Capstone Project

We resolve the current communication issue by facilitating direct communication between veterinarian offices and locum tenens.

Agenda

01
Introduction
About the Project

Stakeholders
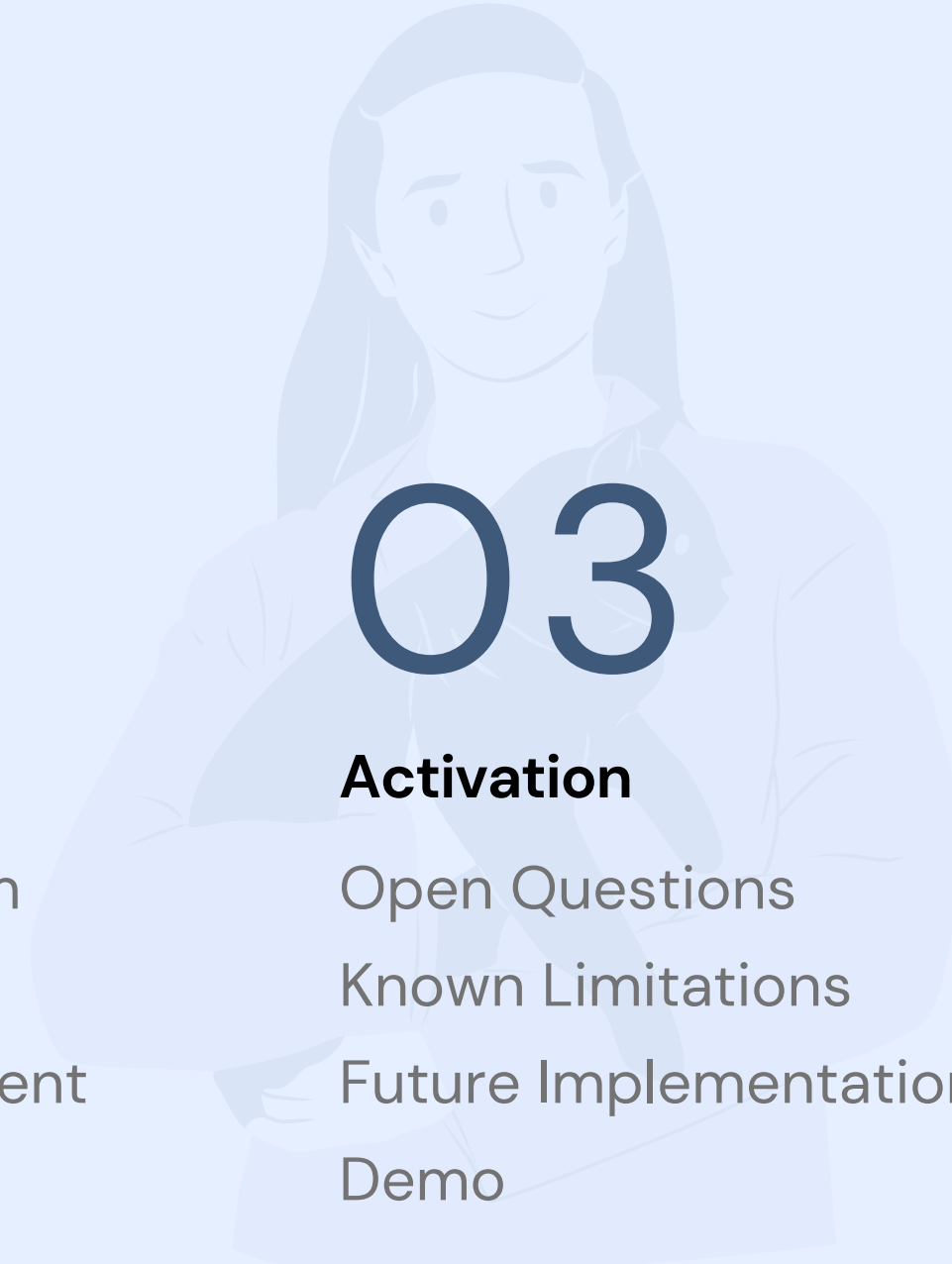
User Stories

Project Planning

02
Project Designs
Architecture Diagram

Database Structure

Functional Requirement

User Flow

Wireframe Design

03
Activation
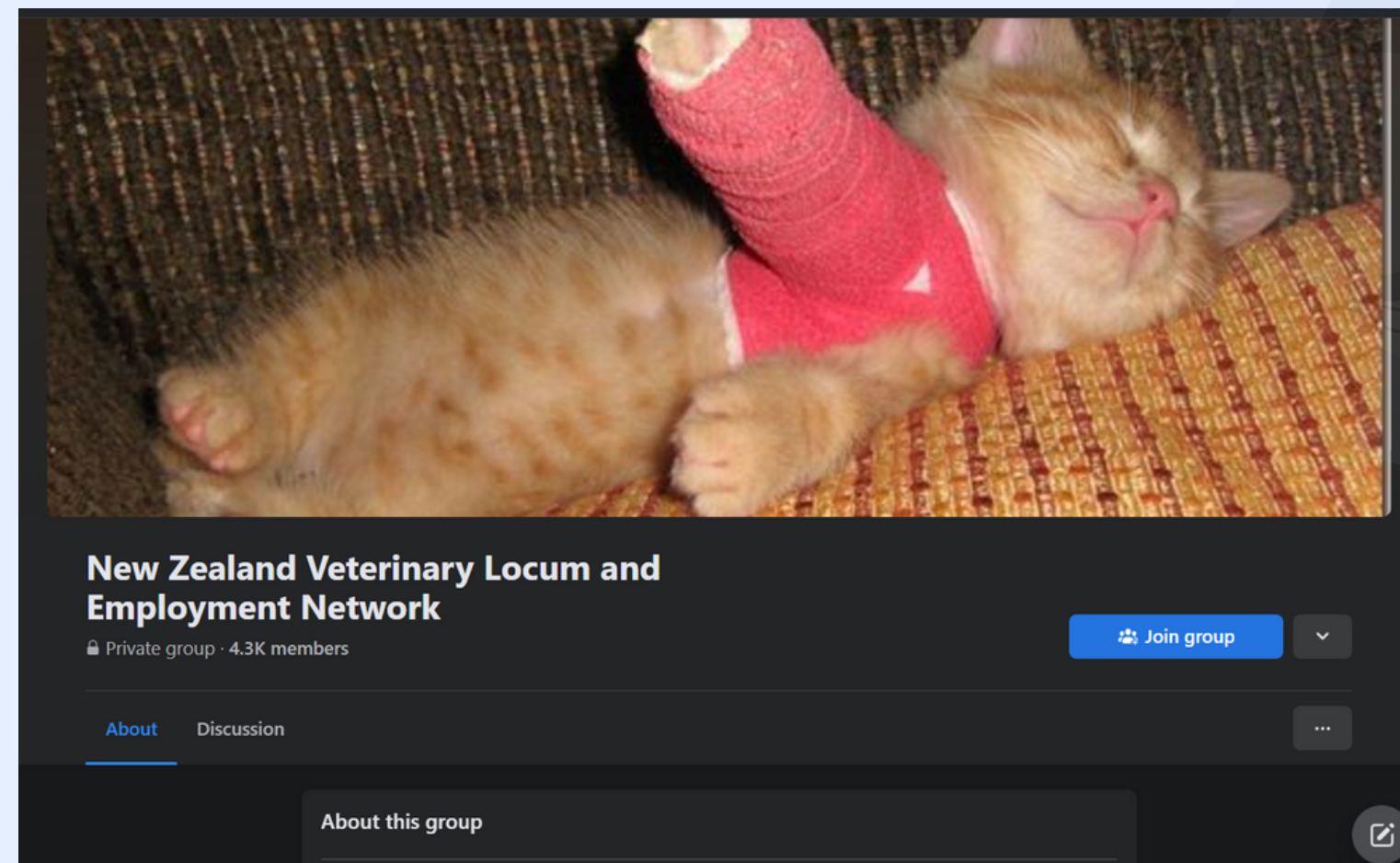Open Questions

Known Limitations

Future Implementations

Demo

About the Project

Problem: In order to market themselves and look for jobs, there hasn't been a website created exclusively for veterinary locums in New Zealand.

As for now, a platform for veterinary locum to independently advertise themselves outside from a recruitment agency hasn't existed yet, the only place for them to so is a Facebook group.

New Zealand Veterinary Locum and Employment Network
🔒 Private group · 4.3K members

👥 Join group ⌄

About　Discussion　…

About this group

Opportunity: Create a website where employers can post job openings for locums and veterinary locums can create profiles and introduce themselves.

Stakeholders

Veterinary locums

- A platform for them to advertise themselves for free to the public.

Clinics

- A platform for them to look for locums in their area
- Create job listings for locums to cover an in-house vet's shift

Early vet graduates who want to become a locum

- Platform to get themselves known to the public
- Access to clinics looking for a locum

User Stories

Vet working in a private practice

As a vet, I want to find out if there's any available locum to cover for my shift during the week where I'm off.

