VetDB

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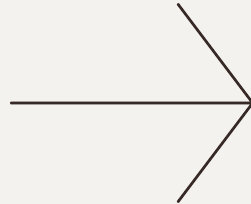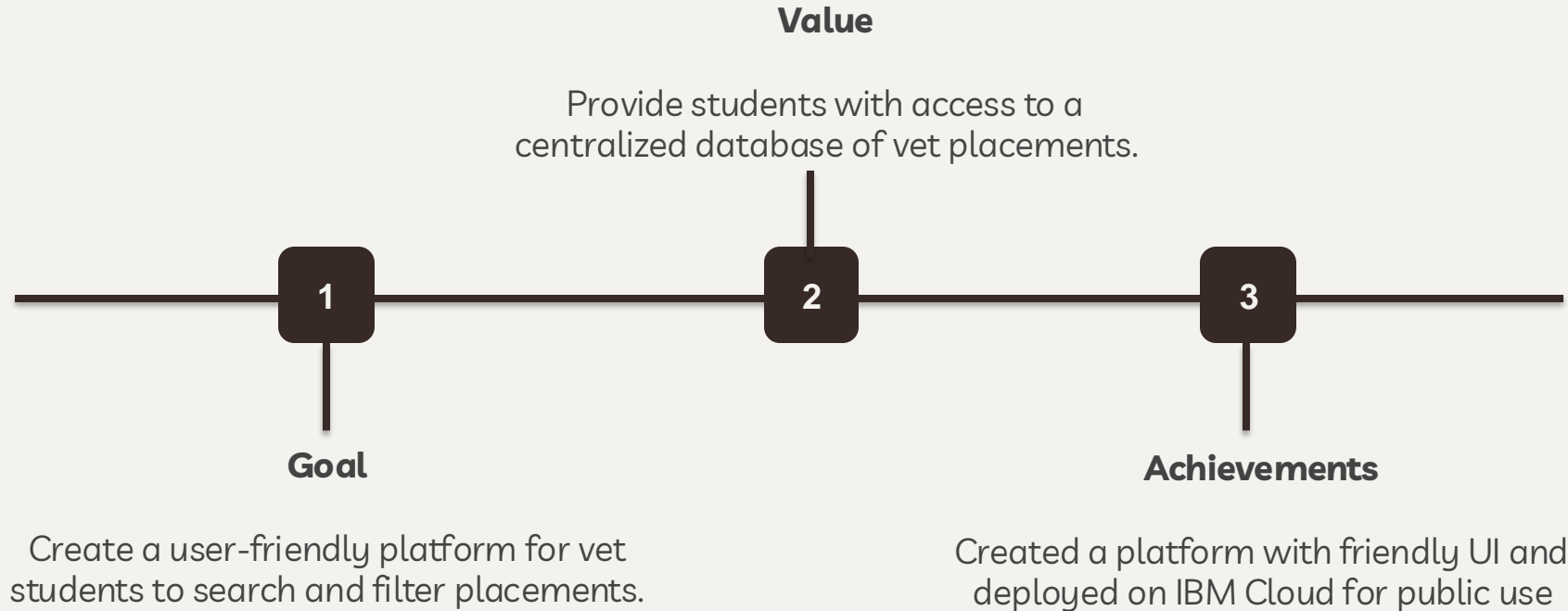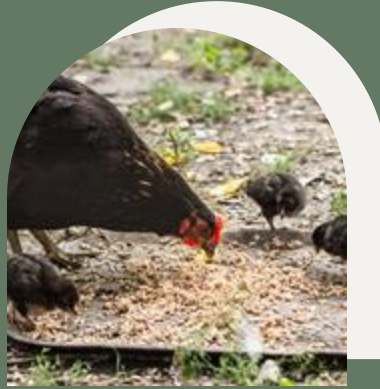
Table of contents

- Working for UoB School of Veterinary Medicine
- Current EMS organisation is difficult
- Outdated

Project Context

Vision

Value

Provide students with access to a
centralized database of vet placements.

