



— PetHome —
Group 2

Objective

Allow people to adopt pets from shelters / community easily



Who We Are | Pets | Animals | Outreach | Resources | News | E-Services

Search

Getting a Pet

- Getting a Pet
- Animals allowed for sale
- What does it take to be a responsible pet owner?
- How to know if you would make a good pet owner
- Where to get a pet**
- Pets & Asthma

Caring for Your Pet

Licensing a Pet

Lost and Found Animals

Code of Animal Welfare (for pet owners)

Guidelines on Dog Rehoming, Adoption, Training and Rehabilitation

Adopting a pet

You can give a homeless animal a second chance through adoption instead of purchasing from a pet shop. Animal welfare groups usually have a wide variety of pets for adoption. These pets have been sterilised, and screened for good behaviour before matching them with potential pet owners. If there are adoption fees, they go towards paying for medical needs, such as sterilisation, deworming and vaccination, and the administrative cost of the adoption.

Taking home an older pet dog or cat, you can potentially avoid undesirable surprises since its personality, size, and appearance are assured. You could also be saving some time and effort on training, as an older pet may already be toilet-trained.

Contact the animal welfare groups below to find out more about their adoption procedures:

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- [Oasis Second Chance Animal Shelter](#)
- [Project LUNI](#)
- [Purely Adoptions](#)
- [SOSD](#)
- [Society for the Prevention of Cruelty to Animals](#)
- [Voices for Animals](#)



Screenshot of the current fragmented website (Animal & Veterinary Service (NParks)), Aug 2023

Objective



PetHome

Features



PetHome

- Easy to use
- See all pets with simple gestures
- Simplify the adoption process

**See how the pet fits into
YOUR house from your
app using AR**



Use Cases



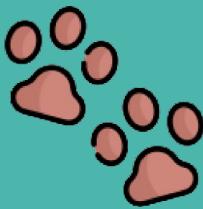
Mr John Wick
Lost his dog and is
looking for another
pet



Shelter : SPCA
Have too much pets
and are looking for
nice adopters



Vets: Vets for pets
Looking to provide vet
services for adopted
pets and required
adoption health checks



Review of Technologies

Design

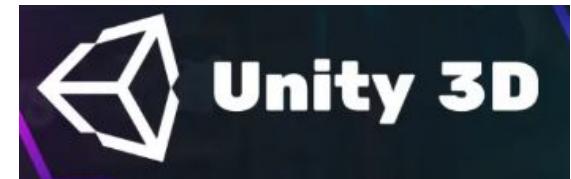
- Figma (UI/UX)

Tech Stack

- Android Studio (Java)
- Unity3D (ARCore + Lightship ARDK)
- Firebase (Database)

Other Tools

- Blender (3D model)
- Adobe Illustrator (Icon creation)
- Adobe Photoshop(Poster+Logo)





Project Management

TO DO 11 IN PROGRESS 6 DONE 15

Category	Description	Status	Progress (%)
BACK-END CODING	[AR] Experiment with linking app and displaying different model AR_Module	IN PROGRESS	60%
XMLPages	Code out page to collect personal info XMLPages	IN PROGRESS	50%
XMLPages	Code out Edit Profile Page XMLPages	IN PROGRESS	40%
Backend	Complete logic for edit profile Backend	IN PROGRESS	30%
QA	Test validation for entire signin flow QA	IN PROGRESS	20%
UI/UX	Change profile page to match new UI XMLPages	IN PROGRESS	10%
UI/UX	Add picture UX UI/UX	IN PROGRESS	10%
XMLPages	Link confirm button in make login to display confirmation popups/messsage, then link it back to base application XMLPages	IN PROGRESS	10%
UI/UX	Mak swipe page only show unliked pets	PENDING	0%

Design a flow on Figma for adding pet for adoption (just a rough one that matches our overall theme since we just need show that it is the flow of the application) UI/UX

Find out how to mirror mobile screen onto pc for demo. There is a android studio extension to do it. Misc

Design a page to collect

AUG SEP OCT NOV

- KAN-1 app ideation
- KAN-17 Slides/Report
- KAN-14 Features and Processes
- KAN-13 App Design mockup
- KAN-16 AR
- KAN-27 Back-end Coding

Commits on Oct 11, 2023

- Amended Profile page and edited swipe page to take in current petID
- Merge branch 'main' of https://github.com/mingzh087/pethome
- Added AR button
- Merge remote-tracking branch 'origin/main'
- Edit Profile UI updated
- Implemented Search liked page

Commits on Oct 10, 2023

- Fixing Userpage duplicating entities
- Solved sort filter bugs
- Fixing some bugs
- remove liked sort
- Merge branch 'main' of https://github.com/mingzh087/pethome
- updates

