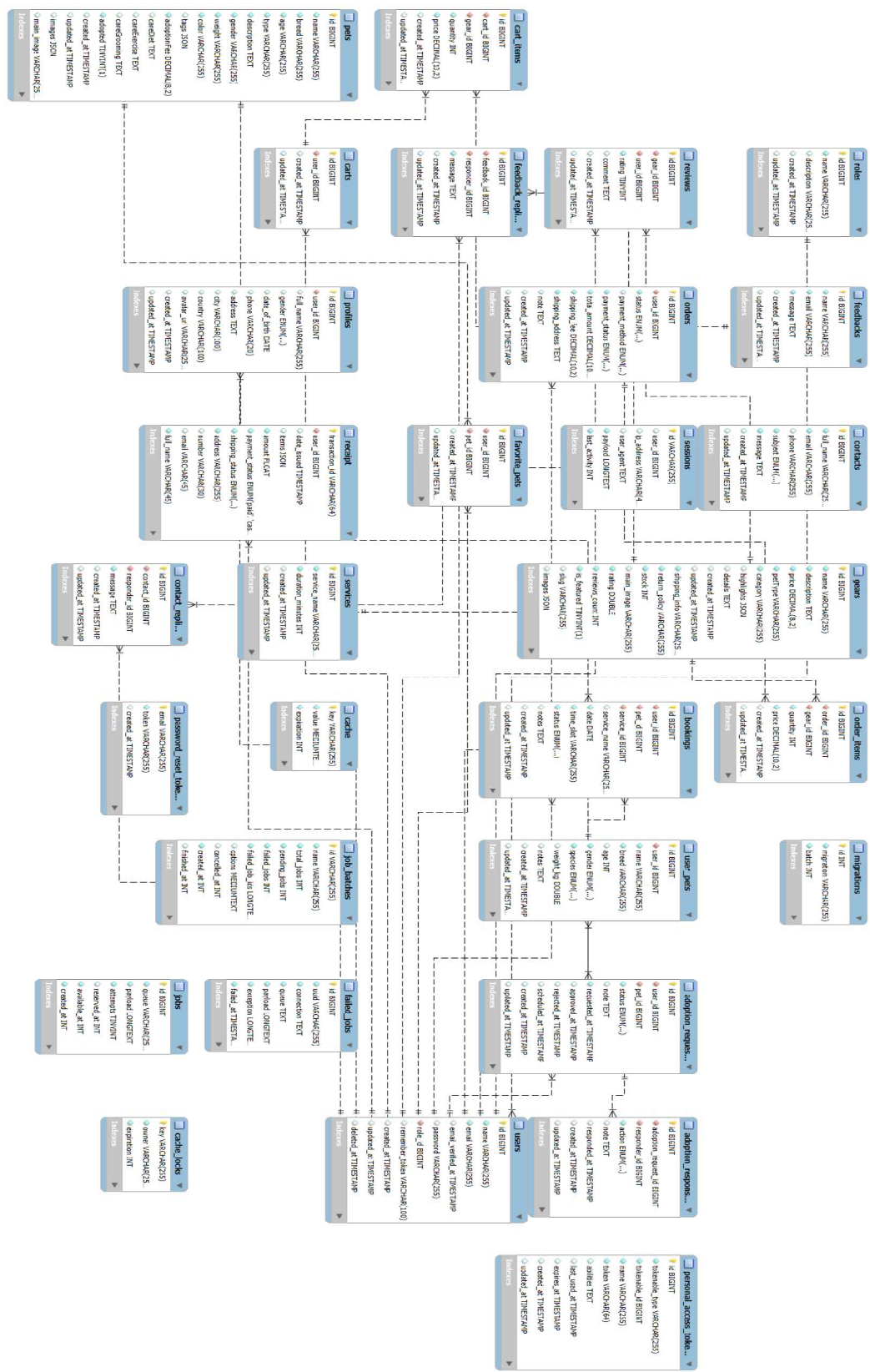
7. 1. Data flow Diagram

7. 1. 1. LEVEL 0



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7. 2. Physical ERD



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Effective Date: 29/05/2025	Version 1.0

7. 3. Some special tables structure

7. 3. 1. Table users

Field	Data Type	Key	Description
id	BIGINT UNSIGNED	PK	Primary key (auto increment)
name	VARCHAR(255)		Full name of the user
email	VARCHAR(255)	UNIQUE	Email address
email_verified_at	TIMESTAMP	NULLABLE	Time when the email was verified
password	VARCHAR(255)		Hashed user password
role_id	BIGINT UNSIGNED	FK → roles.id	Foreign key to <code>roles</code> table
remember_token	VARCHAR(100)	NULLABLE	Token for “remember me” login session
created_at	TIMESTAMP		Record creation timestamp
updated_at	TIMESTAMP		Last update timestamp
deleted_at	TIMESTAMP	NULLABLE	Soft delete timestamp

7. 3. 2. Table: roles

Field	Data Type	Key	Description
id	BIGINT UNSIGNED	PK	Primary key, auto-increment
name	VARCHAR(255)		Role name (e.g., admin, customer)
created_at	TIMESTAMP		Timestamp when role was created
updated_at	TIMESTAMP		Timestamp when role was last updated

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

7. 3. 3. Table: user_pets

Field	Data Type	Key	Description
id	BIGINT UNSIGNED	PK	Primary key, auto-increment
user_id	BIGINT UNSIGNED	FK users.id →	Foreign key, links to the owner (user)
name	VARCHAR(255)		Name of the pet
breed	VARCHAR(255)		Pet's breed (e.g., Poodle, Persian)
age	INT		Age of the pet in years
gender	ENUM('Male', 'Female', 'Unknown')		Gender of the pet
species	ENUM('Dog', 'Cat', 'Reptile', 'Rodent')		Species category of the pet
weight_kg	DOUBLE		Pet's weight in kilograms
notes	TEXT	NULLABLE	Additional notes or description
created_at	TIMESTAMP		Timestamp when record was created
updated_at	TIMESTAMP		Timestamp of last update