1 **2** **3**

Goal

Create a user-friendly platform for vet
students to search and filter placements.

Achievements

Created a platform with friendly UI and
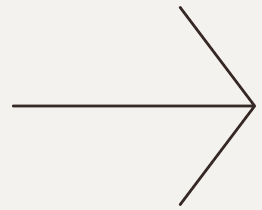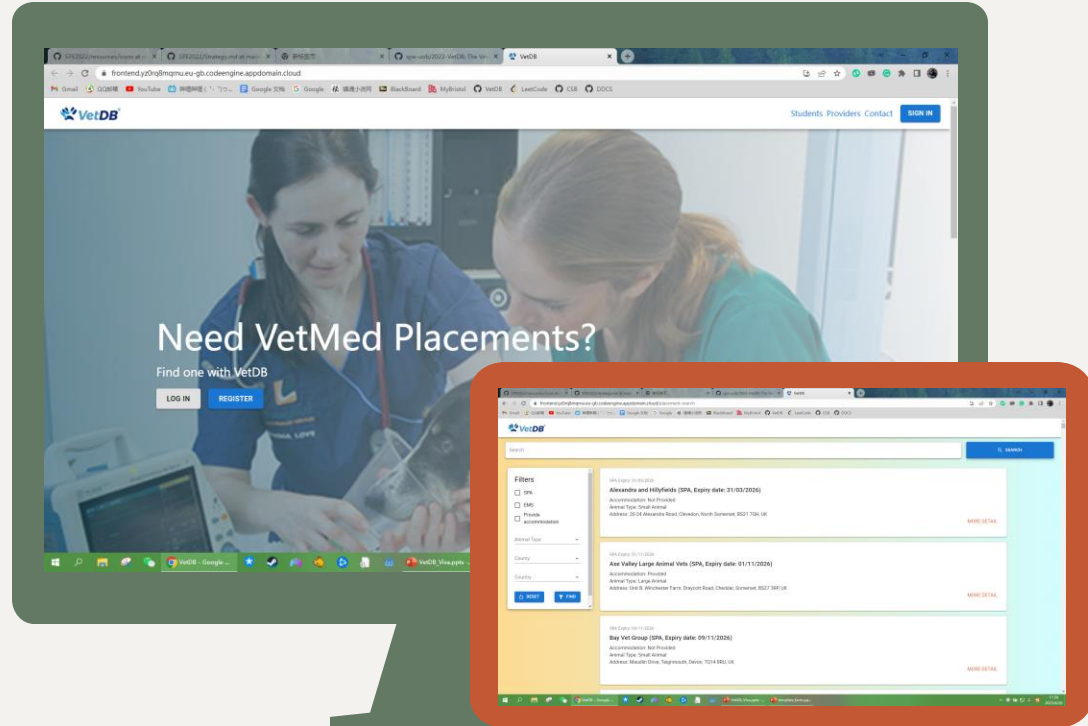deployed on IBM Cloud for public use

Product Evaluation

Demo

- **Landing**
- **Provider:** Provider Application
- **Forgot Password**
- **Student:** Student Dashboard
  - Search Page & Filter
  - Card Detail
- **Admin:** Admin Dashboard

Requirements

Login System

Login system for student and admin:

- Access control with session cookie
- Forgot password system

Application Form

Application form for provider to apply online:

- Multi-step application form on landing page
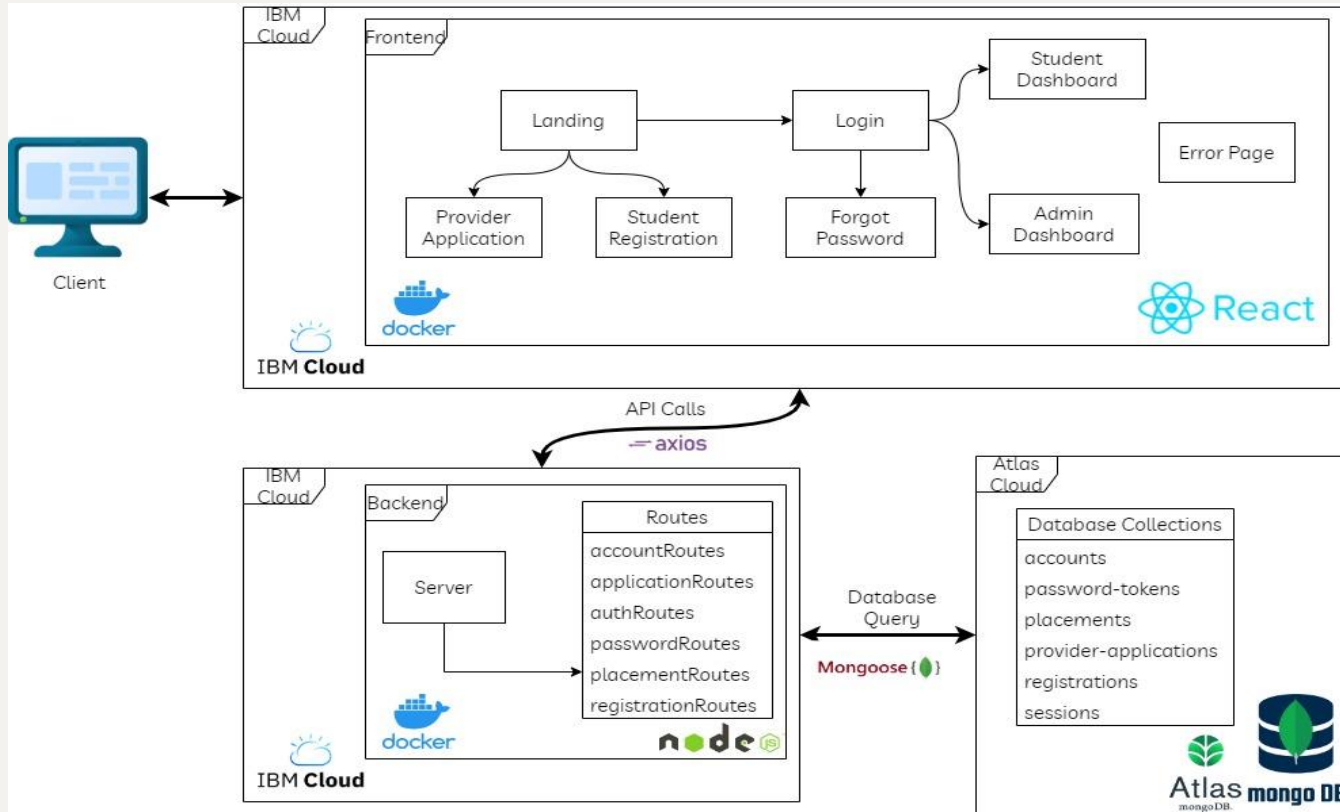- Admin can access and approve/ edit/ delete
- Auto assign expiry date

Placement Search

Student can search placement with filters:

- Filters: fetch from Database
- Admin: manage placements, filter expired placements