Vet clinic

As a clinic admin, I want to make sure that there will always be a vet working during the week when our in–house vet is on leave

Vet locums

As a locum, I want to advertise myself and get my availability known to the public

Recent vet graduates

As a recent graduate, I want to find a job as a vet, but I don't know which clinic I want to work with yet, so I want to be a locum
As a recent graduate, I don't have any personal contact with the clinics yet, so it is very difficult for me to get a job as most of the available ones are private listings

General public

As a general user, I want to find a private vet to take care of my dog which are available outside the clinic working hours that I can directly contact to

Project Plan

01.

Ideation

Gather requirement
User Flow
Figma Prototype

02.

Create Backend

Create schemas
Create Collections
Design JSON data
MVC Structure

03.

Front-end

Create pages
Create all CRUD operations
Test APIs

04.

Testing & Deployment

Unit testing for all features
Fixing all problems
Deploy to AWS & Netlify

05.

Revisions

Test usability and run by
focus groups. Collect
feedback and iterate.

Architecture Diagram

MongoDB Atlas

Sends data

Send CRUD updates

Back-end

Express on Node.js with MVC Structure

• **Hosted using AWS Beanstalk**

https://www.nz-vet-locum.online/

Send data

Request data

Front-end

React app for optimized performance, with bootstrap and material UI

• **Hosted using netlify**

https://nz-locum-network.netlify.app/

User

Render

Request
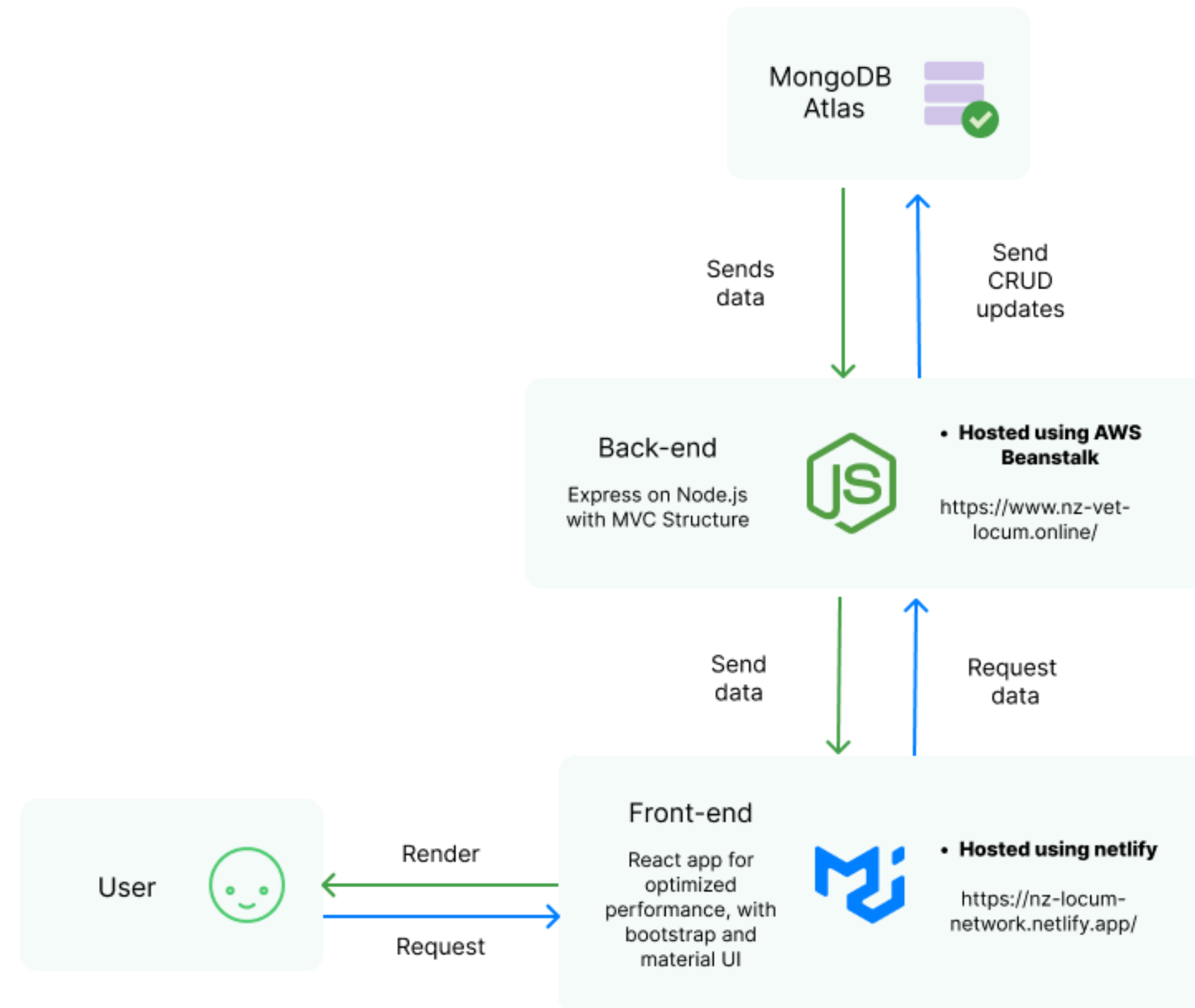
NEXT

PROJECT DESIGNS

Database Structure

Create collection   View   ☰ ⊞

Sort by   Collection Name ▾   ↑↓

cliniccollections

Storage size: Documents: Avg. document size: Indexes: Total index size:
20.48 kB   10   510.00 B   1   36.86 kB