7. 3. 4. Table: adoption_requests

Field	Data Type	Key	Description
id	BIGINT	PK	Primary key, auto-increment
user_id	BIGINT	FK → users.id	Foreign key, user who requested the adoption
pet_id	BIGINT	FK → pets.id	Foreign key, the pet that is being requested
status	ENUM('pending', 'approved', 'rejected')		Current status of the request
note	TEXT	NULLABLE	Optional message or note from the user
requested_at	TIMESTAMP	DEFAULT	Time the

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

Field	Data Type	Key	Description
t		CURRENT_TIMESTAMP	request was created
approved_at	TIMESTAMP	NULLABLE	Time the request was approved (nullable if not yet)
created_at	TIMESTAMP		Timestamp when the record was created
updated_at	TIMESTAMP		Timestamp of the last update

7. 3. 5. Table: bookings

Field	Data Type	Key	Description
id	BIGINT UNSIGNED	PK	Primary key, auto-increment
user_id	BIGINT UNSIGNED	FK → users.id	User who created the booking
pet_id	BIGINT UNSIGNED	FK user_pets.id →	The pet receiving the service
service_type	ENUM('Spa', 'Vet')		Type of service booked (e.g., Spa, Veterinary checkup)
date	DATE		Date of the appointment
time_slot	VARCHAR(255)		Time slot for the booking
status	ENUM('Pending', 'Confirmed', 'Completed', 'Cancelled')		Current booking status
notes	TEXT	NULLABLE	Additional notes from user (optional)
created_at	TIMESTAMP		Record creation timestamp
updated_at	TIMESTAMP		Record last updated timestamp

7. 3. 6. Table: pets

Field	Data Type	Key	Description
id	BIGINT	PK	Primary key, auto-increment

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

Field	Data Type	Key	Description
name	VARCHAR(255)		Pet's name
breed	VARCHAR(255)		Breed of the pet
age	VARCHAR(255)		Age description (e.g., "2 months", "1 year")
type	VARCHAR(255)		Animal type (e.g., dog, cat, rabbit...)
description	TEXT		Description of the pet's personality or background
gender	VARCHAR(255)		Gender (e.g., Male, Female, Unknown)
weight	VARCHAR(255)		Weight in textual format (e.g., "4kg")
color	VARCHAR(255)		Pet's fur color
tags	JSON		Keywords for filtering (e.g., ["friendly", "quiet"])
adoptionFee	DECIMAL(8,2)		Fee to adopt the pet
image	VARCHAR(255)	NULLABLE	URL or filename of pet image
careDiet	TEXT	NULLABLE	Dietary needs
careExercise	TEXT	NULLABLE	Exercise needs
careGrooming	TEXT	NULLABLE	Grooming or hygiene care
adopted	TINYINT(1)		Whether this pet has already been adopted (0/1)
created_at	TIMESTAMP		Creation timestamp
updated_at	TIMESTAMP		Last update timestamp

7. 3. 7. Table: gears

Field	Data Type	Key	Description
id	BIGINT	PK	Primary key, auto-increment
name	VARCHAR(255)		Name of the gear/product
description	TEXT		Short description of the product
price	DECIMAL(8,2)		Price of the product
petType	VARCHAR(255)		Type of pet the product is for (e.g., Dog, Cat)
category	VARCHAR(255)		Product category (e.g., Toy, Food, Accessory)
image	VARCHAR(255)	NULLABLE	Path or URL to product image
highlights	JSON	NULLABLE	Product highlights in list format
details	TEXT	NULLABLE	Full detailed description
created_at	TIMESTAMP		Timestamp when product was added

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

Field	Data Type	Key	Description
updated_at	TIMESTAMP		Last update timestamp
shipping_info	VARCHAR(255)		Shipping information (e.g., delivery time)
return_policy	VARCHAR(255)		Policy on returns (e.g., 14-day return)
stock	INT		Number of items in stock
rating	DOUBLE		Average rating of the product
review_count	INT		Number of reviews received
is_featured	TINYINT(1)		Whether this gear is marked as featured (1 = yes, 0 = no)
slug	VARCHAR(255)	NULLABLE	SEO-friendly URL slug (e.g., "premium-dog-leash")

7. 3. 8. Table: reviews

Field	Data Type	Key	Description
id	BIGINT	PK	Primary key, auto-increment
gear_id	BIGINT	FK → gears.id	Foreign key, product being reviewed
user_id	BIGINT	FK → users.id	Foreign key, user who submitted the review
rating	TINYINT		Rating score (usually 1–5)
comment	TEXT	NULLABLE	Optional comment provided by the user
created_at	TIMESTAMP		Timestamp when the review was created
updated_at	TIMESTAMP		Timestamp when the review was last updated

7. 3. 9. Table: Order

Field	Data Type	Key	Description
id	BIGINT	PK	Primary key, auto-increment
user_id	BIGINT UNSIGNED	FK → users.id	Foreign key linking to the user who placed the order
status	ENUM('pending','processing','shippe	–	Current order

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

Field	Data Type	Key	Description
	d,'delivered','cancelled')		status
payment_method	ENUM('credit_card','paypal','cash_on_delivery')	—	Method of payment
payment_status	ENUM('unpaid','paid','refunded')	—	Current payment state
total_amount	DECIMAL(10,2)	—	Total cost of the order
shipping_fee	DECIMAL(10,2)	—	Delivery cost
shipping_address	TEXT	—	Address where the order should be delivered
note	TEXT	NULLABLE	Optional note from the customer
created_at	TIMESTAMP	—	Timestamp when the order was created
updated_at	TIMESTAMP	—	Timestamp when the order was last updated

7. 3. 10. Table: order_items

Field	Data Type	Key	Description
id	BIGINT	PK	Primary key, auto-increment
order_id	BIGINT	FK → orders.id	Foreign key, links to the order this item belongs to
gear_id	BIGINT	FK → gears.id	Foreign key, the product being purchased
quantity	INT		Number of units of the product
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Effective Date: 29/05/2025	Version 1.0

Field	Data Type	Key	Description
price	DECIMAL(10,2)		Price per unit at time of order
created_at	TIMESTAMP		Timestamp when item was added to the order
updated_at	TIMESTAMP		Timestamp when the record was last updated

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Effective Date: 29/05/2025	Version 1.0

PHASE 4: DEVELOPEMENT & UI/UX SCREENSHOT

1. Objective:

To build the complete PetZone system based on the functional requirements and designs defined in the previous phases.

