

Animal Welfare-Based Mobile Application System for Kelab Pencinta Haiwan Universiti Utara Malaysia

PETHERO KPH UUM



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A21EM0207

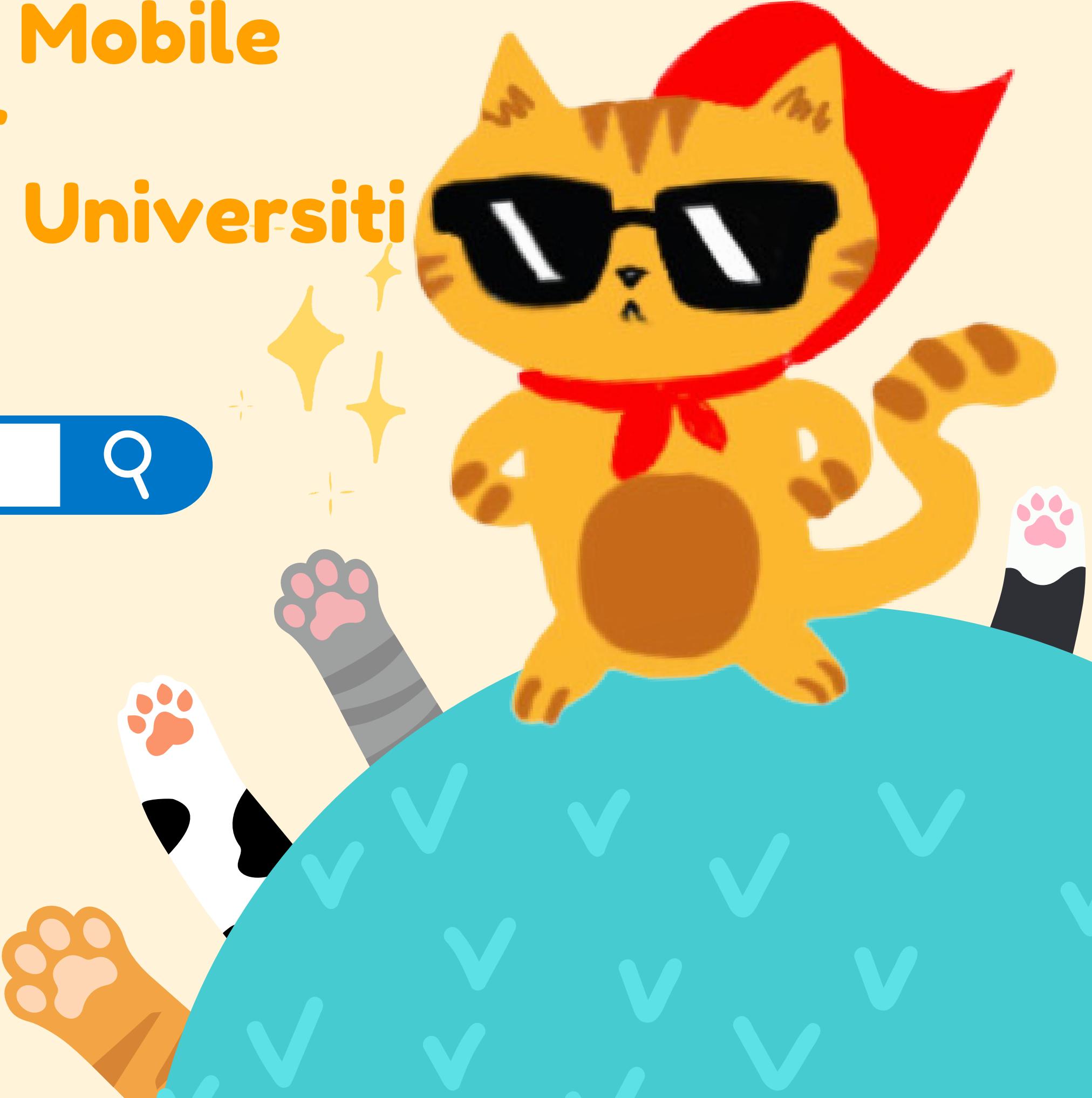
TS. MARINA BINTI MD ARSHAD

<https://youtu.be/S79TD39rfIA>

(Presentation Video)

<https://youtu.be/7EeCQ1SNyMY>

(Reflection Video)



