Software Engineering Second Report

TechBlue

MyPet Mobile Application

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Gökberk Uruk

Baran Şahin

1- User Story and Related Scenarios

Ahmet, a devoted pet owner with a dog, relies on the "MyPet" application for all his pet-related needs. When Ahmet opens the app and logs in with his username and password, he can access various features from a single user's perspective.

For Ahmet, the "MyPet" application has become an indispensable tool, simplifying his pet care responsibilities and ensuring his dog receives the best grooming, healthcare, and added security for locating the pet if it ever gets lost.

Scheduling Dog Grooming Services

Within the application, Ahmet, a fellow dog owner, selects the "pet groomer" option. Opting for "Employee postings," he is presented with a list of registered dog groomers, complete with scores and comments. After selecting a groomer, the application provides detailed information. By clicking on schedule, Ahmet effortlessly books an appointment for his dog Max's grooming needs. Furthermore, if he selects the “+” sign, the system guides him to create his dog grooming job profile.

Exploring Job Opportunities in Dog Grooming

Choosing the "Job postings" under the pet groomer option, Ahmet explores current jobs related to dog grooming. Selecting a job listing, he reviews job details, learns about the advertiser, and communicates with the job poster. If Ahmet decides to post a job, selecting the “+” sign directs him to a page where he can input details about the job posting.

Finding Trustworthy Dog Walkers

Ahmet, now exploring the application's "Pet Walking" feature, searches for reliable dog walkers for his dog Rocky's exercise needs. Whether exploring "Employee Listings" or "Job Postings," Ahmet efficiently manages Rocky's exercise requirements, scheduling appointments, or connecting with service providers. Or by selecting the “+” sign, Ahmet can post a job for related services.

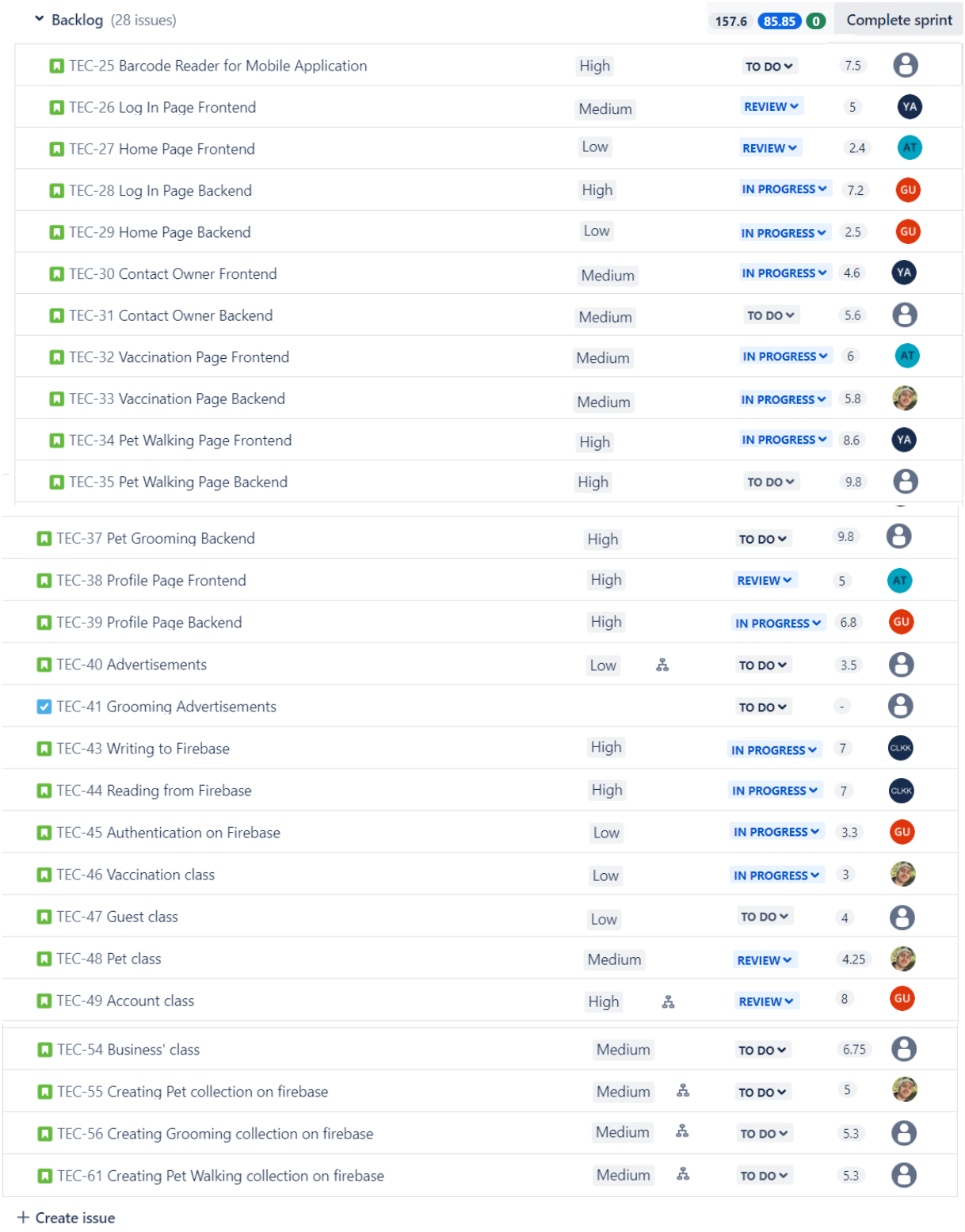
Whiskers' Health in Focus: Managing Pet Vaccination Records