2. Technologies Used

Component	Technology
Frontend	ReactJS v18, Tailwind CSS
Backend	Laravel 10 (PHP \geq 8.1)
Database	MySQL 8.x
API Architecture	RESTful API
Development Tools	VS Code, Postman, Git, GitHub
Local Server	XAMPP or staging host

3. Project Folder Structure

3. 1. Backend (Lavarel)

/app/Http/Controllers/ → Controllers
 /routes/api.php → API routing
 /database/migrations/ → Table structure

3. 2. Frontend (ReactJS)

/src/components/ → Components like PetForm, BookingModal
 /src/pages/ → Pages like HomePage, ShopPage
 /src/services/ → Axios-based API functions

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Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

4. Module Breakdown

Module	Functionality
User Management	Registration, login, authentication
Pet Management	Add, edit, delete pet profiles
Booking	Schedule services, select pet and time slot
Shop	Browse and select pet products
Cart & Checkout	Add to cart, calculate total, enter shipping
Admin Panel	Manage bookings, products, services, orders

5. Development Process

Step	Task
1	Create the database and define table schemas
2	Build backend API using Laravel
3	Connect frontend with backend using Axios
4	Design and implement frontend UI components
5	Integrate booking, pet, shop, and cart features
6	Conduct testing for core functionalities
7	Optimize UI and fix bugs

6. Source Code Management

- Source code is version-controlled using Git and hosted on GitHub.
- Each major feature is developed in separate branches (e.g., booking-form, product-api).
- Commits follow meaningful naming conventions for easier collaboration.

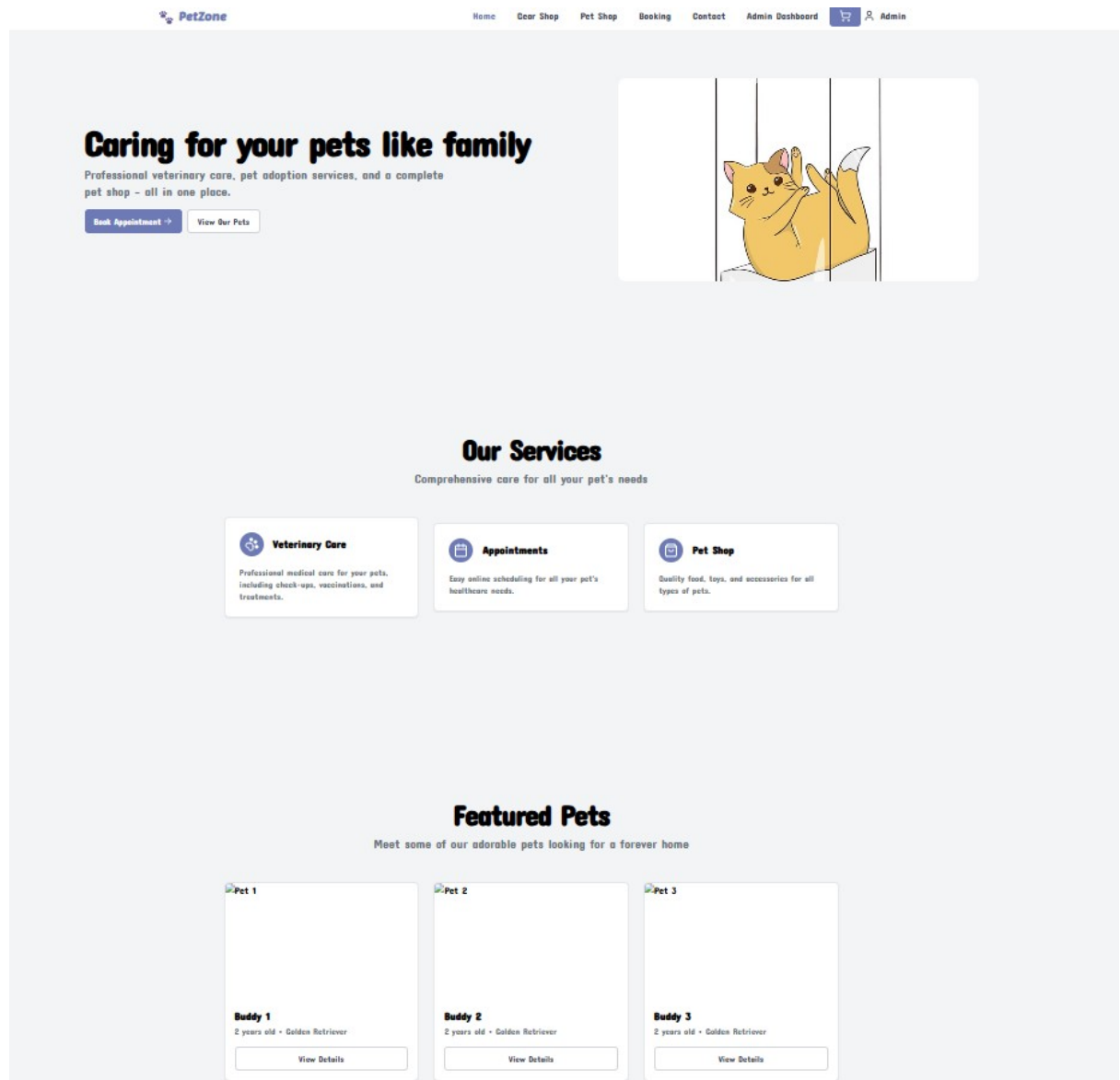
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7. UI/UX Screen shot

The following screenshots showcase selected screens of the Pet Zone platform, reflecting its current development status.