Commits on Oct 9, 2023

- Sort Liked Page

Commits on Oct 7, 2023

- more data
- filter done
- Merge branch 'main' of https://github.com/mingzh087/pethome
- Merge branch 'main' of https://github.com/mingzh087/pethome
- DouglasLight goes to webpage

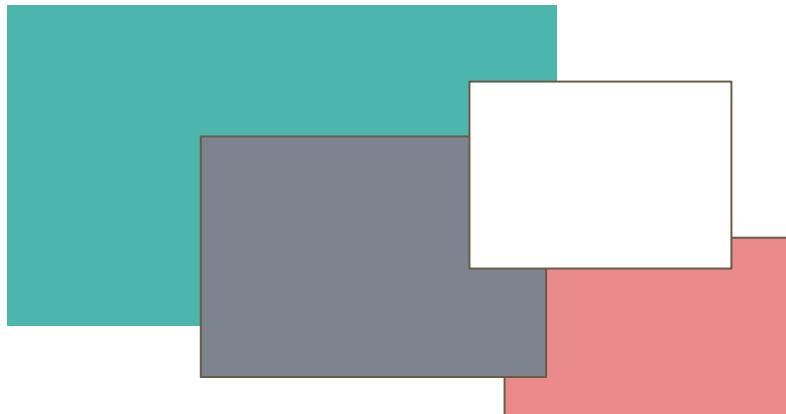
Commits on Oct 6, 2023

- Related

JIRA & Github



Font and Theme



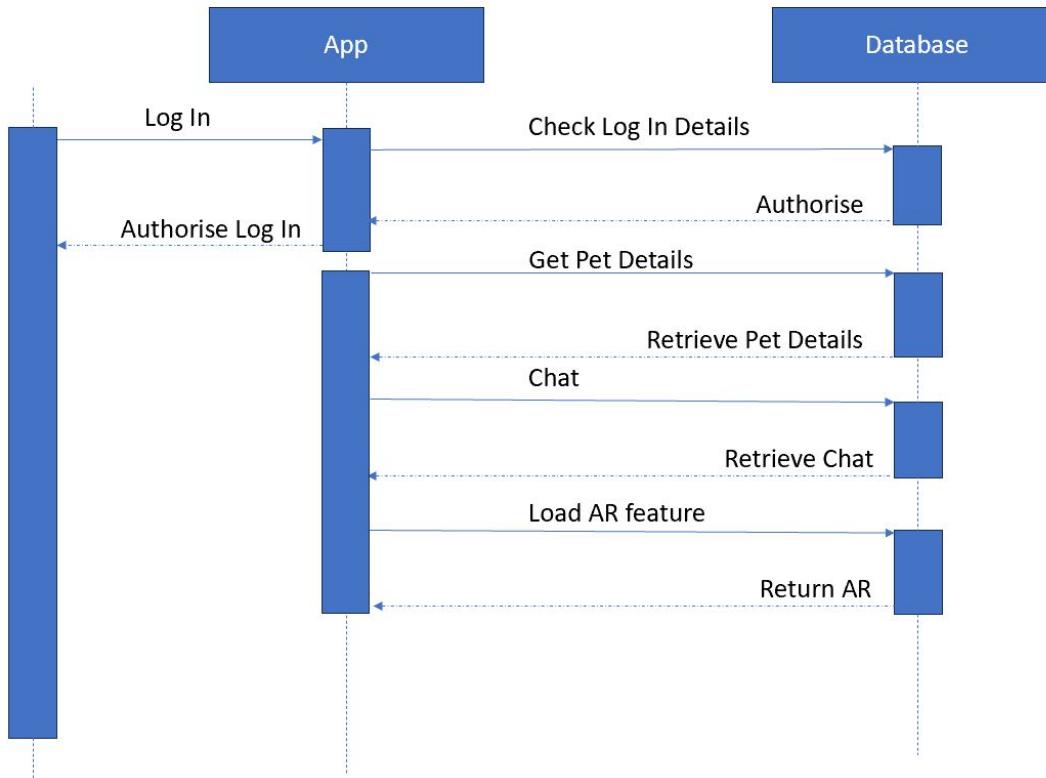
Crimson Pro Regular

Crimson Pro Semi-Bold

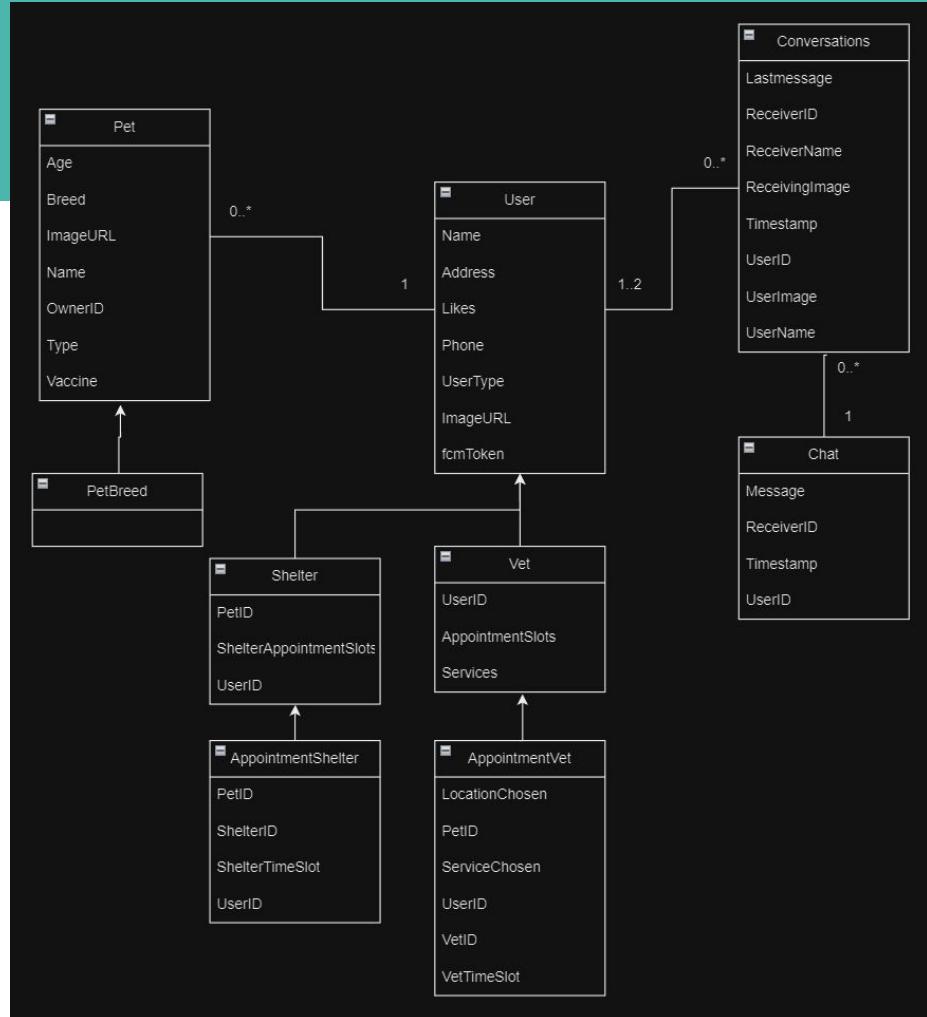
Crimson Pro Light

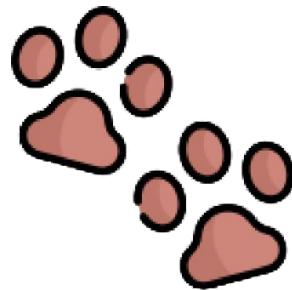