Introduction

Stray animals issues have become a significant problem around the globe



RESPONSIBILITY

TO NOT NEGLECTING
THEIR WELFARE IS VITAL
PART OF BEING HUMANE
AND EMPATHETIC



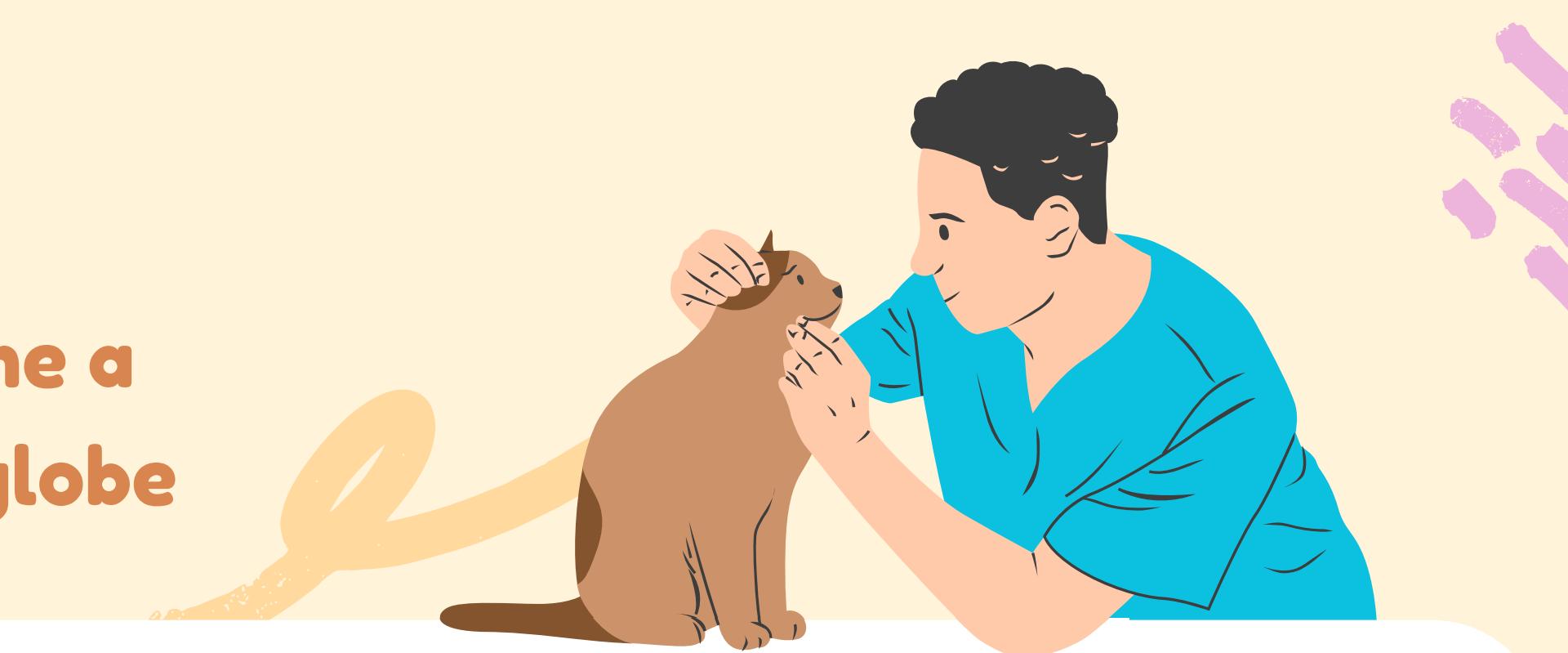
INITIATIVES

LOCAL ORGANIZATIONS
PLAY CRUCIAL ROLE TO
ENSURE THE WELL-BEING
OF THESE ANIMALS



THE NEED FOR SUPPORT

NEED TO STREAMLINE
MANAGEMENT, ENHANCE
VISIBILITY & OPTIMISE
RESOURCES



Problems & Solutions

Transparency
Issues

Donation progress
tracking,
Animal's Updates

Inefficient
Information
Dissemination

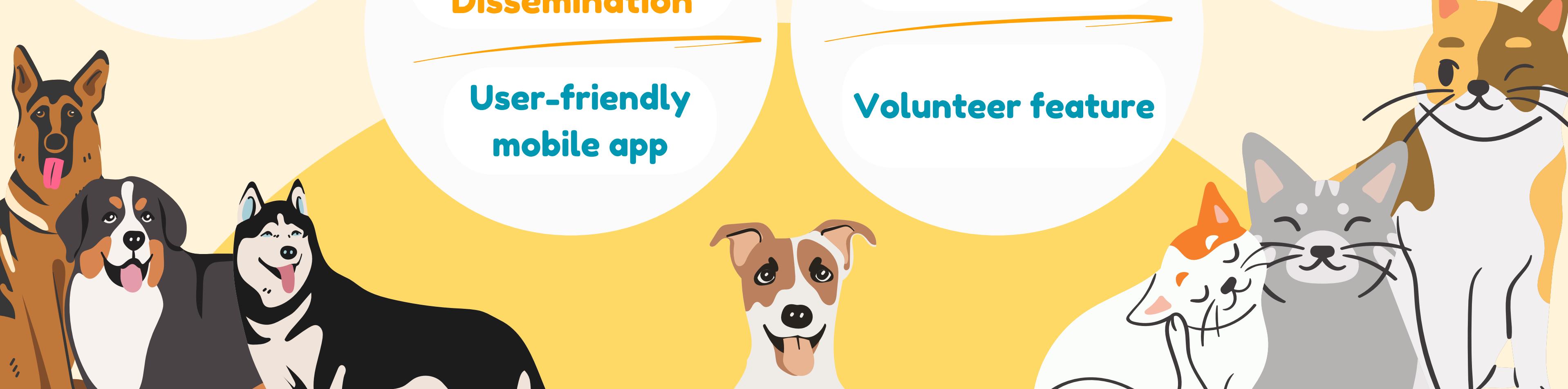
User-friendly
mobile app

Lack of Volunteer
Engagement

Volunteer feature

Financial
Strain

Donation
feature