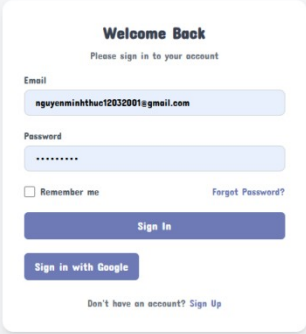
7. 1. Figure 1. Homepage



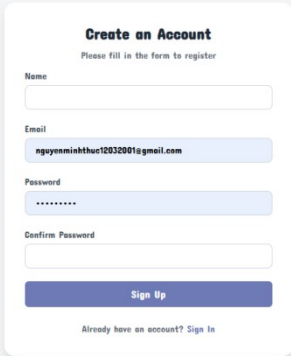
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7. 2. Figure 2. Login Page



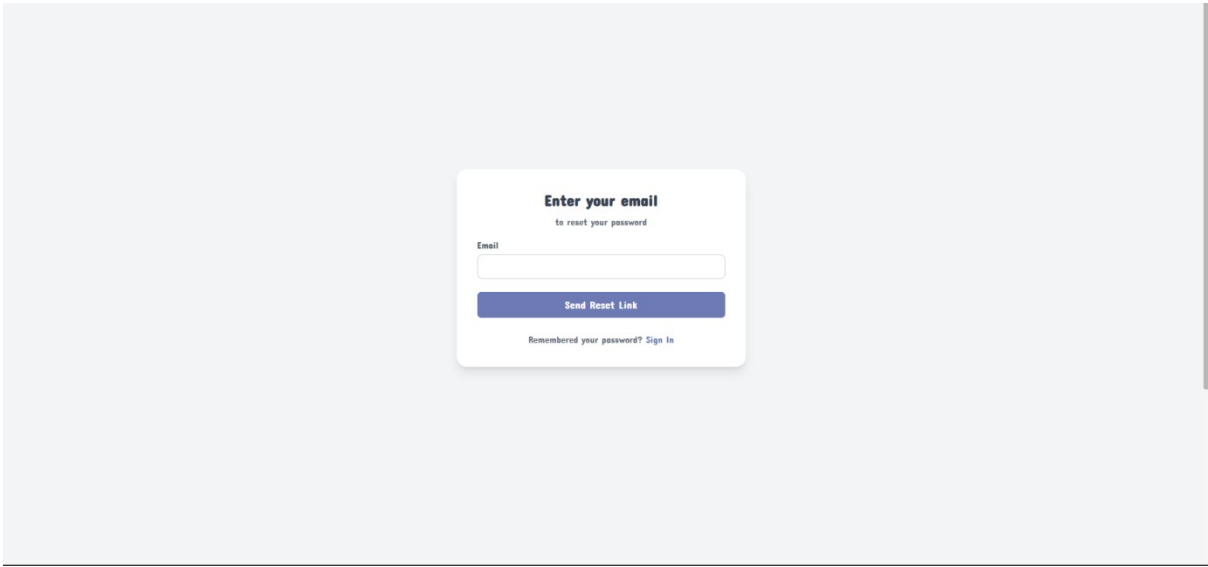
The login page features a central white card with a light gray shadow on a light gray background. The card is titled "Welcome Back" in bold, with the subtitle "Please sign in to your account" below it. The form includes an "Email" field with the placeholder text "nguyenthue1232001@gmail.com", a "Password" field with masked characters "*****", a "Remember me" checkbox, and a "Forgot Password?" link. Below these fields are two buttons: a blue "Sign In" button and a smaller blue "Sign in with Google" button. At the bottom of the card, there is a link that says "Don't have an account? Sign Up".



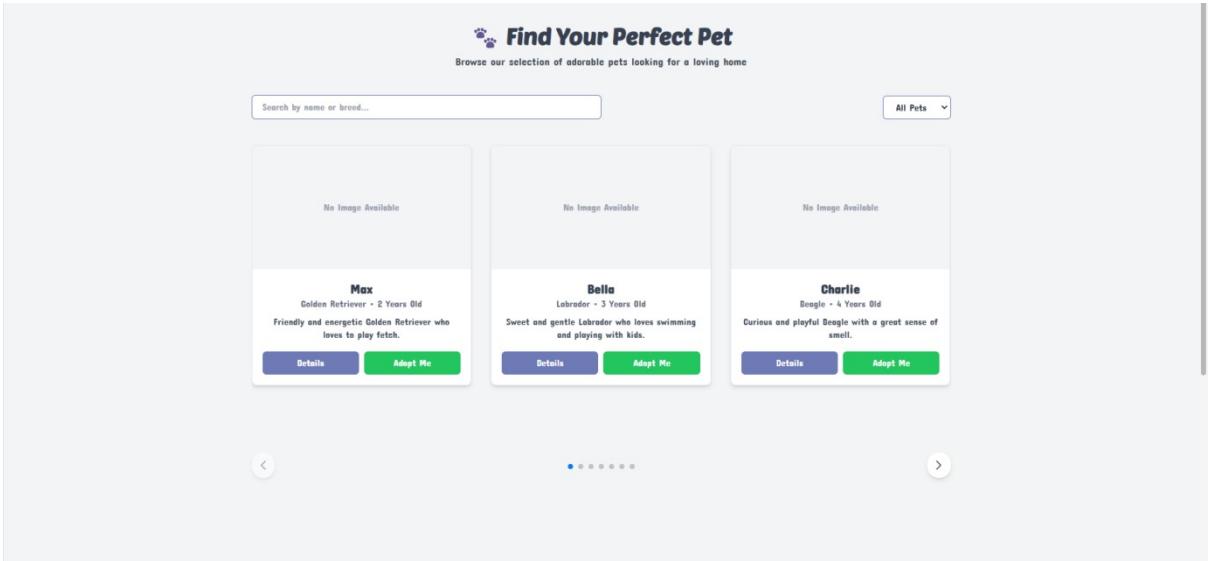
The "Create an Account" page features a central white card with a light gray shadow on a light gray background. The card is titled "Create an Account" in bold, with the subtitle "Please fill in the form to register" below it. The form includes a "Name" field, an "Email" field with the placeholder text "nguyenthue1232001@gmail.com", a "Password" field with masked characters "*****", and a "Confirm Password" field. Below these fields is a blue "Sign Up" button. At the bottom of the card, there is a link that says "Already have an account? Sign In".