Sequence Diagram



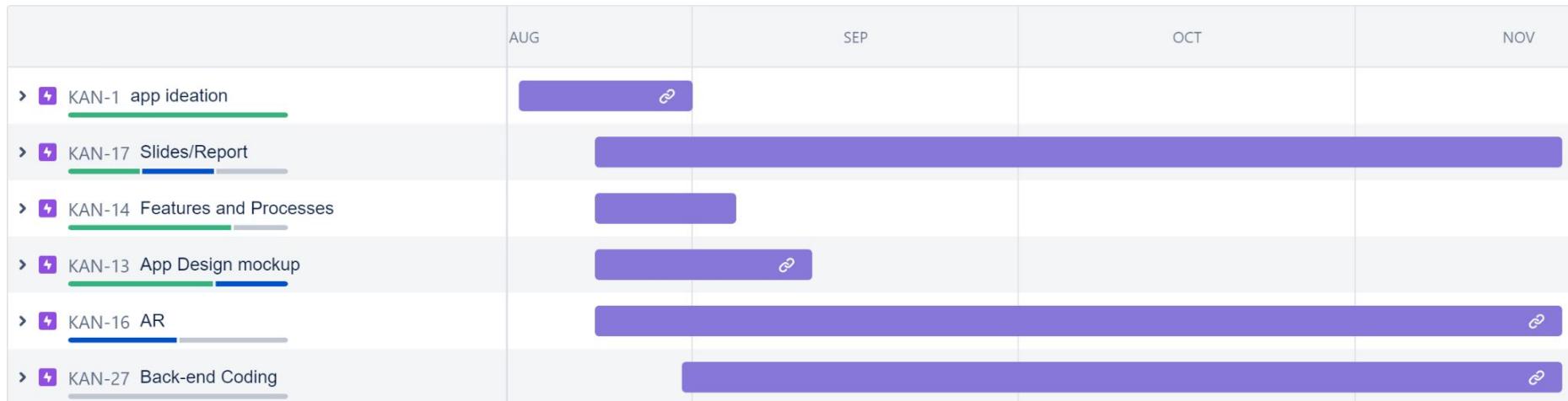
Database Schema





— Thank you! —

Project Timeline



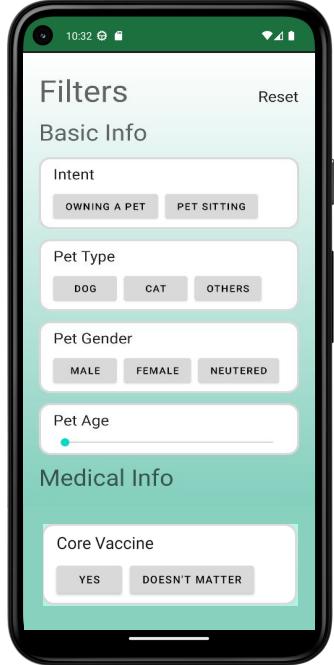
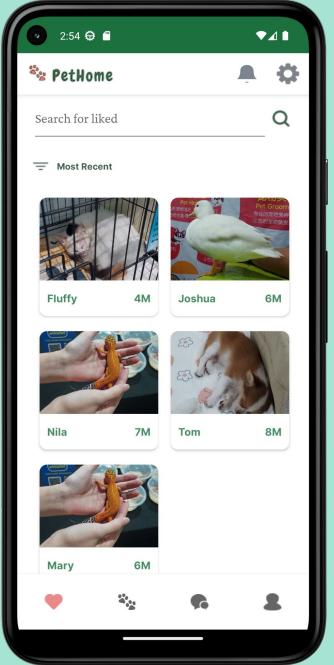
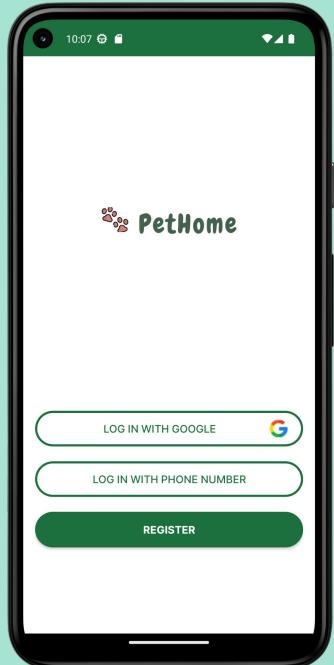
Features

- User profile - adopters to have an account to look through catalogue
- Image upload
- Swipe left/right mechanism - like and dislike pets
- **AR functions**
 - Chat features
 - Appointment function
 - Foster care - providing a temporary home to pets

Why AR?

- 1. Engagement Beyond the Screen**
 - a. Offers an immersive and interactive experience
- 2. Stand Out in a Crowded Market**
 - a. Offers a unique and innovative feature that attracts users
 - b. Creates a memorable and shareable experience, increasing app visibility
- 3. Realistic Previews**
 - a. Provide a lifelike preview of pets in their future homes
- 4. Reducing Returns (abandoning pets)**
 - a. Boosts buyer confidence and informed decisions.
 - b. Reduce returns with virtual try-ons and product demos
- 5. Incredible Accessibility**
 - a. Appeal to users and businesses for seamless engagement.