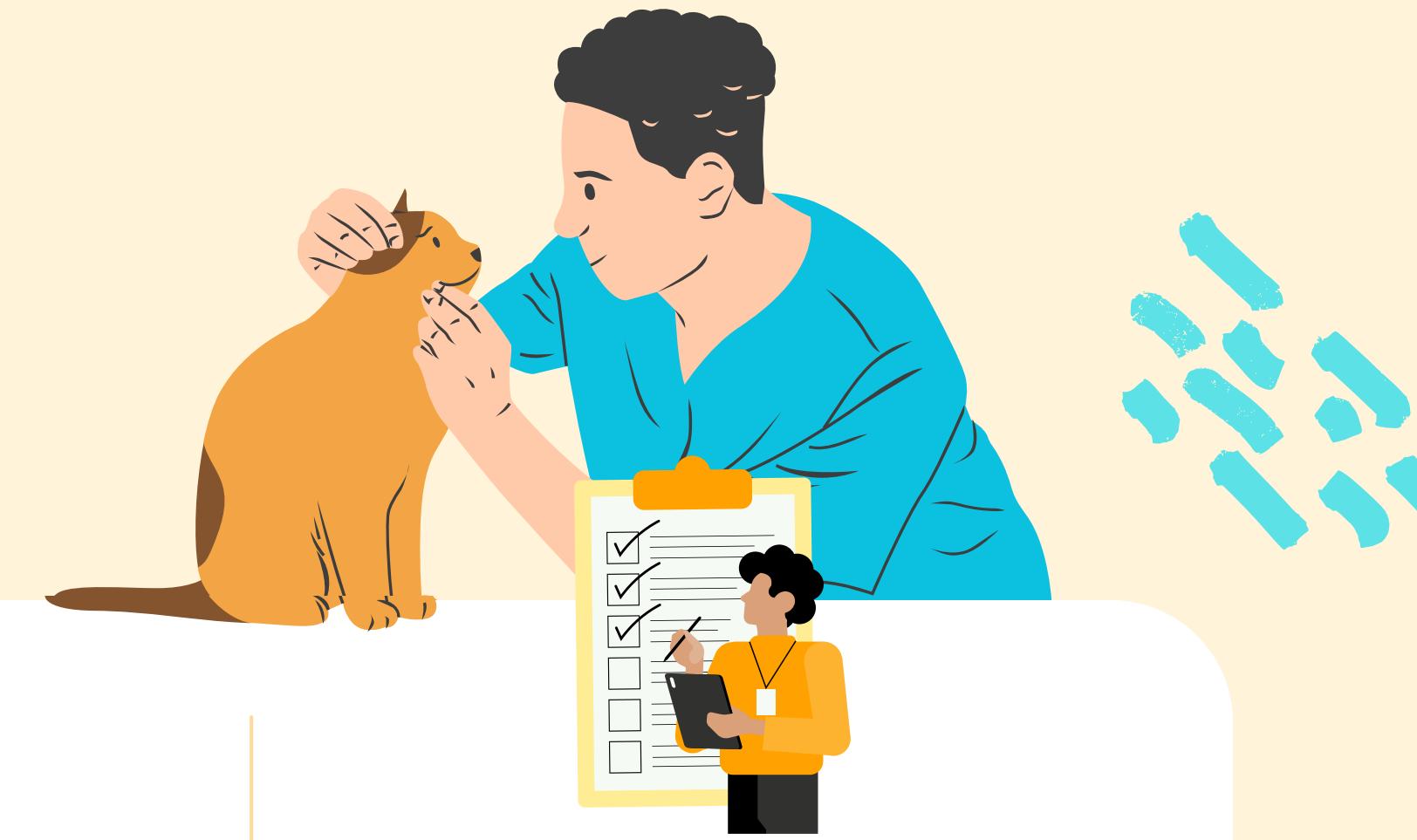
Objectives



**Review
Current
Inefficiencies**



**Develop a
Centralized
Application**



**Test and
Evaluate
Effectiveness**

Scopes



Enable donations,
adoption, volunteer
recruitment, animal
updates, posting

Allow non-members
to donate, adopt,
volunteer, and submit
report

Focus on KPH
UUM, including
students and
staff

Only KPH
UUM can
upload and
verify vet
bills and
report

Focus
exclusively
on stray
animals



Project Aim



Develop a centralized mobile app for KPH UUM to efficiently manage welfare initiatives, promote community engagement, and ensure transparent and trusted volunteering and donation processes for sustainable stray animal care.