Architecture

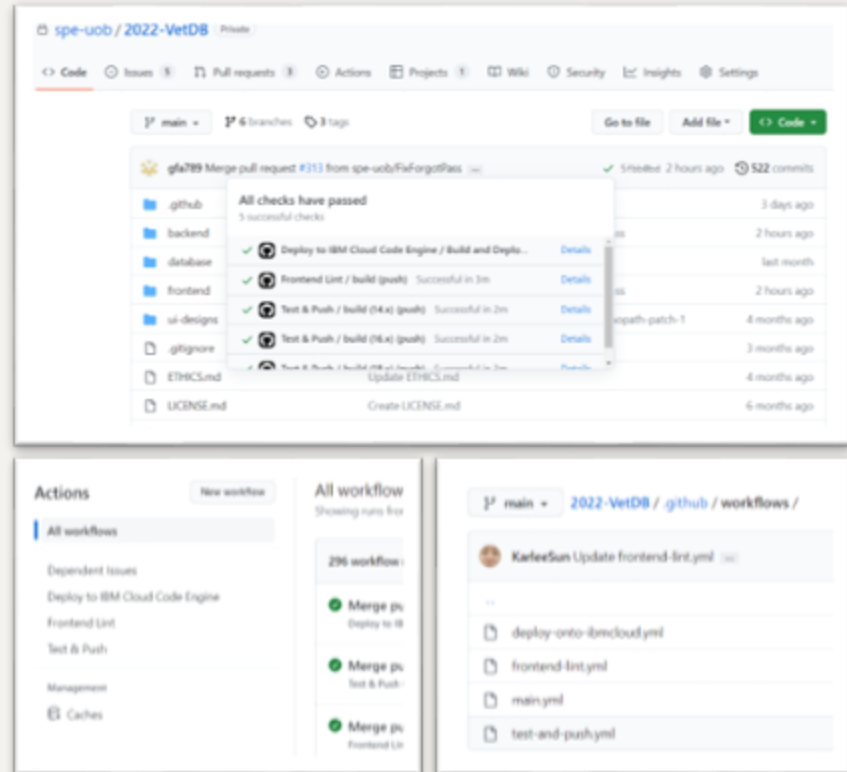# Development Strategies

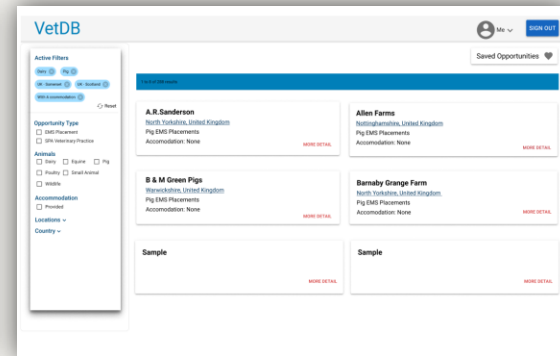Testing and CI

- Unit tests

- Linter

- Test for CI environment

CD

- Docker image

- IBM container registry

- IBM Code Engine

- GitHub workflow

Interface Design

Original Design with Figma
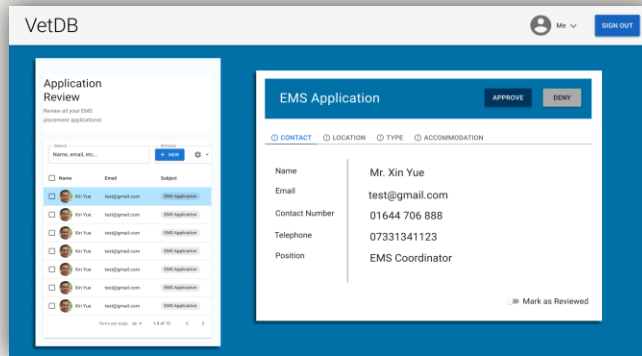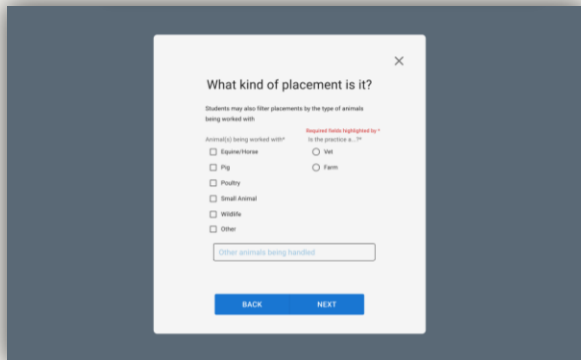
Current Interface
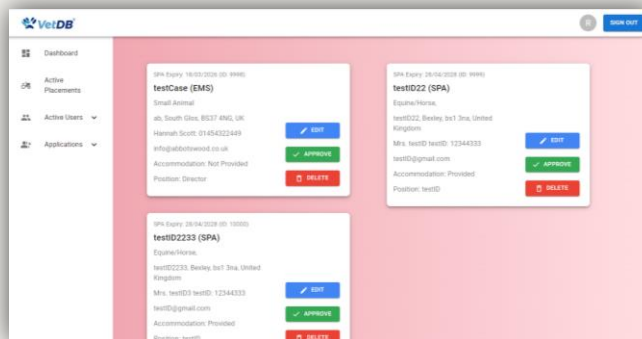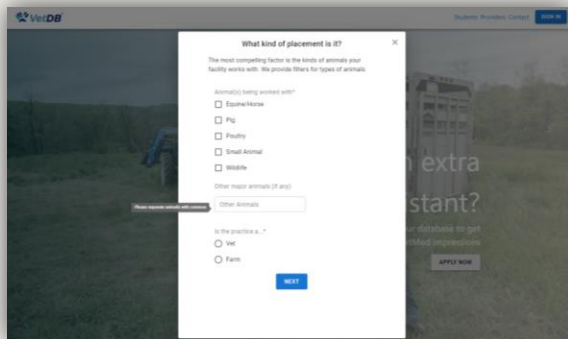