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

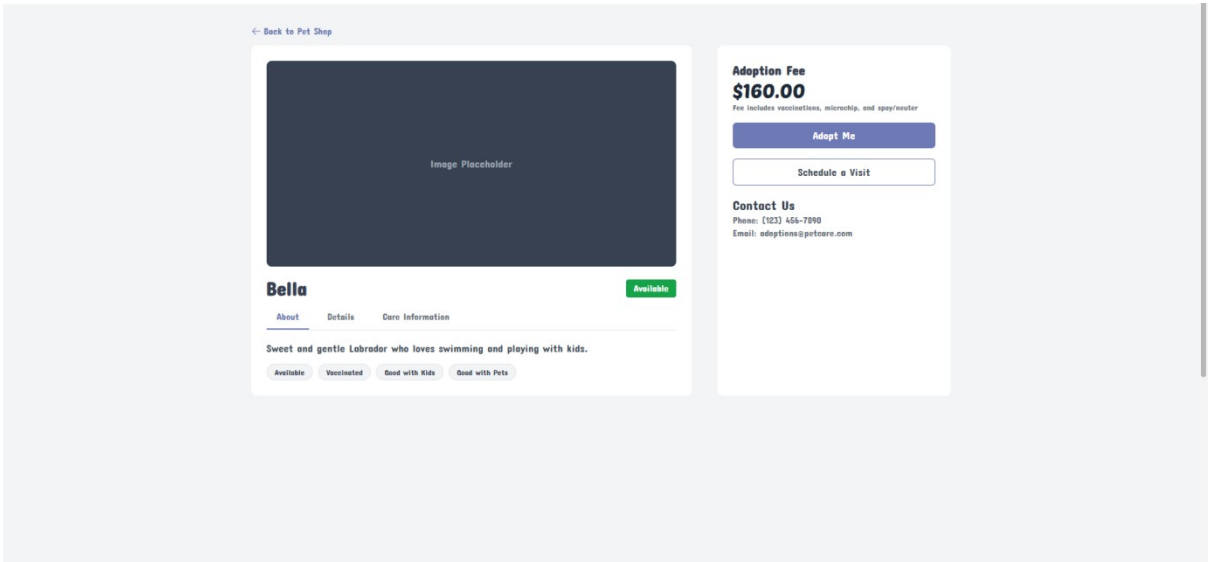
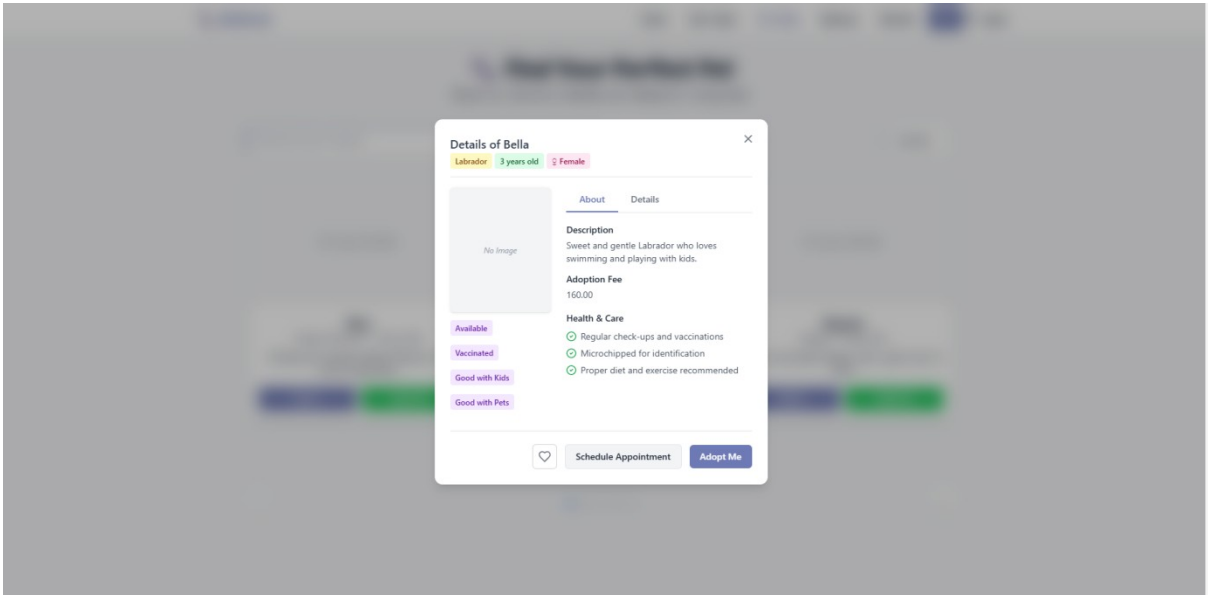


7. 3. Figure 3. Pet Listing Page



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Project Group: No.4	Version 1.0