PetHome App



AR Progress

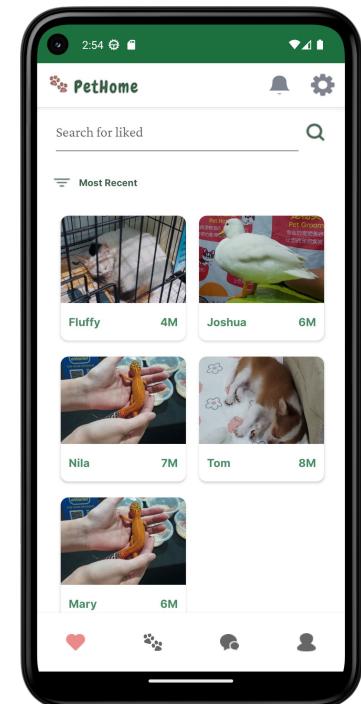
Design vs Prototype



Landing Page



Like Page



Design vs Prototype



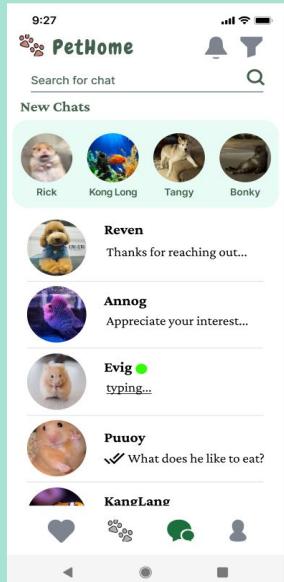
Home Page



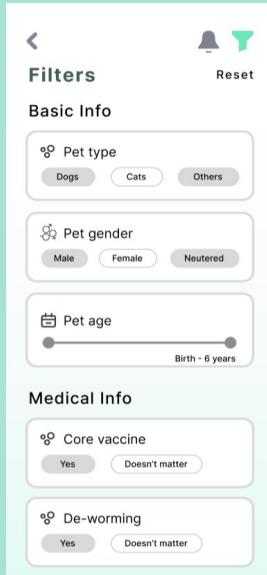
Profile Page



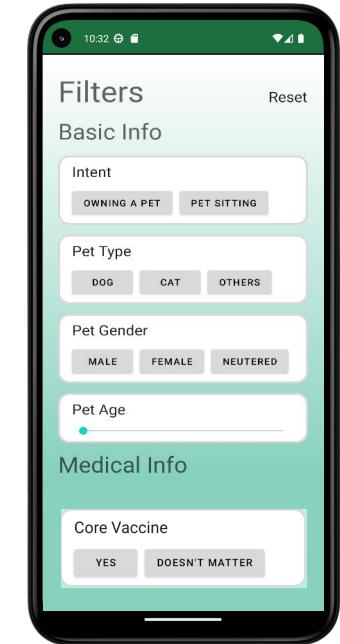
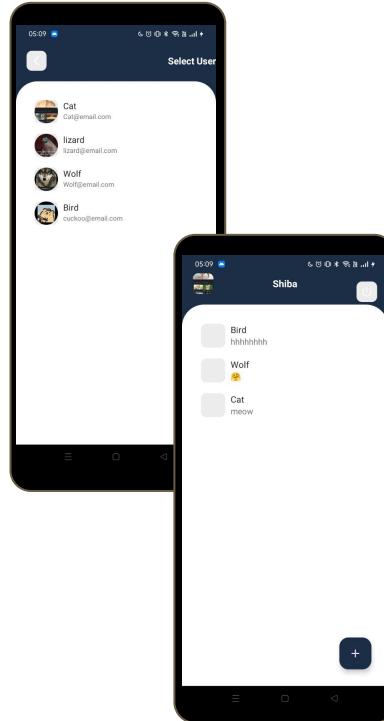
Design vs Prototype



Chat Page

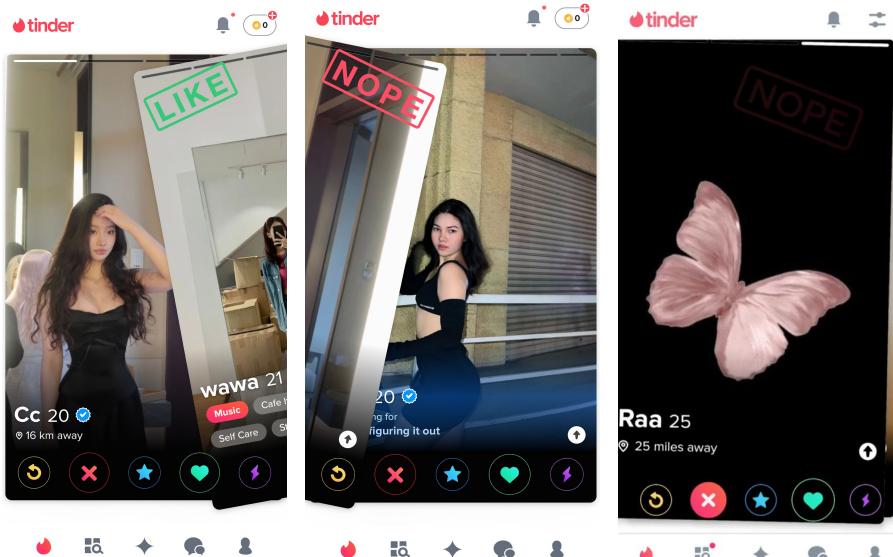


Filter Page



Existing Apps

Tinder



Pokemon Go



- Simple Navigation Gestures

- Augmented Reality (AR)

Use cases

Name	Animal Shelters	Name	Pet Owners
Description	A place where stray, lost and abandoned animals are housed	Description	Those who are looking for pets to own
Actors	Pet adopters/owners, animals, pet shelters' workers	Actors	Pet adopters/owners, animals, pet shelters' workers
Viewpoints	Providing pets for adoption	Viewpoints	Adopting pets/Putting pets up for adoption
Primary scenario	<ol style="list-style-type: none">1. Contact potential pet owners2. Posting pets available for adoption3. Arrangement for face-to-face meetups with the interested pet owner4. Home visits and trial runs5. Finalise adoption form and fee.	Primary scenario	<ol style="list-style-type: none">1. Contact animal shelter2. Identify pet to adopt3. Face-to-face meetups with your pets-to-be4. Home visits and trial runs5. Finalise adoption form and fee.

