

# SEPT Presentation

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# Introduction

- Welcome to our presentation!
- Our goal was to develop a web-based application that digitizes appointment bookings, prescription and Medical record management alongside providing a means for new pet owners to learn.
- We accomplished this using technologies like Spring Boot, React, Docker, and AWS.
- Today we'll walk you through our journey from ideation to deployment, highlighting our key features.

# Product and its Architecture

## Frontend Development:

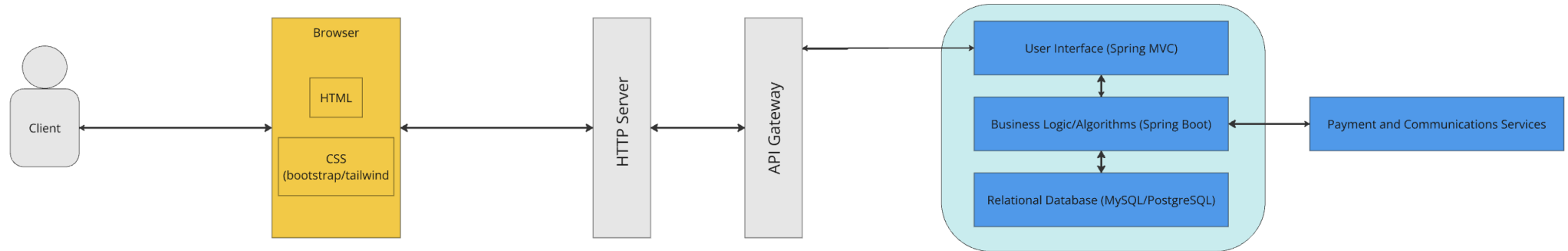
- **Programming Language:** JavaScript
- **Framework:** React.js

## Backend Development:

- **Programming Language:** Java
- **Framework:** Spring Boot

## Database:

- **Database Management System:** SQLite
- **Integrated Development Environment (IDE):**
- **IDE:** Visual Studio Code (VSCode)



# Pipeline architecture

**Overview:** Breaks the prescription refill process into stages for faster and more efficient handling.

## **Key Stages:**

**User Input:** Form submission.

- **Validation:** Ensures valid pet, vet, and medication details.
- **Payment Processing:** Handles credit card/PayPal transactions.
- **Prescription Submission:** Stores the request and notifies pharmacy/vet.
- **Confirmation:** User receives confirmation and notifications.

# Pipeline Architecture in Prescription

- **Parallel Processing:** Stages run simultaneously for faster performance.
- **Modular Design:** Easy to update or add features.
- **Scalability & Efficiency:** Ideal for handling multiple requests efficiently.

# Project Retrospective Development pipeline

## **What Worked Well:**

- Our task board in GitHub helped streamline collaboration, allowing team members to track progress efficiently. Daily Scrum meetings ensured open communication and rapid issue resolution.

## **Improvements:**

- We identified a need for clearer documentation of user stories. Early feedback loops could enhance our understanding of requirements, leading to fewer revisions.

## **Surprises:**

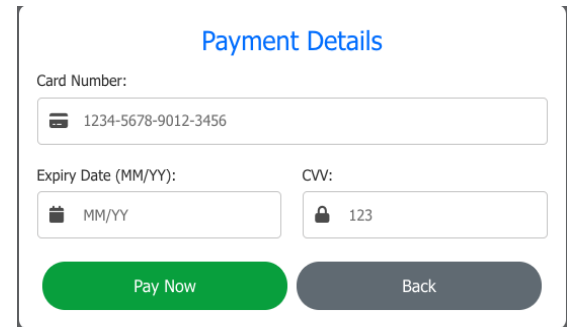
- The complexity of integrating back-end logic and database configuration, exceeded our initial estimates.

## **Lessons Learned:**

- We learned the importance of adaptability in our Agile process. Regularly reviewing our backlog allowed us to pivot based on client feedback and emerging project needs.