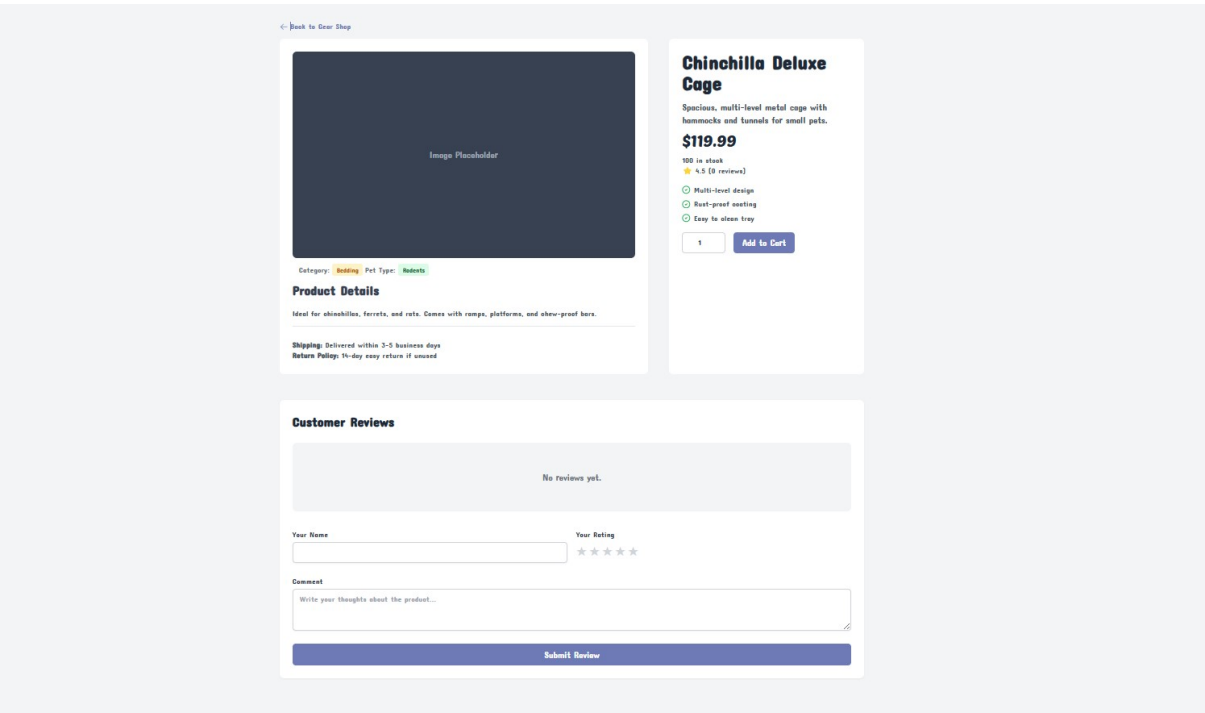
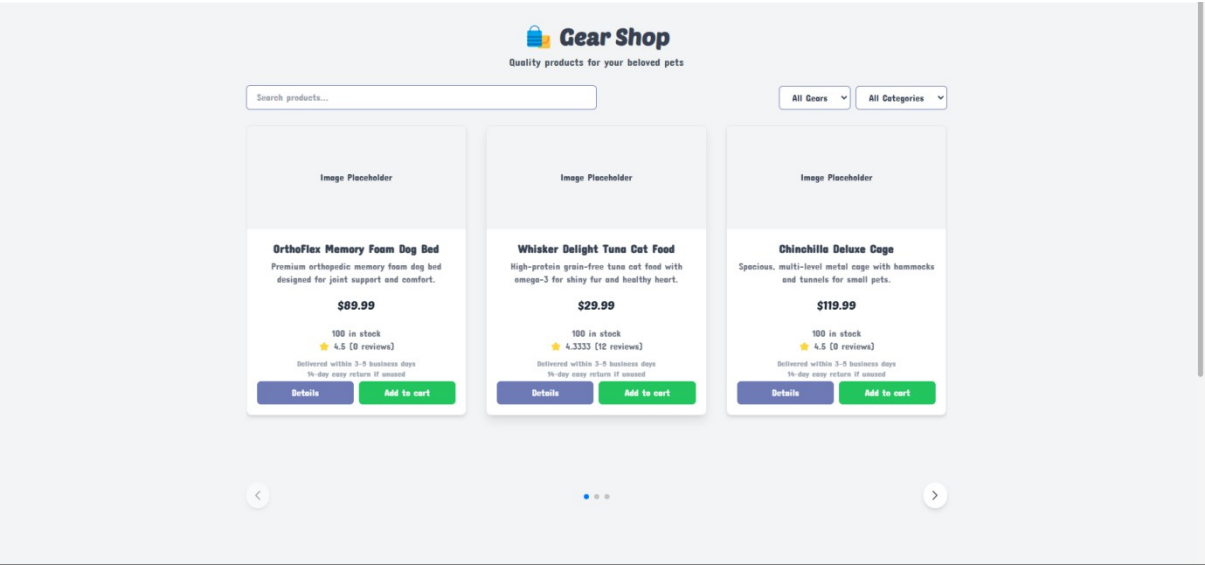
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Effective Date: 29/05/2025	Version 1.0



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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

7. 4. Figure 4. Gear Listing Page



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Effective Date: 29/05/2025	Version 1.0

7. 5. Figure 5. Booking Page



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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0




Spa & Grooming at Pet Zone

Gentle grooming, loving care - helping your pet look great and feel even better.

Five-Star Pampering, Genuine Care

At Pet Zone, we believe every pet deserves to be cared for with love, treated with respect, and pampered like royalty. Our luxury Spa & Grooming services go beyond the basics – delivering a full wellness experience that leaves your furry companions looking their best and feeling even better.

From soothing herbal baths to expert grooming sessions, every service is performed with precision, patience, and heartfelt care. Because at Pet Zone, we don't just groom pets, we celebrate them.



GROOMING



Perfect Spa Combos - Made Just for Your Pet

Every pet is unique – with different needs, personalities, and ways they love to be cared for. That's why at Pet Zone, we've carefully designed a range of Spa & Grooming Combos to suit every furry friend, feeling even better.

Whether your pet just needs a gentle refresh or a full day of pampering, we've got the perfect combo. From soothing baths and coat care to massages, skin therapy, and more – each step is done with patience, love, and expert hands.