Case Study KPH UUM



Established under
Universiti Utara
Malaysia

Founded
2012

Registered
2023

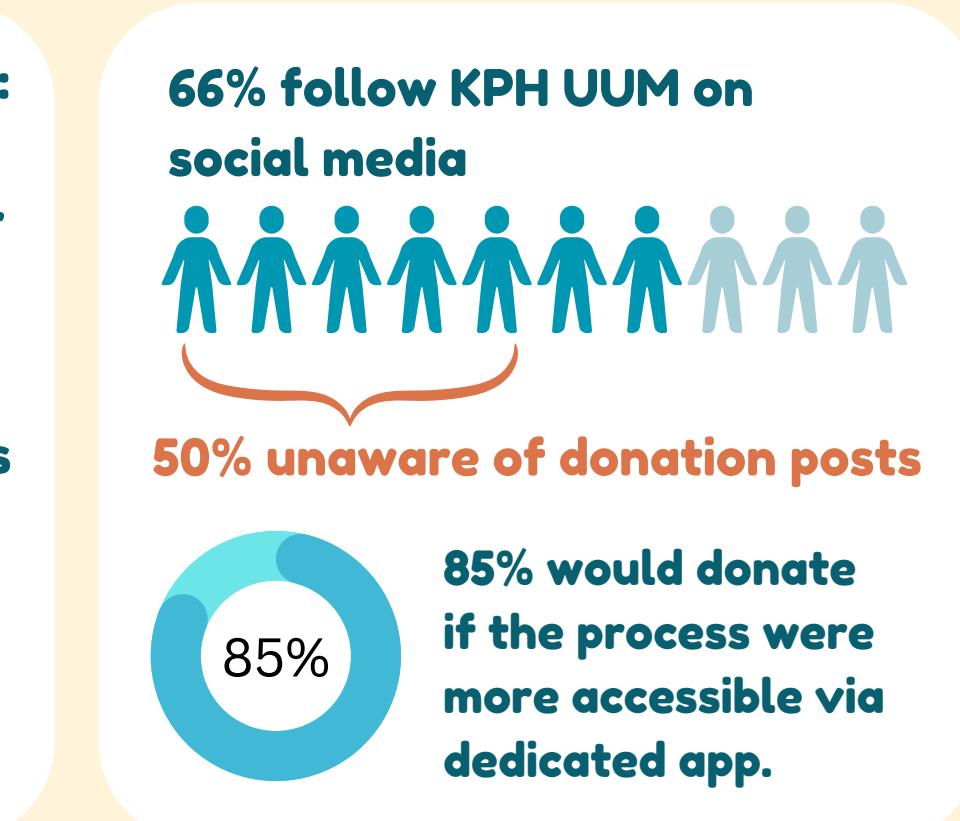
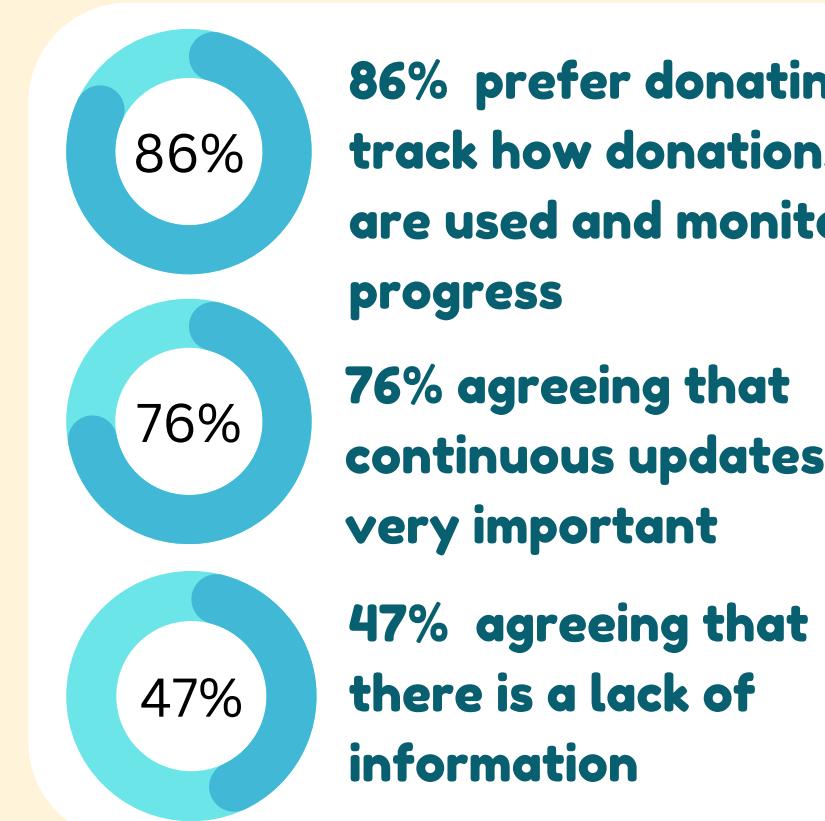
FOCUS Stray Animals
Welfare

20 committee

500 volunteers

7 active bureaus
Cat Feeding, Protocol, Rescue
Team, Public Relations, Shelter,
Media, Entrepreneurship