Acceptance Evaluation

Client feedback for MVP:

✓ Auto calculate expiry date for Vet and Farm

✓ User management system for Admin
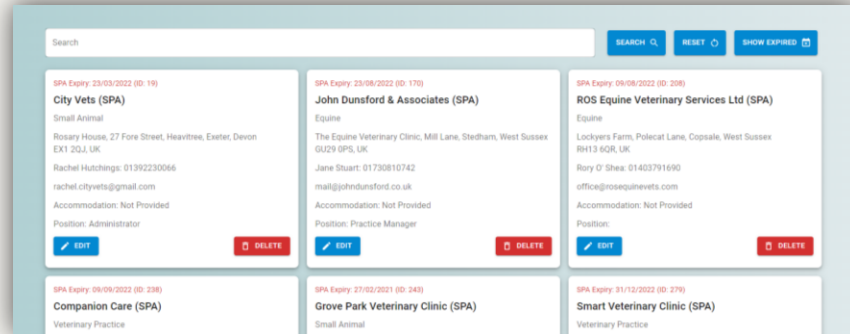
Client feedback for Beta:

✓ Traffic light system for SPA Expiry

✓ Embedded map for placement cards

User feedback

✓ Forgot-password system
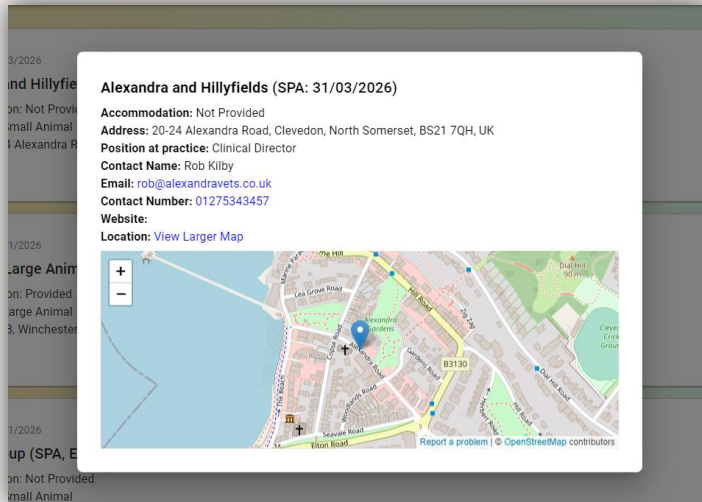
Development Process →
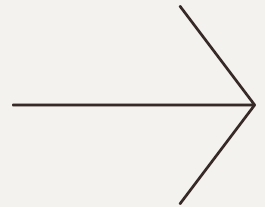
Project Management Tools

Agile

Meet -> plan -> Design ->
Develop -> Test -> Evaluate
-> ......