doctorcollections

Storage size: Documents: Avg. document size: Indexes: Total index size:
24.58 kB   16   465.00 B   1   36.86 kB

jobcollections

Storage size: Documents: Avg. document size: Indexes: Total index size:
36.86 kB   14   2.36 kB   1   36.86 kB

```
_id: ObjectId('63a104ae9f740823668cd041')
business_name: "Auckland Pet Care"
specialities: "Supplies, Dogs, Farms, Surgery"
email: "petcare@gmail.com"
phone: "097457324"
password: "$2a$10$o/70NT4/Ye1Sz/9Mup0PH.QdcPmKJRPn6RTKg1j2jZ4DjB.yhw866"
address: "46/48 Pollen Street, Grey Lynn"
hours: "Monday - Friday, from 8am to 5pm"
imageKey: "90f35013-c7b5-415d-9dad-07699a4fd6cb-slide1-1.jpg"
city: "Auckland"
```

```
_id: ObjectId('63a0fdd99f740823668cd037')
first_name: "Sarah"
last_name: "Mclean"
specialities: "Dog, Cats, Surgery"
email: "sarah@gmail.com"
phone: "0455678123"
password: "$2a$10$CY5JH6GbzMFGJTuTLIGw3e7N6vPEbP6wTUgCWnuDDj.hPd2LzlzZm"
city: "Auckland"
license: "AS90847"
availability: "Monday - Friday, from 8am to 5pm, during the first week of March 2023"
work_requirement: "Please book me 2 weeks in advance"
imageKey: "6c4c8fc3-d28e-4083-b698-4fa4b4151de1-pexels-onzeseis-7711206.jpg"
```

```
_id: ObjectId('63a149d49f740823668cd06e')
job_title: "Experienced Veterinary locum - Full/Part-time Options"
location: "Auckland"
specialities: "Horse care"
descriptions: "We are looking for a qualified veterinary nurse, support can be offere…"
clinic_id: "63a149a99f740823668cd06b"
email: "horse.care@gmail.com"
phone: "0982394923"
```