# Interesting design/ features (payment) (1 min)

- Pet Owners have an efficient way of paying for their pets' appointment bookings and prescription refills.
- After they fill out their preferences, they are presented with a modal in which they can select either paying by credit/debit card or by using PayPal.
- If a pet owner chooses the credit/debit card option, they will be presented with an appealing payment form where they can enter their credit/debit card details.
- Validation, placeholders and icons are implemented to ensure that they don't enter any incorrect inputs.
- For the PayPal method, a new window is presented to them with PayPal's website shown, where they can either log in to their existing PayPal account or choose to pay with a card.
- This option is much more secure as PayPal has advanced security measures in place for their payment processes.
- Once a payment is completed, a successful payment modal with the details of the service are displayed.
- For the transaction history, it displays a list of all the transactions made by a pet owner, including service type, pet name, amount, date/time and payment method. They can also search for a specific transaction.



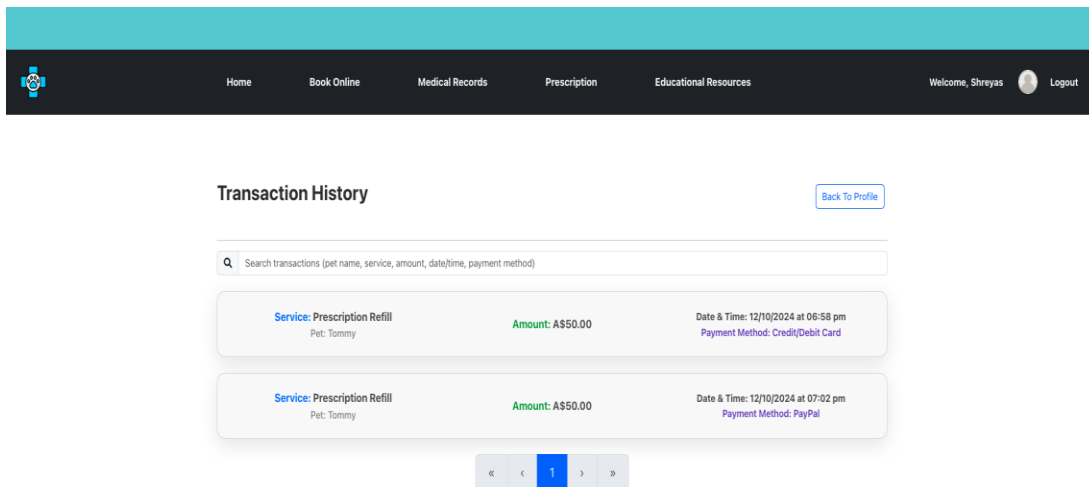
Payment Details

Card Number:  
1234-5678-9012-3456

Expiry Date (MM/YY):  
MM/YY

CW:  
123

Pay Now Back



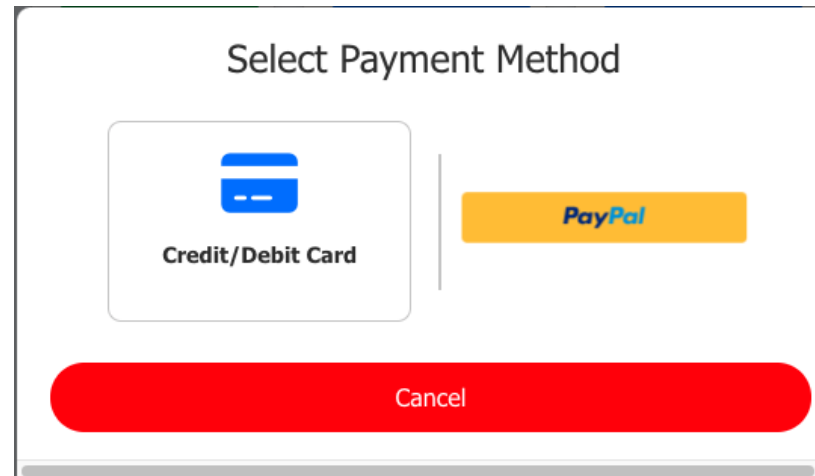
Transaction History

Back To Profile

Search transactions (pet name, service, amount, date/time, payment method)