Led by President Muhammad
Najmi Zaim bin Md Zohir



↑ Key Insights

Manual Operation of Kelab Pencinta Haiwan Universiti Utara Malaysia

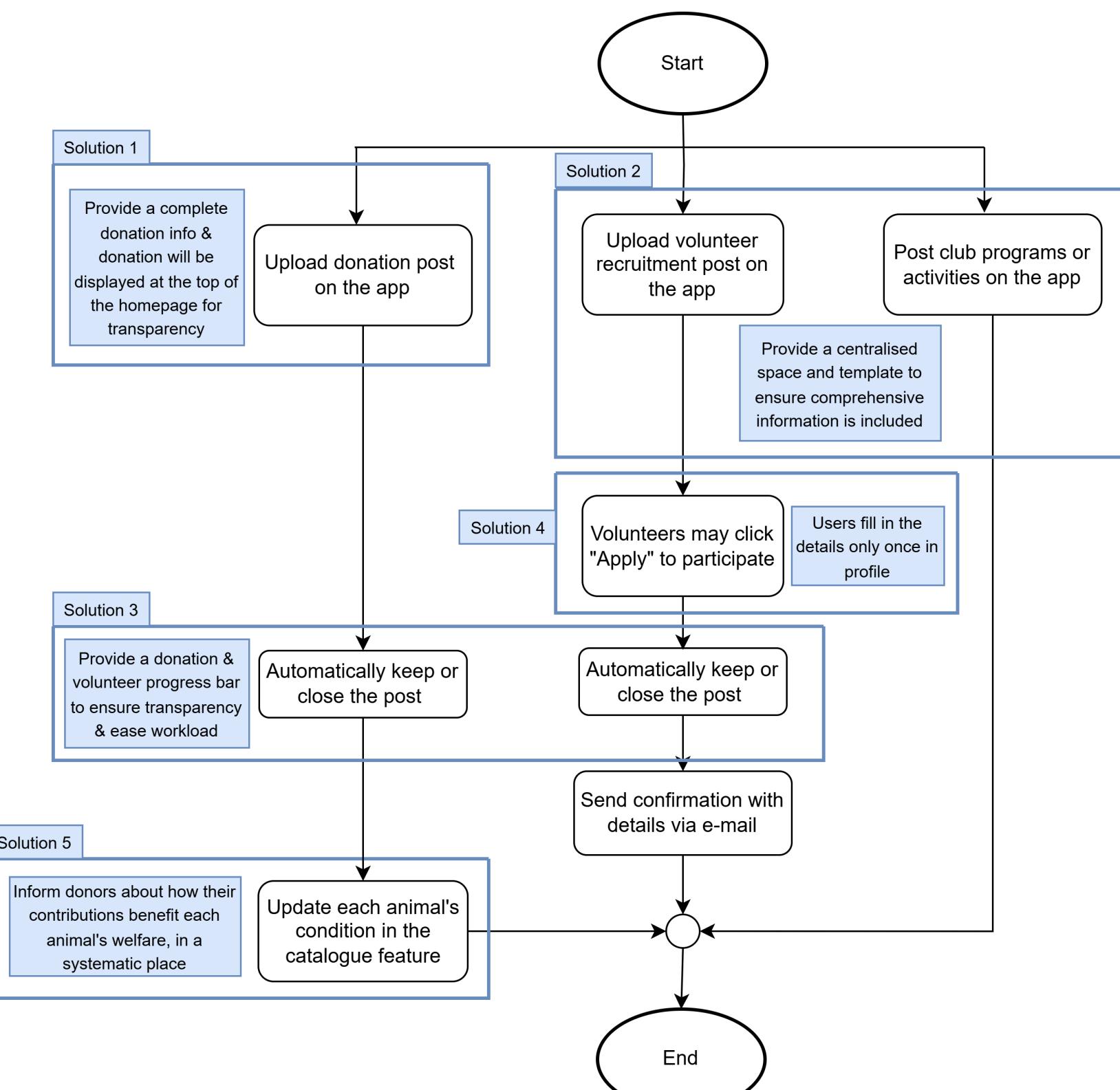
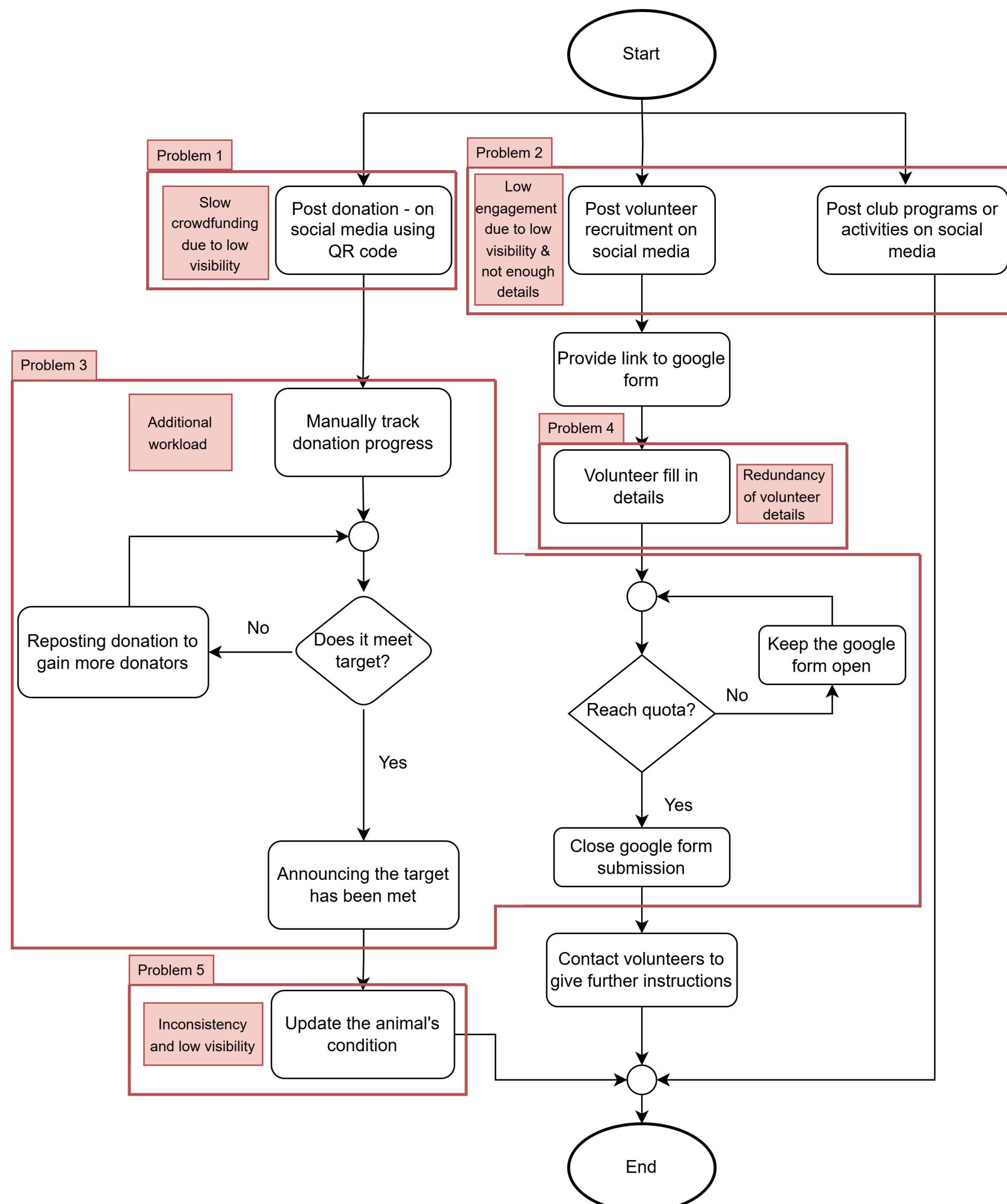
Donation