Because at Pet Zone, it's not just about looking good – it's about helping pets feel happy, healthy, and loved. Choose the spa combo that fits your pet best, and let them shine inside and out!

Our Most-Loved Spa Packages

Basic Spa

10-Step Relaxation Ritual

Duration: 1 hour

- ✓ Gentle bath with pet-safe shampoos
- ✓ Ear cleaning
- ✓ Nail trimming
- ✓ Teeth cleaning
- ✓ Blow-dry and light brushing
- ✓ Coat brushing
- ✓ Paw balm application
- ✓ Pet-safe fragrance spray
- ✓ General health check
- ✓ Grooming advice for home care

Book Now

Premium Spa

11-Step Ultimate Care

Duration: 1.5 hours

- ✓ Bath with premium shampoos & conditioners
- ✓ Eye & ear deep cleaning
- ✓ Nail trimming and paw pad cleaning
- ✓ Teeth brushing with dental foam
- ✓ Relaxation massage
- ✓ Blow-dry and basic styling
- ✓ Skin treatment (for dryness/itching)
- ✓ Coat brushing and shine enhancement
- ✓ Natural fragrance spray
- ✓ Full-body check-up
- ✓ Home care tips and diet suggestions

Book Now

Ultra Spa

12 Steps of Pet Luxury


Duration: 2.5 hours

- ✓ Bath for sensitive or specific needs
- ✓ Deep ear & eye cleaning
- ✓ Nail trim, paw & sensitive skin care
- ✓ Advanced dental cleaning
- ✓ Full-body massage with essential oils
- ✓ Premium blow-dry and custom styling
- ✓ Skin care for sensitive skin
- ✓ Coat detangling and nutrition treatment
- ✓ Coat mist with natural essential oils
- ✓ Health screening (eyes, ears, skin, paws)
- ✓ Diet & behavior consultation
- ✓ Free gift pack (treats or care items)

Book Now


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Effective Date: 29/05/2025	Version 1.0



Pet Healthcare Services at PetZone

Comprehensive, compassionate care for every stage of your pet's life.





PetZone General Check-Up

Routine and personalized health check-ups to help your furry friends stay strong, happy, and disease-free.

Our experienced vets provide thorough health assessments tailored to your pet's age, breed, and lifestyle. With modern equipment and up-to-date knowledge, we help detect issues early and support your pet's long-term well-being.

[Book Now](#)







PetZone Vet at Home

Convenient veterinary care brought right to your door.

Too busy to visit the clinic? No worries — our experienced vets come to you! Whether it's a health check, vaccination, or consultation, we provide professional care for your pets in the comfort of your own home, with modern equipment and gentle handling.

[Book Now](#)







PetZone Immunization Care

Shield your pet from illness with vaccines.

At PetZone, we provide a full range of vaccines tailored to your pet's age, lifestyle, and health condition. All vaccines are stored and administered under strict standards to ensure maximum protection. Our team offers gentle handling and clear guidance, making the vaccination process smooth and stress-free — for both you and your pet.

[Book Now](#)







PetZone 4D Ultrasound Scan

Advanced imaging for accurate, non-invasive diagnosis.

At PetZone, we use 4D ultrasound technology with high-resolution HD probes and specialized veterinary software to deliver detailed internal images of your pet. Whether it's pregnancy monitoring, abdominal issues, or internal health checks, our scans help detect problems early — safely and comfortably. Quick, gentle, and highly informative — for peace of mind and better treatment planning.

[Book Now](#)







PetZone Spay & Neuter Care


Gentle, safe sterilization for a healthier and happier life.

Spaying or neutering your pet is a responsible choice that supports long-term health, prevents certain diseases, and can reduce unwanted behaviors. At PetZone, we provide safe and compassionate care through every stage — from consultation to recovery. Our veterinary team follows trusted procedures and uses modern equipment to ensure comfort and safety for your furry friend.

[Book Now](#)













Why Choose PetZone?

Trusted care, advanced technology, and a whole lot of love.

-  **Experienced Veterinarians** - A dedicated team that truly cares.
-  **Modern Equipment** - From 4D ultrasound to in-home care tools.
-  **Full-Service Clinic** - Check-ups, vaccines, grooming, surgery & more.
-  **Convenient Options** - In-situ or at-home, we're here when you need us.
-  **Clear Communication** - We guide you through every step.
-  **Gentle Approach** - Stress-free care for pets of all ages.

Because your pet deserves not just care—but PetZone-level care.

[Book Now](#)

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

← Back to Admin Dashboard

Gear Management

Add New Gear

ID	NAME	TYPE	CATEGORY	PRICE	HIGHLIGHTS	ACTIONS
1	OrthoFlex Memory Foam Dog Bed	Dogs	Bedding	\$89.99	Orthopedic memory foam Water-resistant cover Machine washable	Edit Delete
2	Whisker Delight Tuna Cat Food	Cats	Food	\$29.99	Grain-free Omega-3 fatty acids Vet-approved formula	Edit Delete
3	Chinchilla Deluxe Cage	Rodents	Bedding	\$119.99	Multi-level design Rust-proof coating Easy to clean tray	Edit Delete
4	LED UVB Reptile Lamp	Reptiles	Accessories	\$34.99	UVB 10.0 spectrum Long-lasting LED Simulates natural daylight	Edit Delete
5	Interactive Laser Toy for Cats	Cats	Toys	\$22.49	Auto mode USB rechargeable Silent motor	Edit Delete

← Back to Admin Dashboard

User Management

ID	Name	Email	Role	Actions
1	NGUYENMINHTHUC12032001@gmail.com	nguyenminhthuc12032001@gmail.com	Admin	Edit Delete
2	Minh Thuc Nguyen	quocminhthuc999@gmail.com	User	Edit Delete
3	Minh Thuc Nguyen	nguyenminhthuc0094@gmail.com	User	Edit Delete