Service: Prescription Refill Pet: Tommy	Amount: A\$50.00	Date & Time: 12/10/2024 at 06:58 pm Payment Method: Credit/Debit Card
Service: Prescription Refill Pet: Tommy	Amount: A\$50.00	Date & Time: 12/10/2024 at 07:02 pm Payment Method: PayPal

« 1 »

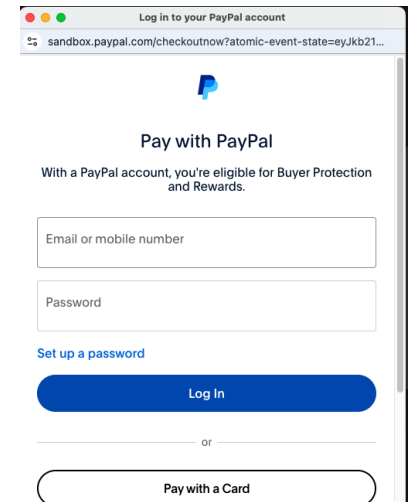


Select Payment Method

Credit/Debit Card

PayPal

Cancel



Log in to your PayPal account

sandbox.paypal.com/checkoutnow?atomic-event-state=eyJkb21...

Pay with PayPal

With a PayPal account, you're eligible for Buyer Protection and Rewards.

Email or mobile number

Password

Set up a password

Log In

or

Pay with a Card

# Communication & Task Board (30s)

- Used Microsoft Teams for communication.
- Had a minimum of 4 SCRUM meetings in a week on both Teams and in-person.
- Had discussed about our individual progress, any issues and planned on what we were going to do before the next meeting.
- Ensured the GitHub Project Task Board was regularly updated with any new user stories, test cases, tasks and bugs.
- Assigned estimate points for each user story, test case, task and bug.
- Use of the project board helped us stay organised, and made it easier to track the status of work.
- Organising the work into columns such as 'To Do', 'In Progress' and 'Done' allowed the team to visualise the state of each task or bug.
- The 'Sprint' iterations and the ability to assign certain members to an issue helped manage and separate the workload.

91	🕒 Add Pet Medical Record #154	👤 idris-Ak	📅 Sprint 1	5	✅ Done	Type: Task
92	🕒 Modify all user stories to match the preferred format #146	👤 Shreyas-Shah30	📅 Sprint 1	2	✅ Done	Type: Task
93	🕒 backend/database set up #171	👤 farahan31	📅 Sprint 1	4	✅ Done	Type: Task
94	🕒 connect backend with Medical record and display the record #174	👤 farahan31	📅 Sprint 1	5	✅ Done	Type: Task
95	🕒 Update SRS document to include all new changes and updates #181	👤 idris-Ak, mahtesh...	📅 Sprint 1	3	✅ Done	Type: Task



## Things That Went Well

- *Front-end: The new user profile page was built using React.js, leveraging reusable components, which reduced development time.*
- *Back-end: Successfully set up the API for user authentication and integrated it with the front-end, enabling secure login and registration.*
- *Regular meetings and communications through the team helped to clarify API needs and integration requirements.*

## Things That Could Have Gone Better

- *Rework in front-end code because of the conflict between the codes. (Didn't pull&push properly)*
- *Back-end: Although the API for user authentication was delivered on time, some performance issues under load weren't identified until late in the sprint, causing delays in testing.*
- *Prioritization between essential back-end features and front-end UI components could have been better coordinated, leading to better timing on both sides.*

## Things That Surprised Us

- *The state management in React became more complex as new features were added, requiring a refactor to improve maintainability.*

## Lessons Learned

- *Back-end performance testing should be conducted earlier in the sprint, especially for critical features like authentication.*