Progress
Manual
Tracking

Animal
Updates

Advertise
Programs

Volunteer
Recruitment



Comparison with existing systems

Animal Welfare Application/ Functionnalities	SRMS	PAW	SayangPet.my	Pethero KPH UUM
Application Type	Web Application	Mobile Application	Web Application & Mobile Application	Mobile Application
Donation	Yes	Yes	Yes	Yes
Updates on Rescued Animals	No	No	No	Yes
Volunteer	Yes	No	No	Yes
Report	Yes	No	No	Yes
News Posting	No	No	No	Yes
Fostering	Yes	No	No	Yes (Included in Volunteer)
Adoption	Yes	No	Yes	Yes
Lost and found	No	No	Yes	No



Application System / Donation Features	SRMS	PAW	SayangPet.my	Pethero KPH UUM
Progress Tracking	No	Yes	Yes	Yes
Details of Rescued Animal	No	Yes	No	Yes
Payment Gateway Integration	No	Yes	Yes	Yes
Separated Section for Vet Bills	No	No	No	Yes

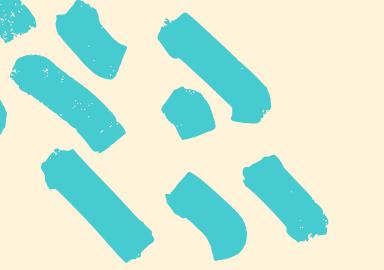
Application System / Volunteering Features	SRMS	Pethero KPH UUM
Basic Details	Yes	Yes
Friendly User Interface	No	Yes
Wait for Admin Approval	Yes	No
Volunteer Capacity Update	Yes	Yes
Task and Information Details	No	Yes

Application System / Report Features	SRMS	Pethero KPH UUM
Report Status	Yes	No
Report on Animal	Yes	Yes
Report on Animal Updates	No	Yes



Technology used

React Native



Expo



Firebase



VS Code



Visual Studio Code



Methodology: Rapid Solo Software Development (RSSD)

Agile-based,
tailored for solo
developers

Prioritizes
efficiency,
modularity, and
revisitability

PHASES:

MEET
PLAN
DESIGN
DEVELOP
TEST
EVALUATE



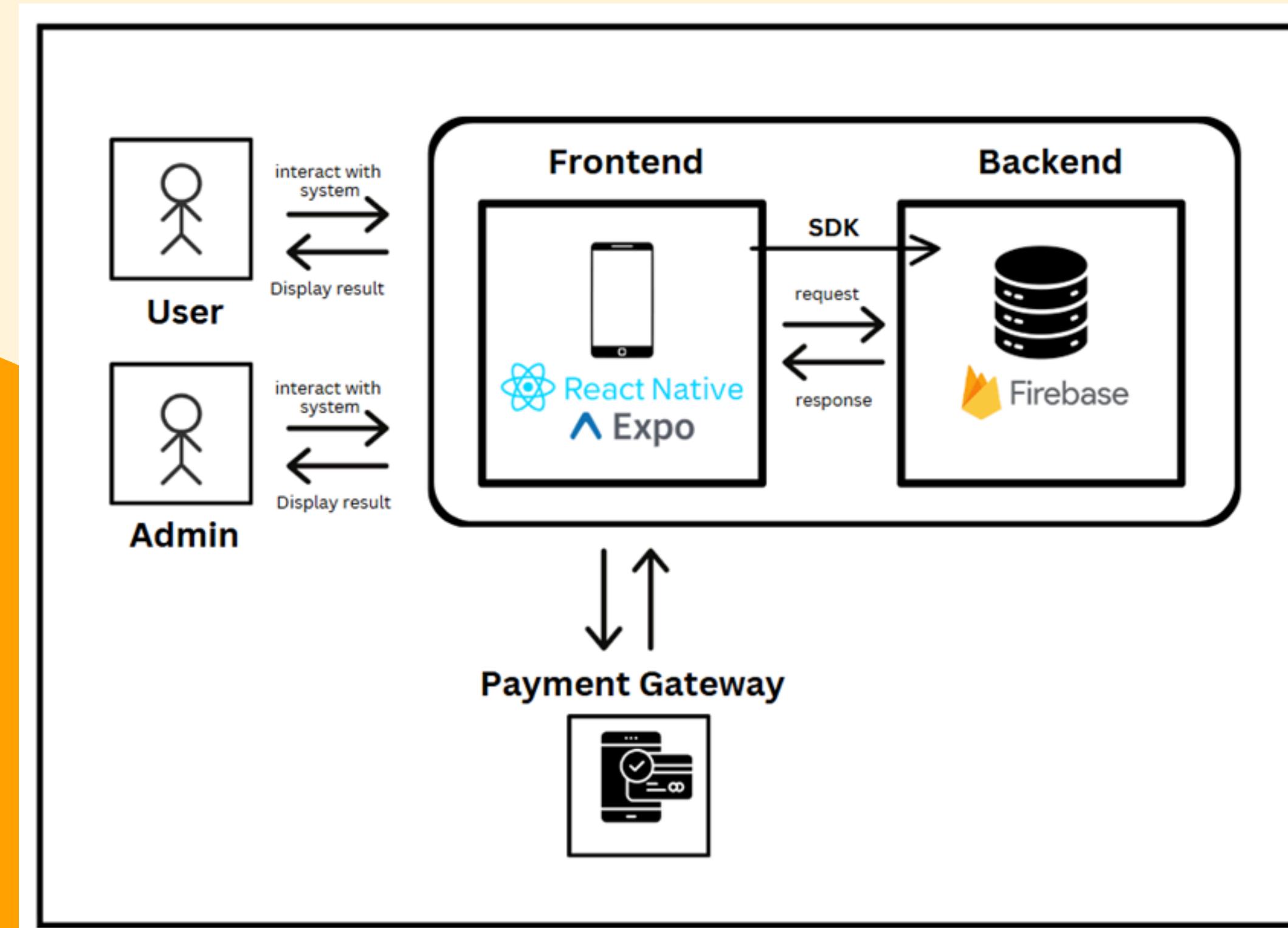
DESIGN use case diagram

Pethero KPH UUM System Use Case

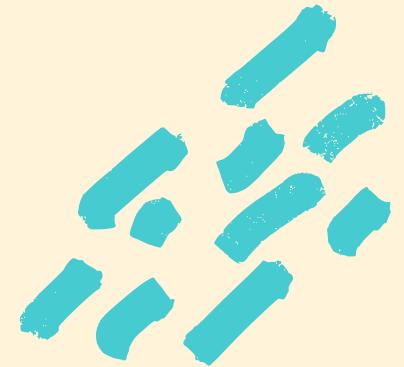
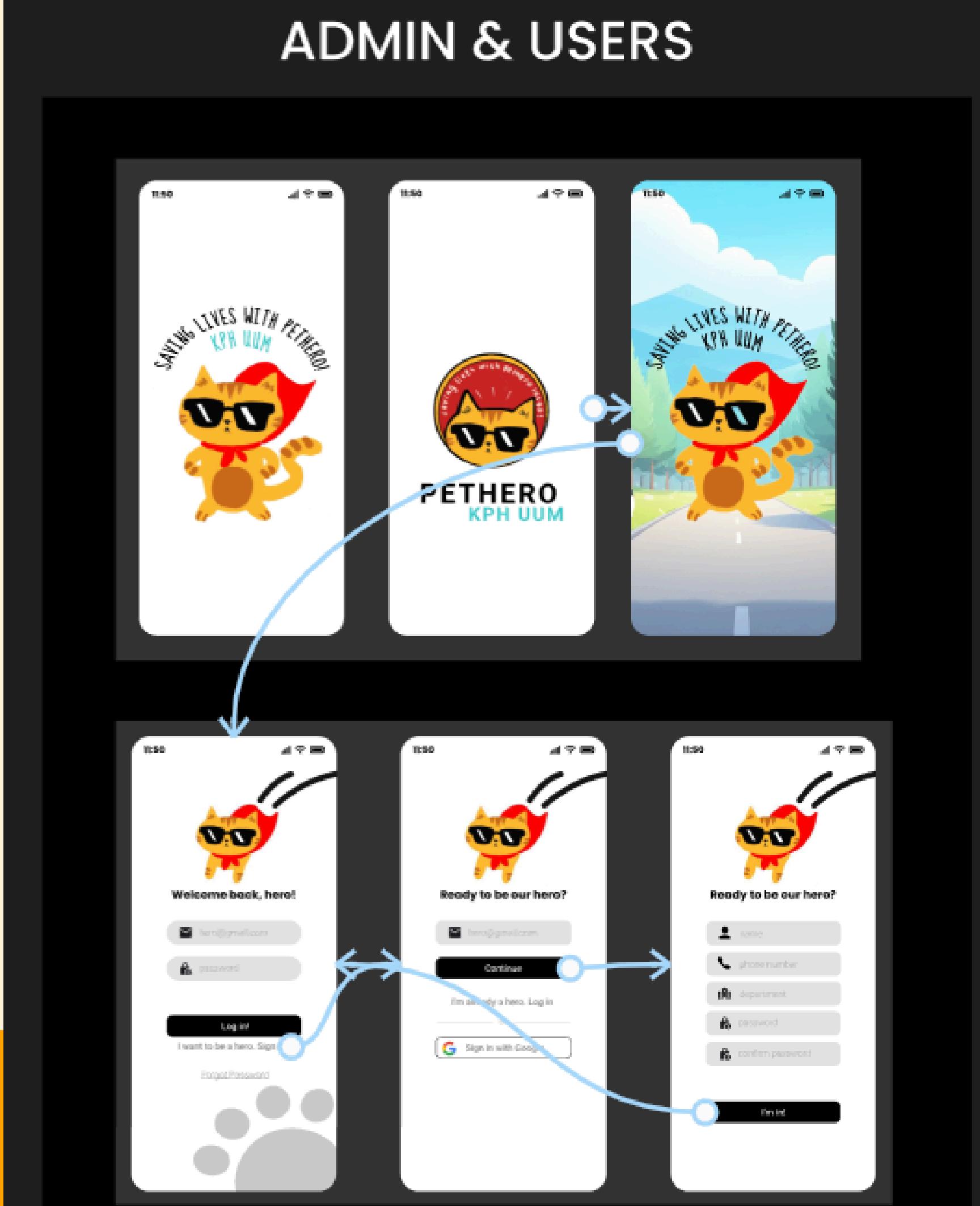