When Ahmet selects the "vaccination" option, he easily manages Whiskers' vaccination records. The app enables him to record crucial details such as vaccination type, date, and the veterinarian's name. The app's reminder system ensures that Ahmet stays on top of Whiskers' health, and when necessary, he can view specific details about each vaccination.

Ahmet's Peace of Mind: Barcode Security for Pets

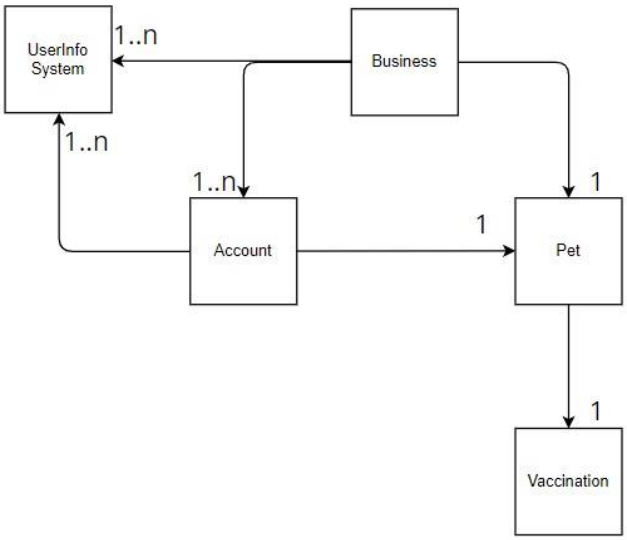
The "MyPet" application boasts a unique feature: Each pet's collar strap is equipped with a Barcode. This Barcode can be scanned using the app. If Max or any other pet ever goes missing, a helpful neighbor who finds the pet uses the app to scan the Barcode, triggering a notification to the owner and aiding in the swift reunion of the lost pet with its owner.