NEXT

Functional Requirement

Doctor's account

Register an account

Add profile information

Sign-in

Update & delete profile

Browser clinic, doctors and job listings

Clinic's account

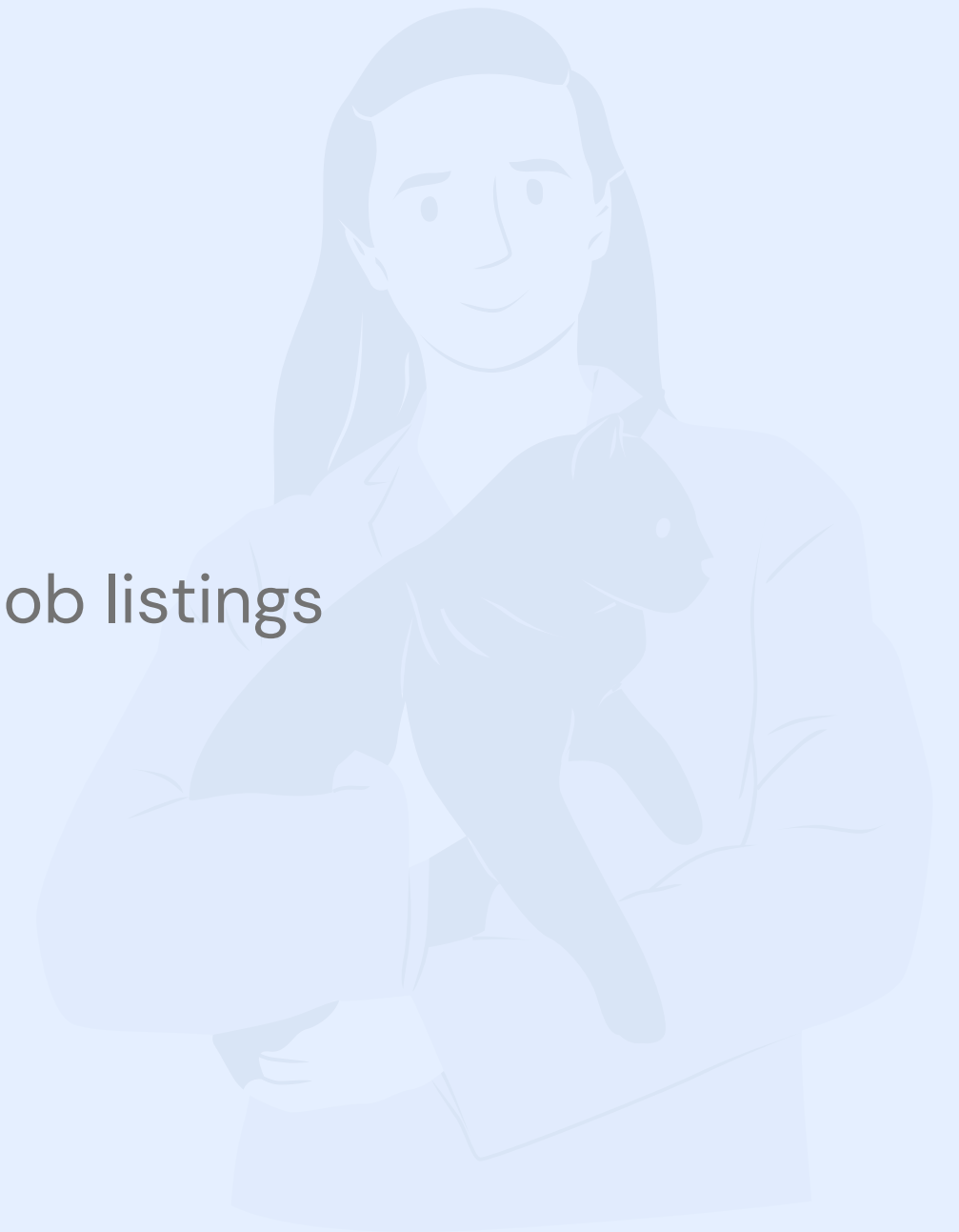Register an account