# Medical records

- 1. Securely view Medical Records
- 2. Adding, delete & editing pet's medical history
- 3. Download Medical Records
- 4. share Medical Records with vets
- 5. Vet can view shared medical records
- 6. Filter by service and/or pet
- 7. Search by date or service

Medical Record Details

Date: 2024-10-01

Service: Treatment Plan

Veterinarian: Dr. Rachel

Weight: 12

Health Status: healthy

Diet: meat

Allergies: nuts

Medications: none


Description: needs check ups

Close

Download PDF


Share with Vet

Select Pet Profile



mike

Select



lester

Select

All Pets Medical Records

Category: All

Add Record

Search records by date or service...

Date	Service	Veterinarian	Actions
2024-10-01	Treatment Plan	Dr. Rachel	<div>View</div> <div>Edit</div> <div>Delete</div>

Add Medical Record

Date

Select date

10/03/2024

Service

Treatment Plan

Veterinarian

Dr. Aaron

Weight

300g

Health Status

unhealthy

Diet

vegan

Allergies

pollen

Medications

none

Description

misssing leg

Close

Save Record

Edit Medical Record

Date

Select date

10/03/2024

Service

Treatment Plan

Veterinarian

Dr. Aaron

Weight

300g

Health Status

unhealthy

Diet

vegan

Allergies

pollen

Medications

none

Close

Save Changes

Category: All

All

Vaccination

Treatment Plan

Other

Category: All

Add Record

Search records by date or service...

Vet Dashboard

Welcome, Dr. Ahmed

Logout

ome, Dr. Ahmed

Upcoming Appointments		
Owner	Status	Actions
John Doe	Confirmed	<div>View</div> <div>Reschedule</div>
Jane Smith	Pending	<div>View</div> <div>Reschedule</div>

Shared Medical Records			
Record Date	Pet	Service	Actions
2024-10-01	mike	Treatment Plan	<div>View</div>
2024-10-03	lester	Treatment Plan	<div>View</div>

Share with Vet

Select Veterinarian

Ahmed


Close

Send

# Appointment Mangement

- User pet selection UI integrated.
- Appointment date selection implemented.
- Table of clinics with their prices for comparison has been implemented.
- Payment for a booked appointment was also implemented.
- Appointment management has also been integrated.

Select Pet Profile



john

Selected

Appointments:

Make OR Cancel Appointments

Previous

October 2024

Next

Select Month & Year

Today

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

October 17, 2024

Select A Clinic:


Clinic Name	Vets	Vet Specialties	Prices	Select Clinic
Clinic 1	Dr. Sophie	Veterinarian		Selected
	Dr. Rachel	Canine Behavior Specialist	\$80	
	Dr. Anita	Pediatric Veterinary Specialist		
Clinic 2	Dr. Liam	Emergency Care Veterinarian	\$50	Select
	Dr. Omar	Avian and Exotic Pet Specialist		
Clinic 3	Dr. Emily	Feline Specialist	\$60	Select
	Dr. Lisa	Equine Specialist		
Clinic 4	Dr. Aaron	Surgical Specialist	\$80	Select
	Dr. Bruce	Senior Veterinarian		

Available Times:


09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30
13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30

Book AppointmentClose

Select Payment Method




Credit/Debit Card



PayPal

Cancel

Select Pet Profile



john

Selected

Appointments:

2024-10-17 at 10:30  
(Clinic 1)

Cancel

Available Times:

09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30
13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30

Reschedule AppointmentClose

# Prescription Refill

## Key features

1. Pet Selection
2. Form for Prescription Refill Details
3. Payment Method Selection
4. Credit Card Payment Form
5. PayPal Integration
6. Prescription Request Submission
7. Confirmation