Tech Stack

Frontend	XML
Backend	Java, ARCore, Firebase
Database	Firebase, Animal shelter APIs
Authentication	Firebase
Other Utility Softwares/Platforms	Jira, Github, Figma, Unity, Blender, Postman, DrawIO

Database

More in Google Cloud

pethome-24dfc > Pet > Pet1

+ Start collection

AppointmentShelter

AppointmentVet

Pet >

PetBreed

Shelter

User

Vet

+ Add document

Pet1 >

+ Start collection

+ Add field

AR: null

Age: 6

Gender: "Female"

PetBreed: "Golden Retriever"

PetName: "Mary"

- PhotoID

0 null

UserID: "User2"

Vaccine: false

More in Google Cloud

pethome-24dfc > Vet > Vet1

+ Start collection

AppointmentShelter

AppointmentVet

Pet

PetBreed

Shelter

User

Vet >

+ Add document

Vet1 >

+ Start collection

+ Add field

UserID: "User3"

- VetAppointmentSlots

0 1

1 1

2 1

VetServices: null

Database

Authentication

Users Sign-in method Templates Usage Settings

Extensions NEW



Search by email address, phone number, or user UID

Add user



Identifier	Providers	Created ↓	Signed In	User UID
jilll@yahoo.com	✉	Sep 6, 2023	Sep 6, 2023	sxnRMiTlmxV6ssUVspl5eukWWe73
jack@gmail.com	✉	Sep 6, 2023	Sep 6, 2023	9E2lsce41VU0wn3x3hej2HGuOxj2

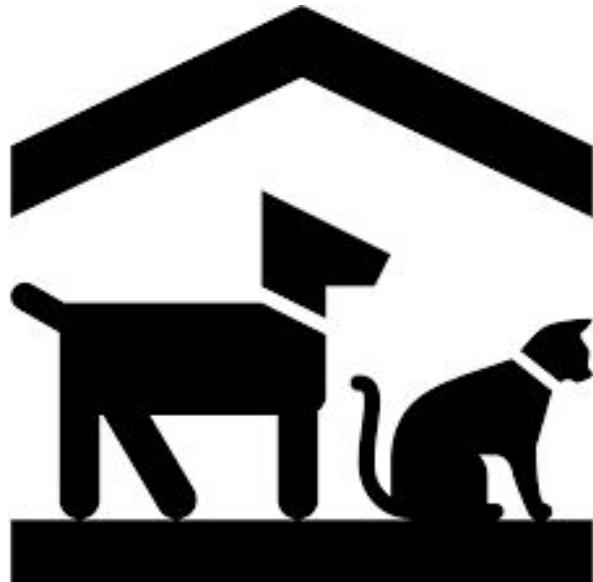
Rows per page:

50 ▾

1 – 2 of 2



Target Audience



Animal shelters



Potential pet owners /
Pet lovers

Problem Statement (Slide 2)

20000

animals available for adoption
(Source: Straits Times, 2020)

10000

Stray / abandoned pets
(Source: CNA, 2020)

50

animal shelters
(Source: SPCA, 2020)

“Troublesome”

Most potential pet owners finds it to adopt a pet, easier to buy a pet
(Source: “Trust me bro”, 2023)

Problem Statement (Slide 3)



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- [Voices for Animals](#)



Society For the Prevention of Cruelty to Animals (SPCA)

Dear Friend,

Thank you for your interest in adopting an animal!

All animals up for adoption (including fees) are listed here:

<https://spca.org.sg/services/adoption/>. If you can't find a suitable companion at the time of viewing, please revisit our site as we update frequently.

All adoption viewings and visits to the SPCA's adoption centre are strictly by appointment only. Slots are released 7 days (168 hours) in advance.

As there are a limited number of adoption appointment slots, we urge visitors who are not looking to adopt to not make an appointment. If you are unable to make it for your appointment, please cancel the appointment booking 24 to 48 hours to free the slot for others.

Screenshots of current website which is fragmented (Website taken Animal & Veterinary Service (NParks), Aug 2023)

Problem Statement

- Number on amount of shelters
- Number of pets in SPCA

[More people in Singapore interested in adopting or fostering pets during Covid-19 pandemic | The Straits Times](#)

[Best Shelters Adopt a Puppy in Singapore: Rehoming Rescue Dogs \(sassymamasg.com\)](#)

[Pet Adoption in Singapore: Adoption Centres & Fees \[+ FAQs\] \(petloverscentre.com\)](#)