Add profile information

Sign-in

Update profile

Add job listing

Update and delete the job listing

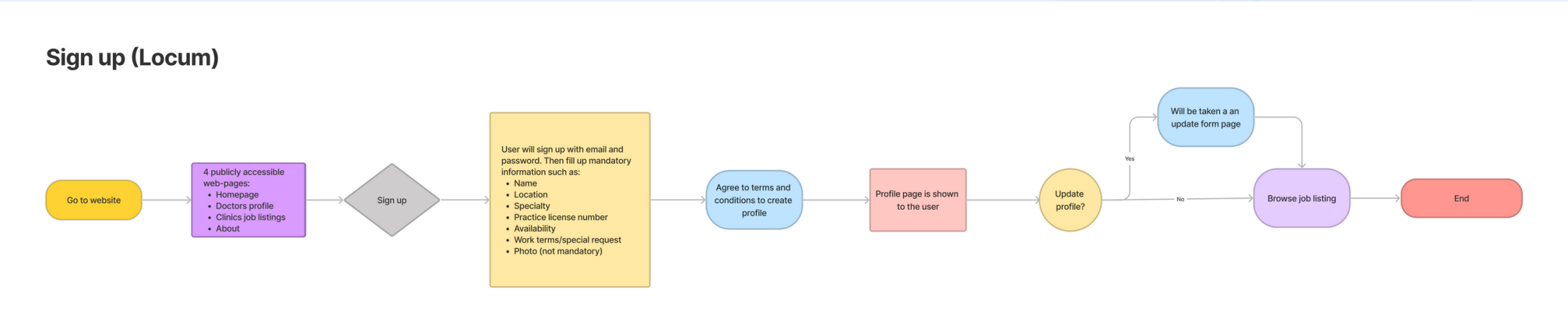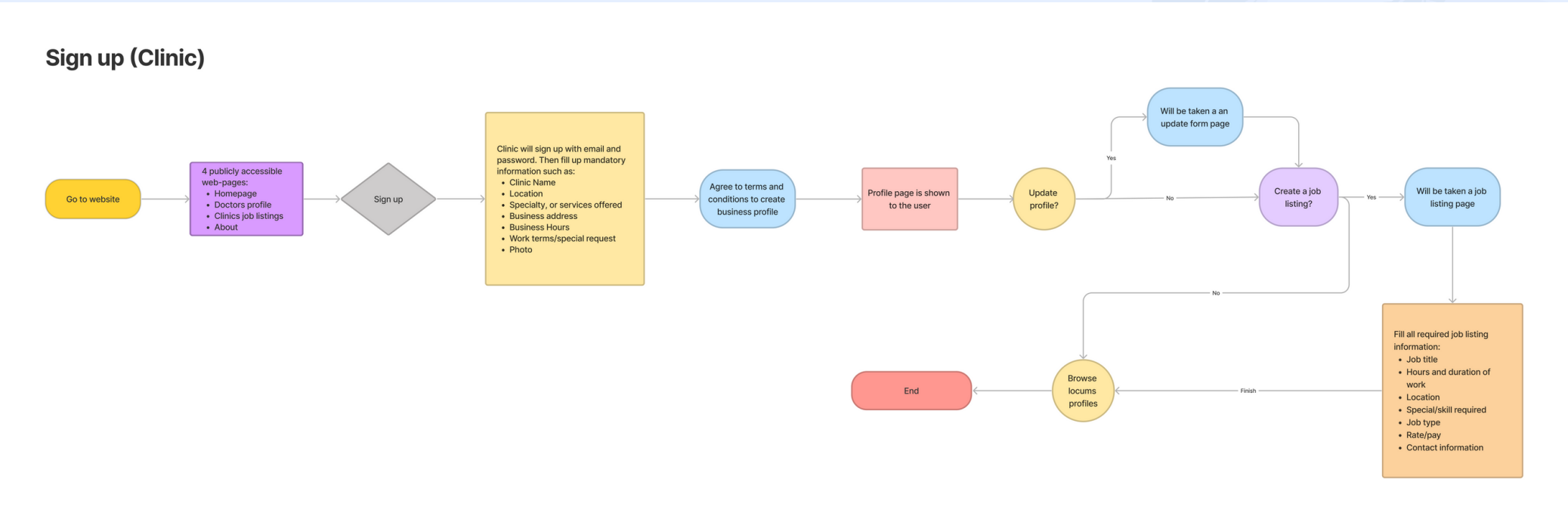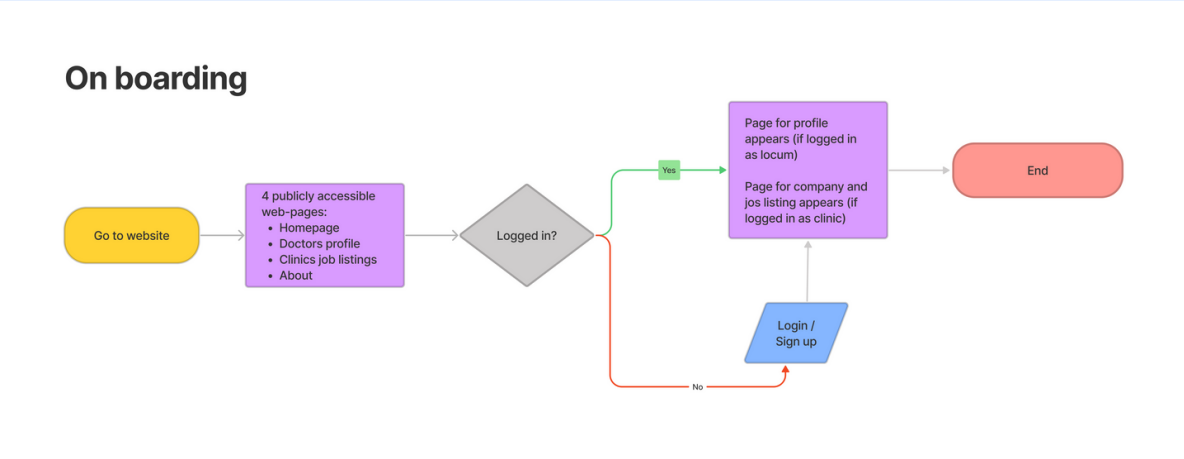Browser clinic, doctors and job listings