DESIGN

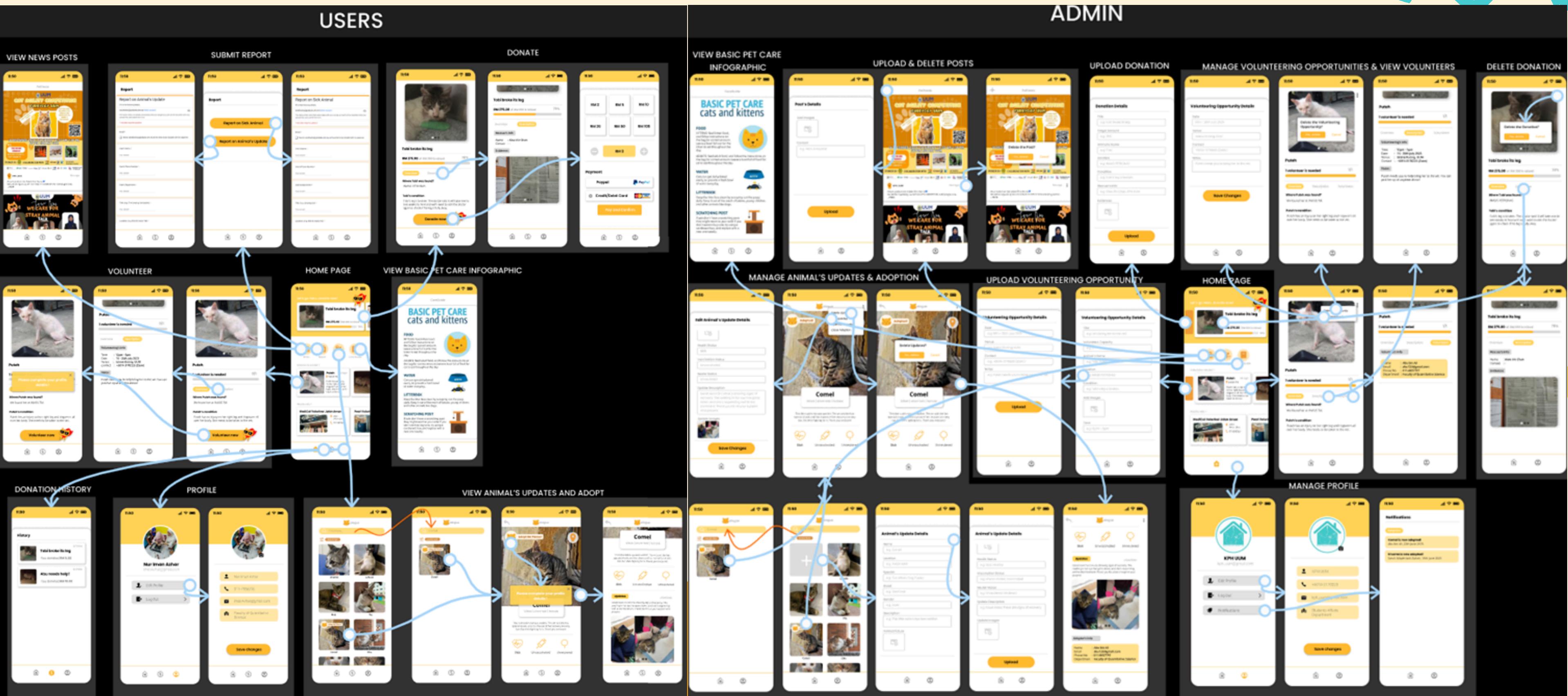
system architecture design



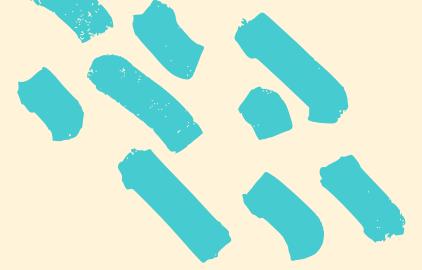
Interface Design & Page Navigation



Page Navigation



Contribution



Enhancing
Visibility and
Information
Sharing

Ensuring
Transparency
and Building
Trust

Streamlining
Donation and
Volunteer
Management

Encouraging
Community
Involvement





THANK EOW