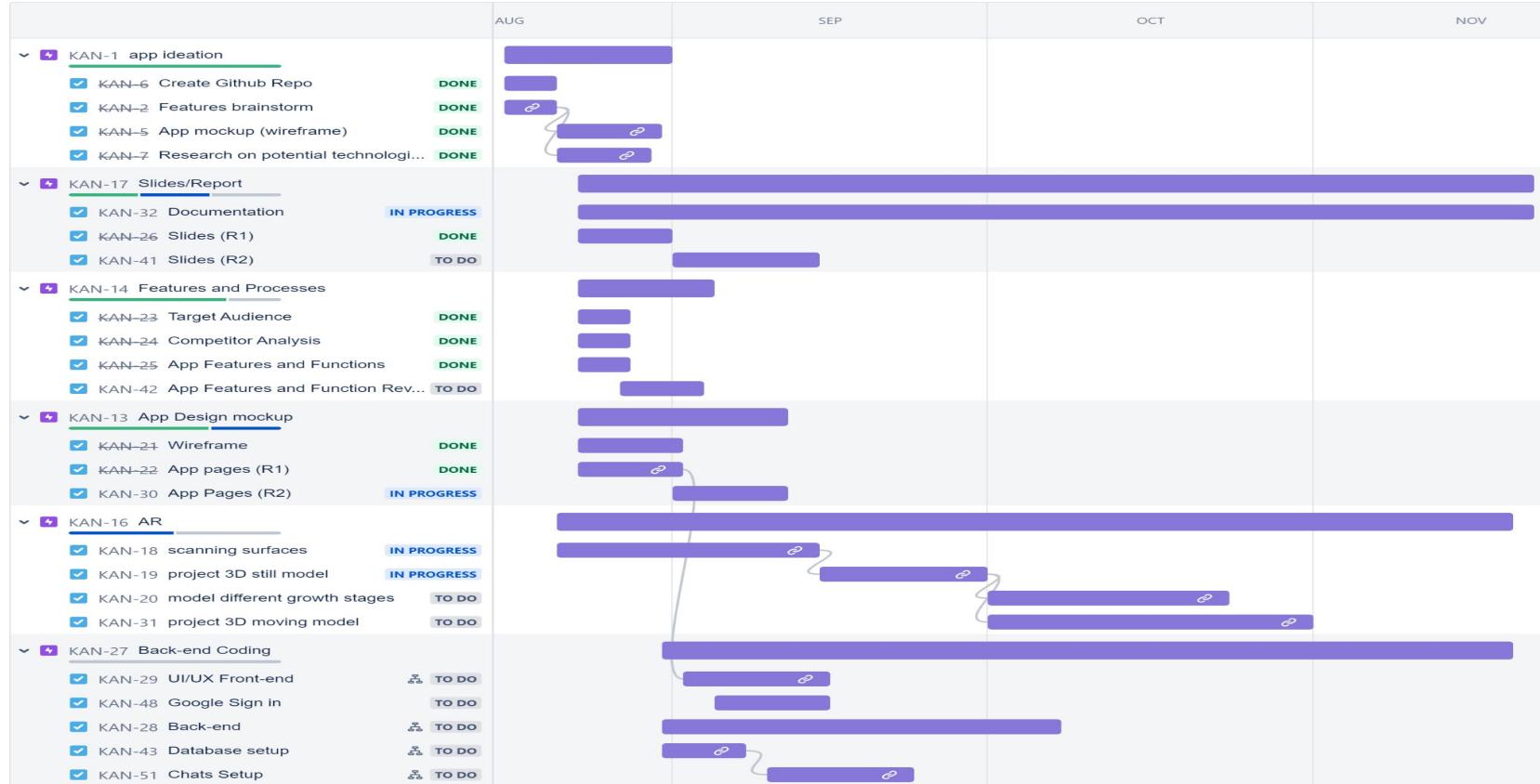
[The Big Read: 'Part of the family' — the rising status of pets among households and what it means for society - TODAY \(todayonline.com\)](#)

[Singapore: number of dogs in SPCA shelter 2020 | Statista](#)

[Where to get a pet \(nparks.gov.sg\)](#)

[Guide to pet adoption in Singapore for dogs, cats & more | Honeycombers \(thehoneycombers.com\)](#)

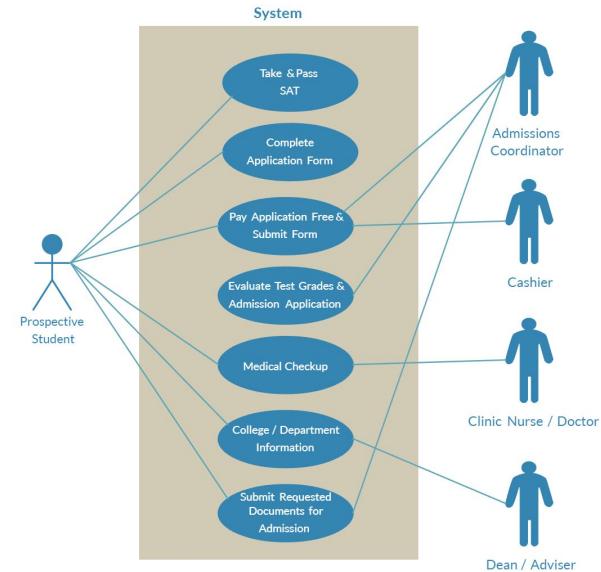
Project Timeline (Expanded)