PROJECT DESIGNS

User Flow

https://www.figma.com/file/GfSwTgQx
i3aLKluMZj63wd/NZ-Veterinary-
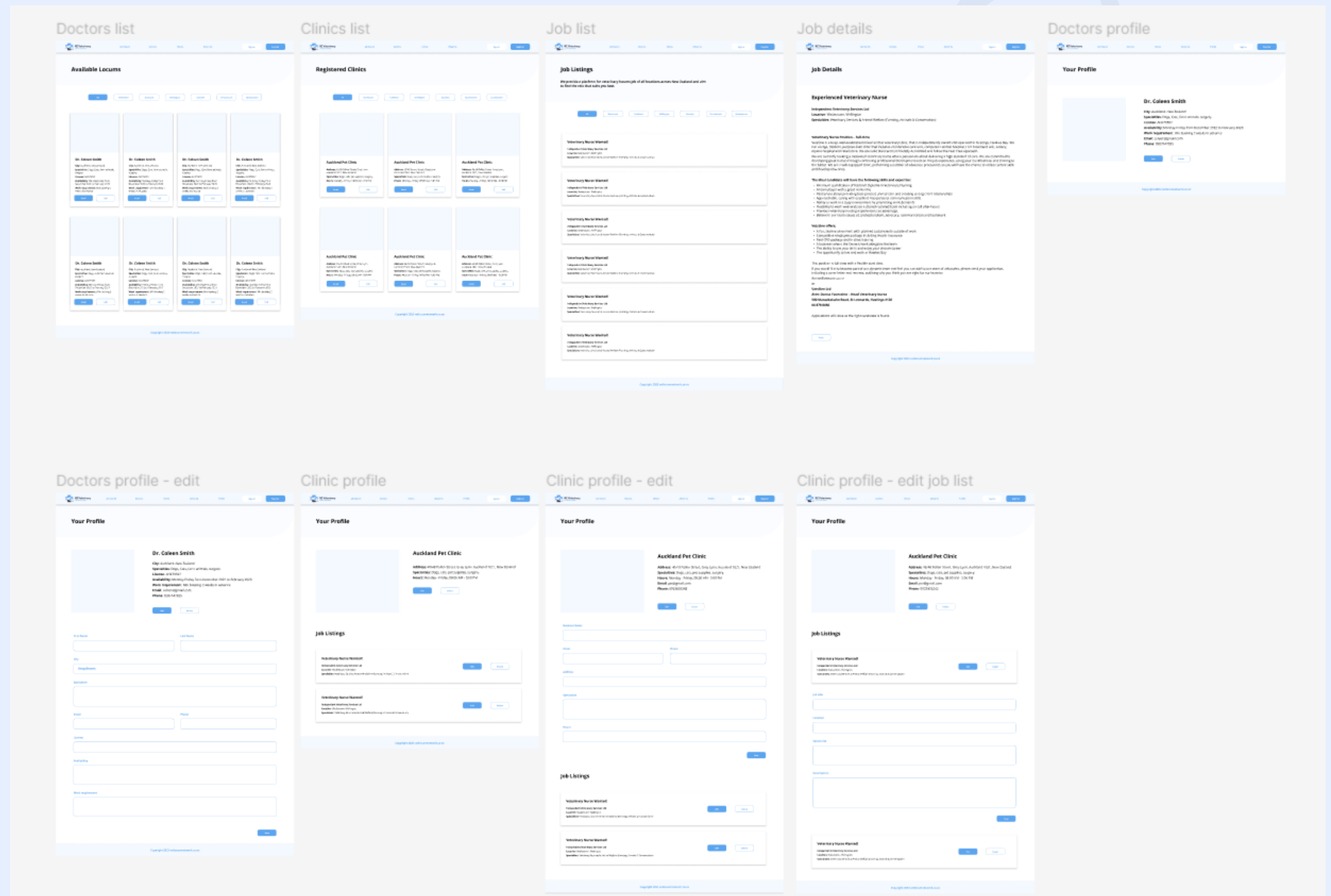Locum-Flow-Diagram?node-
id=0%3A1&t=SnYalRwboAL9ROx6-0

On boarding

Go to website → 4 publicly accessible web-pages:
- Homepage
- Doctors profile
- Clinics job listings
- About
→ Logged in? → Yes → Page for profile appears (if logged in as locum) / Page for company and jos listing appears (if logged in as clinic) → End
Logged in? → No → Login / Sign up

Sign up (Clinic)

Go to website → 4 publicly accessible web-pages:
- Homepage
- Doctors profile
- Clinics job listings
- About
→ Sign up → Clinic will sign up with email and password. Then fill up mandatory information such as:
- Clinic Name
- Location
- Specialty, or services offered
- Business address
- Business Hours
- Work terms/special request
- Photo
→ Agree to terms and conditions to create business profile → Profile page is shown to the user → Update profile? → Yes → Will be taken a an update form page → Create a job listing? → Yes → Will be taken a job listing page

Create a job listing? → No → Browse locums profiles → End

Will be taken a job listing page → Fill all required job listing information:
- Job title
- Hours and duration of work
- Location
- Special/skill required
- Job type
- Rate/pay
- Contact information
→ Finish → Browse locums profiles

Sign up (Locum)