Prescription refill request

LIFE & MORE Pet Food Tools Medical Records Prescriptions Appointment About Us

Select Pet Profile

Pet 1 Pet 2 Pet 3

Select Select Select

Prescription Details

Hill's VET Antibiotics Antiparasitics

Add your Pet Tag

Add prescription Number

Cancel request Submit request

Logo Image Placeholder


Contact Us:  
Address: 123 Example Street 2000  
03 9999 9999  
example@email.com.au

Opening Hours:  
Monday: 8:00am - 6:00pm  
Tuesday: 8:00am - 6:00pm  
Wednesday: 8:00am - 6:00pm  
Thursday: 8:00am - 6:00pm  
Friday: 8:00am - 6:00pm  
Saturday: 8:00am - 1:00pm  
Sunday: CLOSED

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Prescription Refill Request

Select a pet and fill out the details below to request a refill.



Pet

Selected

Medication

Select Medication

Dosage

50 mg

Preferred Pharmacy

Select Pharmacy

Preferred Pickup Date


dd/mm/yyyy

Select Veterinarian


Select Vet

Proceed To Payment

Select Payment Method



Credit/Debit Card



Cancel

Payment Details

Card Number:

1234-3212-3432-1234

Expiry Date (MM/YY):


12/34

CVV:

123

Pay \$50

Back



Pay with PayPal

Enter your email to get started.

Email or mobile number

Enable Password AutoFill

Next

or

Pay with a Card

Update


# Educational Resource

- Pet-related video viewing
- Pet related Article viewing
- Filter the content user wants

The collage displays a variety of pet-related educational content. At the top right, a website header for 'VetClinic' features navigation links: Home, Book Online, Medical Records, Prescription, Educational Resources (highlighted), and Login. Below this, a 'choose the category' section offers 'Dog care' and 'Cat care' options, each with a 'Select' button. A 'Videos' section follows, showing a grid of video thumbnails with red play buttons. These videos cover topics such as 'How to socialize puppies', 'Dog Care Tips for New Owners', 'Puppy Potty Training', 'Dog Dental Health: Why You Should', 'How to Toilet Train a Kitten', 'The Importance of Exercise in Dogs', 'How Can I Help My Cat's Separation Anxiety', 'CPR for Cats: Essential Skills', 'Why Cat Dental Care is Important', 'The Best Food for Cats? Expert Tips', and 'Fat to Fit Cat Exercises'. Below the video grid, an 'Articles' section is visible, with a search bar and a list of article titles including 'Why is My Cat's Nose Dry?', 'When Does a Kitten Become a Cat?', 'Cat Exercises - 5 Cat Workouts and Fitness Tips', 'Is My Cat's Stomach Upset?', 'How to Introduce Cats', 'How to Bathe a Cat: Step-By-Step Tips', 'Signs & Symptoms of a Stressed Cat', 'Is Organic Cat Food Better for My Cat?', 'Cat Vitamins & Supplements: What Do Cats Need?', and 'FVRCP Vaccinations'. At the bottom, a dark footer contains contact information for 'VetClinic' (19 Latrobe Street, Melbourne VIC 3000, Phone: (03) 6783 8383, Email: contact@vetclinic.com.au), opening hours (Mon-Fri: 8:00am - 6:00pm, Saturday: 9:00am - 1:00pm, Sunday: CLOSED), and social media links under 'Follow Us'. A copyright notice '© 2024 VetClinic. All rights reserved.' is also present.

# Home Page and Layout

- Navbar and Footer components created and integrated properly within the pages
- Home Slider navigation with links to relevant/ common pages for quick and easy navigation
- About Us section with appropriate UI Design to promote easy navigation
- Vet Team with information and image paths retrieved from SQL database
- Customer Reviews navigation slider using high level JS and CSS Styling






### Contact Us

Address: 19 Latrobe Street, Melbourne VIC 3000  
Phone: (03) 6783 8383  
Email: [contact@vetclinic.com.au](mailto:contact@vetclinic.com.au)