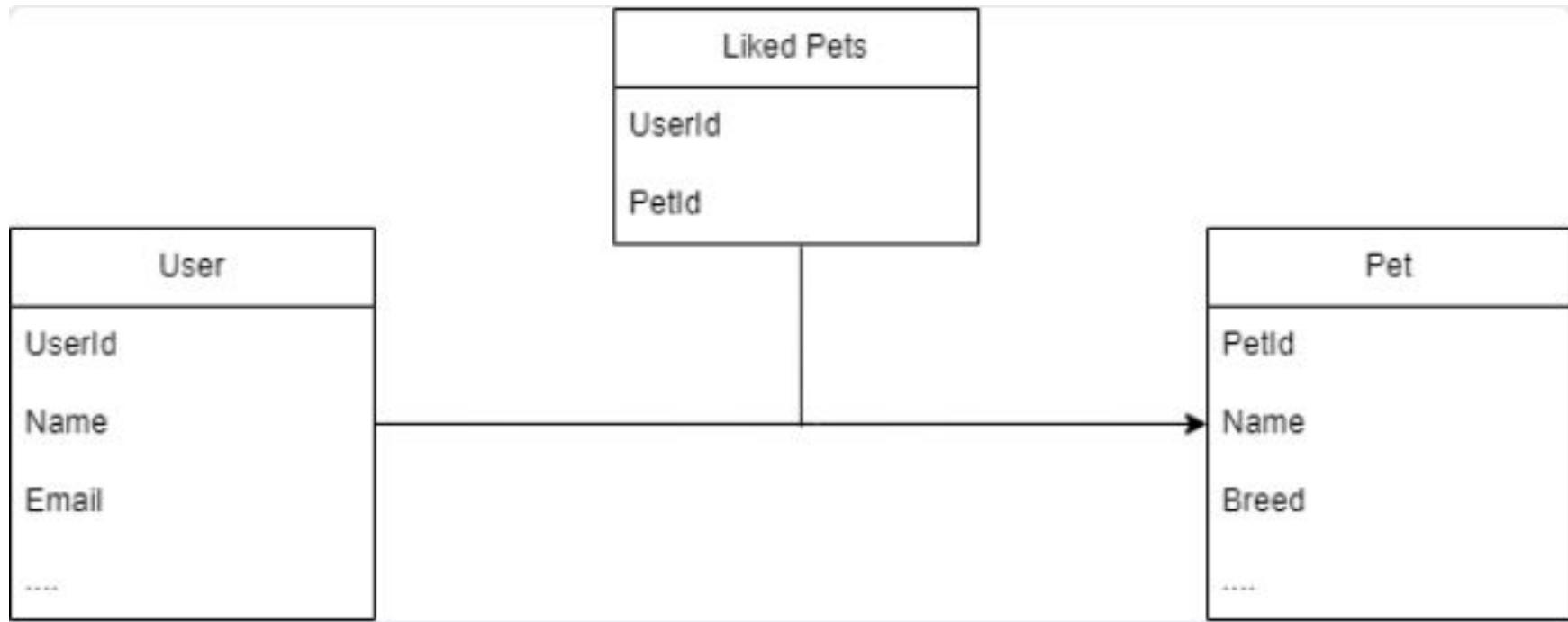
Use cases

Animal Shelters

Use case	Description
Name	Payment of salary.
Description	It calculates the salaries for all the employees of the institution.
Actors	Head of accounting dept., accounting assistant.
Viewpoints	Accounting department.
Primary scenario	1. Get info about employees; 2. Calculate salaries; 3. Print cheque.
Includes	Cheque printing.
NFRs	Security, performance.



Use cases



App mockup reference (slide 12)



Pet Profile

FOR ADOPTION

Nico (K)

Profile	6 Months, Male
Dog	Mixed Breed
Health	Healthy, Not Neutered, Not Vaccinated, Dewormed
Traits	Medium Size, Short Fur
Fee	Free
Location	Puchong, Selangor
Posted	12 Apr 2023 (Updated: 26 Aug)

**• Four siblings in search of loving homes
• Cute and healthy bunch
• Adorable pups deserve forever families**

Eng BM 中文 PetGPT Nibbles

Nico and his 3 other siblings are looking for homes. They are all very cute and healthy.

Shop & Help Animals

Pets Lost Places Learn Updates Account

This is a detailed view of a pet profile for Nico (K). It includes a summary section with basic details like age, gender, breed, and health status, followed by a list of traits and a location. Below this is a callout box highlighting the availability of four siblings. At the bottom, there's a summary sentence about Nico and his siblings, along with navigation links for shopping and account management.