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

TASK SHEET REVIEW 2

Project Name: Pet Zone Store

Activity Plan prepared by: DAT

No.	Task Description	Date	Duration (days)	Assigned To	Status
1	Database design & ERD	13-May-25	1	Thúc	Completed
2	Backend setup (Laravel, Routes)	13-May-25	1	Thúc	Completed
3	Authentication & Role system	13-May-25	1	Thúc	Completed
4	Pet & Booking modules	13-May-25	1	Đạt	Completed
5.	Gear module + Reviews	13-May-25	1	Thúc	Completed
6	Orders & Checkout	13-May-25	1	Đăng	Completed
7	Admin panel (User/Gear control)	13-May-25	1	Thúc	Completed
8	Frontend UI (ReactJS + TailwindCSS)	13-May-25	1	All member	Completed
9	Testing & bug fixing	13-May-25	1	All member	Completed
10	Report writing	13-May-25	1	Đạt	Completed
11	Database design & ERD	13-May-25	1	Thúc	Completed

Prepared by: All members	Approved by : Lê Mộng Thúy
Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

PHASE 5: EVALUATION & TESTING

1. Objective:

To ensure the PetZone system operates reliably, meets all specified requirements, and is free from critical functional defects.

2. Testing Types Conducted:

Testing Type	Description
Functional Testing	Thoroughly verify every feature including user login, appointment booking, purchases, and management modules.
User Interface (UI) Testing	Confirm the interface is consistent, visually appealing, and complies with GUI standards.
Database Testing	Validate data integrity by ensuring accurate storage without data loss, duplication, or omissions.
Validation Testing	Check all form validations including required fields, input formats, and character limits.
User Acceptance Testing (UAT)	Simulate real-world user scenarios to validate the system's overall usability and functionality.
Cross-Browser Compatibility Testing	Test on major browsers such as Chrome, Firefox, and Edge to guarantee consistent performance.
Device Compatibility Testing (if applicable)	Verify system responsiveness and functionality on desktop, laptops, and devices with smaller screens.

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

PHASE 6: IMPLEMENTATION

1. Objective:

To successfully launch the PetZone system into a live environment following comprehensive testing.

2. Deloyment Process:

STEP	Description
1	Prepare hosting/server environment using XAMPP, Laravel Valet, or deploy on production hosting.
2	Set up the development environment by installing Laravel, ReactJS, MySQL, and configuring environment variables and routing.
3	Deploy the database by importing the .sql file, running migrations, and seeding initial data.
4	Establish seamless communication between frontend and backend by integrating React APIs with Laravel.
5	Create demo accounts for testing purposes, including both user and administrator roles.
6	Provide comprehensive user manuals or guides covering login, booking, and purchasing procedures if needed.

3. Technologies Used:

Component	Technology
Frontend	ReactJS, Tailwind CSS
Backend	Laravel 10
Database	MySQL
Server	XAMPP / Localhost or Production Server

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Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

PHASE 7: MAINTENANCE

1. Objective:

To ensure ongoing system stability, promptly resolve issues, and continuously enhance the system post-deployment.

2. Key Maintenance Types:

Maintenance Type	Description
Corrective Maintenance	Identify and fix bugs or issues encountered during regular operation.
Perfective Maintenance	Enhance user experience by improving the interface and optimizing workflows.
Adaptive Maintenance	Implement new features such as e-wallet integration, QR code support, and mobile responsiveness.
Preventive Maintenance	Regularly update technologies, upgrade frameworks, and apply security patches to mitigate risks.

3. Additional Notes:

Maintenance activities are typically scheduled regularly or performed on-demand as per client requirements.

It is essential for the technical team to perform data backups prior to any system updates or upgrades to prevent data loss.

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Project Group: No.4	Version 1.0

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

TASK SHEET REVIEW 3

Project Name: Pet Zone Store

Activity Plan prepared by: DAT

No.	Task Description	Date	Duration (days)	Assigned To	Status
1	Home Page	19-May-25	1	Đăng	Completed
2	Gear Shop	19-May-25	1	Thức	Completed
3	Pet Shop	19-May-25	1	Thức	Completed
4	Services	19-May-25	1	Đạt	Completed
5.	Contact	19-May-25	1	Thức	Completed
6	My Booking	19-May-25	1	Đạt	Completed
7	My Pet	19-May-25	1	Đạt	Completed
8	My order	19-May-25	1	Đăng	Completed
9	Cart	19-May-25	1	Đăng	Completed
10	Check Shipping	19-May-25	1	Đăng	Completed
11	Check out	19-May-25	1	Đăng	Completed
12	Login	19-May-25	1	Thức	Completed
13	User Account	19-May-25	1	Thức	Completed
14	Admin Account	19-May-25	1	Thức	Completed
15	Admin DashBoard	19-May-25	1	Thức	Completed
16	FAQ/FEEDBACK	19-May-25	1	Mình	Completed
17	CRUD-post, post_comment	19-May-25	1	Mình	Completed
18	CRUD-brand, Category, image_item,detail, of gearshop	19-May-25	1	Thức	Completed
19	Admin send mail	19-May-25	1	Thức	Completed
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Project Group: No.4			Version 1.0		

Design Plan: Pet zone store	Document Name: Review 1+2+3
Effective Date: 29/05/2025	Version 1.0

	functions				
20	CRUD- booking service, timeslot,..	19-May-25	1	Đạt	Completed
21	CRUD - User pets	19-May-25	1	Đạt	Completed
22	UI/UX testing	19-May-25	1	Đạt/thức/Đăng	Completed
23	CRUD-USER ID	19-May-25	1	Thức	Completed
24	My order	19-May-25	1	Đăng	Completed
25	Report Writing	19-May-25	3	Đạt	Completed
26	Final presentation	19-May-25	1	Thức	Completed

DATE: 29-May-25

Signature of Instructor:	Signature of Team Leader:
Ms. LE MONG THUY	NGUYEN MINH THUC

Prepared by: All members	Approved by : Lê Mộng Thúy
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