### Opening Hours


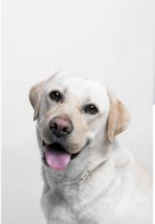
Mon - Fri: 8:00am - 6:00pm  
Saturday: 9:00am - 1:00pm  
Sunday: CLOSED

### Follow Us



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### About Us




At VetCare, our mission is to enhance the well-being of pets and ease the responsibilities of their owners through our innovative Online Vet Clinic Management System. Founded by a team of dedicated veterinary professionals and tech enthusiasts, we blend cutting-edge technology with deep veterinary expertise to bring you a comprehensive, user-friendly solution for managing your pet's health. Our team understands the special bond between pets and their families. That's why we've designed VetCare to be as compassionate and reliable as the care you wish for your furry friends. With a robust network of veterinary clinics and pet care stores, we ensure that our users have the best options right at their fingertips.

We are passionate about animals and committed to providing accurate, up-to-date information to keep your pet healthy and happy. From scheduling appointments to managing medical records, and from prescription refills to accessing educational content, VetCare is here to support every step of your pet care journey. Whether you are at home or on the go, VetCare ensures that expert advice and quality care are never out of reach. Join us in making pet care effortless and effective, with all the tools you need just a click away. Together, let's nurture the health and happiness of our beloved pets.

### Hear From Our Happy Clients!

"One of the biggest advantages of using VetCare is having all of my dog's medical records in one place, accessible online anytime. It's incredibly reassuring to know that I can pull up any past visit details, vaccination records, or lab results whenever needed, especially in emergencies. This feature has made managing my dog's health care so much easier."

— Emily White




[Home](#) [Book Online](#) [Medical Records](#) [Prescription](#) [Educational Resources](#) [Login](#)

Check out our  
extensive  
resources page


[Learn More](#)

### Meet our talented Veterinary Team




**Dr. Sophie**  
Veterinarian  
Specializing in dermatology, Dr. Sophie brings a wealth of experience to the VetCare team...

[Learn More](#)




**Dr. Liam**  
Emergency Care Veterinarian  
Dr. Liam specializes in emergency and critical care at VetCare...

[Learn More](#)



**Dr. Emily**  
Feline Specialist  
Dr. Emily focuses on feline medicine at VetCare, ensuring the best care for our feline friends...

[Learn More](#)



**Dr. Aaron**  
Surgical Specialist  
Dr. Aaron leads the surgical unit at VetCare, focusing on minimally invasive techniques...

[Learn More](#)



# Login, SignUp, User and Pet Profile Management

- Completed and regularly updated the full SRS Document.
- Implemented the CI Pipeline for the project.
- Implemented JUnit and acceptance test cases for the Login, SignUp, Payment and the User and Pet Profile Management features.
- Created the frontend and backend functionality for the Login, SignUp, Payment and the User and Pet Profile Management features based on the user stories made for each feature and each task.
- Added all the necessary dependencies and the application properties to get Spring Boot working.

## Login

Pet Owner Vet

Email Address

Password

Login

Don't have an account? [SignUp](#)

## SignUp To VetCare

Choose Your Role:

Pet Owner

Vet

Name

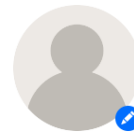
Email ⓘ

Password ⓘ

Confirm Password

Sign Up

Already have an account? [Login](#)



Shreyas

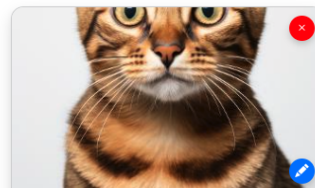
shreyas@gmail.com

Edit Profile

Delete Account

[View Transaction History](#)

## My Pets



Tommy

Type: Cat

Breed: N/A

Age: 5

Edit

Delete



Add Pet



# Conclusion

- In conclusion, our journey throughout this project included overcoming technical challenges, continuously adapting to new requirements and feedback from previous iterations, and finally developing a fully functional system.
- In the end, this project has provided us with great insight on many different types of frameworks and means of going from a concept to a fully functioning system.
- Thank you for listening to our presentation!