Go to website → 4 publicly accessible web-pages:
- Homepage
- Doctors profile
- Clinics job listings
- About
→ Sign up → User will sign up with email and password. Then fill up mandatory information such as:
- Name
- Location
- Specialty
- Practice license number
- Availability
- Work terms/special request
- Photo (not mandatory)
→ Agree to terms and conditions to create profile → Profile page is shown to the user → Update profile? → Yes → Will be taken a an update form page → Browse job listing → End
Update profile? → No → Browse job listing
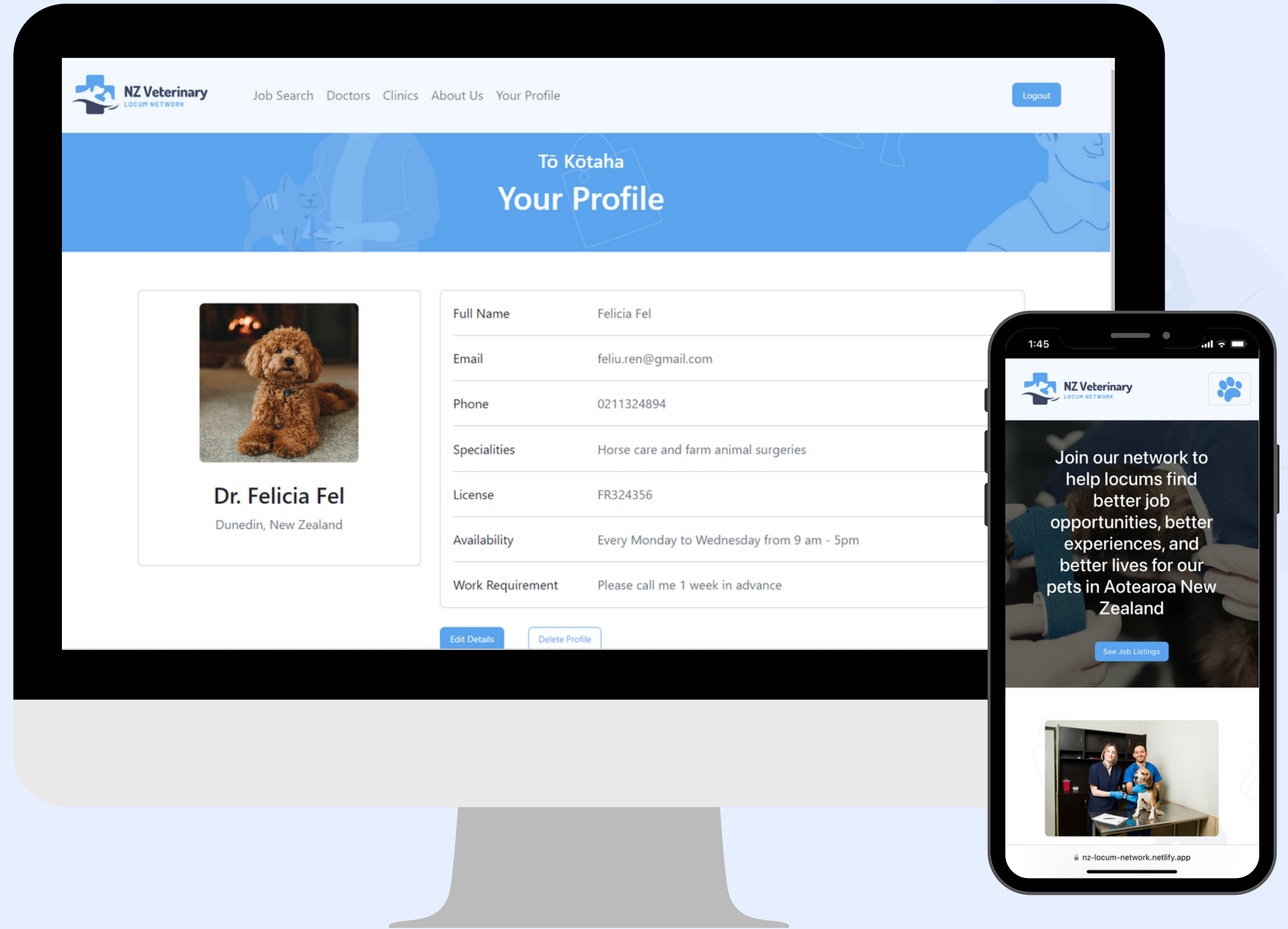
NEXT

PROJECT DESIGNS

Wireframe Design

https://www.figma.com/file/kqeMSGw
cqMYjBFViLUcspq/NZ-Veterinary-
Locum?node-
id=2%3A2&t=AOeA3rnIdJkgSdXF-0

PROJECT DESIGNS

Desktop & Mobile Responsive

Known Limitations

- When you register a user, any uploaded image that's larger than 1 Mb will not go through, this is because the TSL certificate from the cloud server is built with an older version of security policies, and your browser won't allow a large file to be sent. The console log will show that it's a CORS issue.

- More information regarding the TSL certificate can be found here https://docs.aws.amazon.com/elasticloadbalancing/latest/network/create-tls-listener.html

Future Implementations

- Allow job listing due date, so when a job listing is expired it will automatically be removed from the website

Now it's time for DEMO!

https://nz-locum-network.netlify.app/