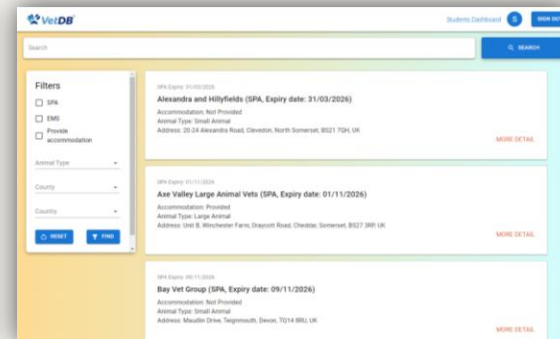### Gantt Chart

Mark on key dates and
milestones

Kanban

Visualize workflow,
optimize process efficiency

Teams

Teams Channel for
communication

Issue/PR Template

Standardise issue
reporting

Feature Request Issue Template

name	about	title	labels	assignees
Feature request	Suggest an idea for this project			

Is your feature request related to a problem? Please describe. A clear and concise description of what the problem is. Ex. I'm always frustrated when [...]

Describe the solution you'd like A clear and concise description of what you want to happen.

Describe alternatives you've considered A clear and concise description of any alternative solutions or features you've considered.

Additional context Add any other context or screenshots about the feature request here.

Bug Report Issue Template

name	about	title	labels	assignees
Bug report	Create a report to help us improve			

Describe the bug A clear and concise description of what the bug is.

To Reproduce Steps to reproduce the behavior:

1. Go to '...'
2. Click on '....'
3. Scroll down to '....'
4. See error

Expected behavior A clear and concise description of what you expected to happen.

Screenshots If applicable, add screenshots to help explain your problem.

Additional context Add any other context about the problem here.

PR Template

Description

Please include a summary of the implemented feature or change, state the issue it is linked to and how this will help us achieve our current milestone.

Useful other documentation includes before and after screenshots or video demonstrations.

Please also list any new dependencies needed to be installed for this change to work on other's devices.

Type of Change

Please insert an X on the relevant option.

- [ ] Bug fix (non-breaking change which fixes an issue)
- [ ] New feature (non-breaking change which adds functionality)
- [ ] Breaking change (fix or feature that would cause existing functionality to not work as expected)
- [ ] This change requires a documentation update

How Has This Been Tested?

If applicable, please state the tests you ran to verify your changes and its outcome. This can include a screenshot to complement * passing * CI jobs.

Development Process Strategies

Git & GitHub

- Review & conflict resolution
- 2-approval PR
- Simultaneous Dev
- CI testing, linting GA
- CD: Docker, IBM CR, CEng

Client Meetings

- Development Feedback
- Exact Requirements

Team Meetings

- Agile sprints
- Problem breakdown
- Strengthened Collaboration
- Reflection & Discussion

Challenges

Ethics Approval

Spent longer than expected

Client communication

Meetings sometimes inconsistent

Experience

Group had various levels of prior experience

IBM Cloud

Deployment issues and use of MySQL database

→

Improvements

Latest Tech

Instead of CRA, Vite or Next.js?

Web Optimisation

Static pages instead of live running (NGINX), Responsive Design

3rd Party Security

Use Auth0 (etc.) to handle security instead of us

Google Cloud

GCP is easier to navigate and understand

What We've Learned

Web Development

Continuous Integration & Deployment

Agile Development

Collaboration

Project Management

Thanks

Any questions?