2- Project Backlog

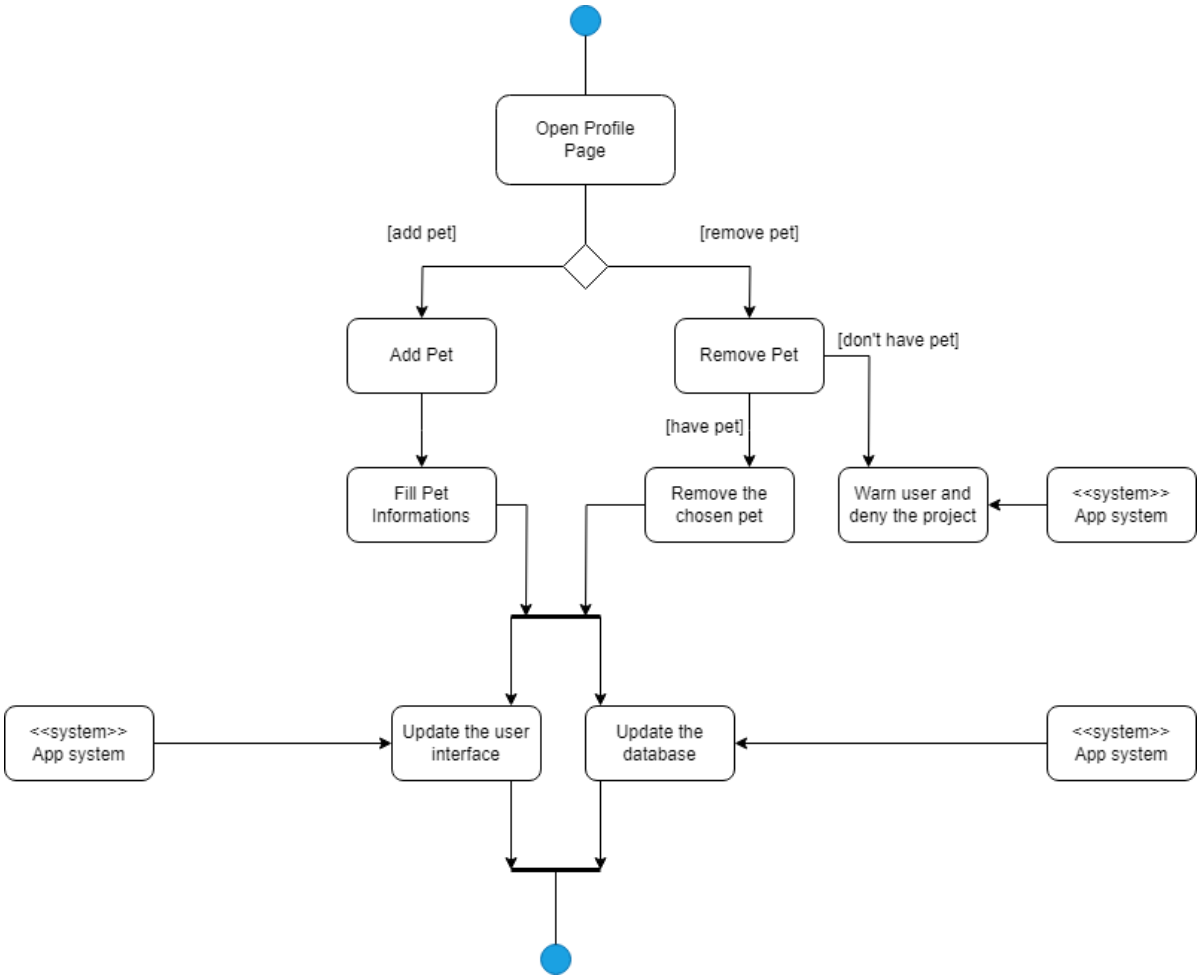


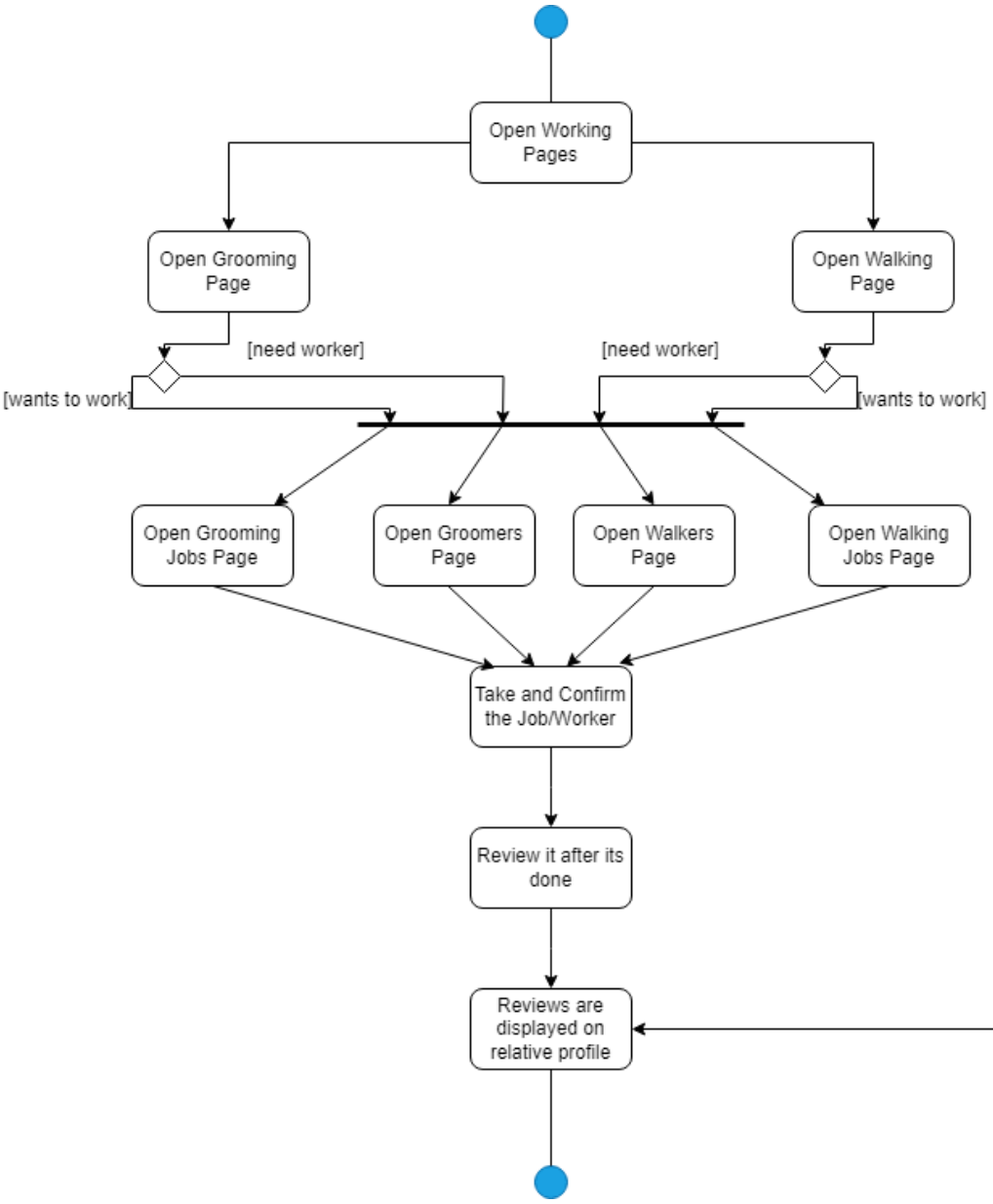
3- UML Diagrams

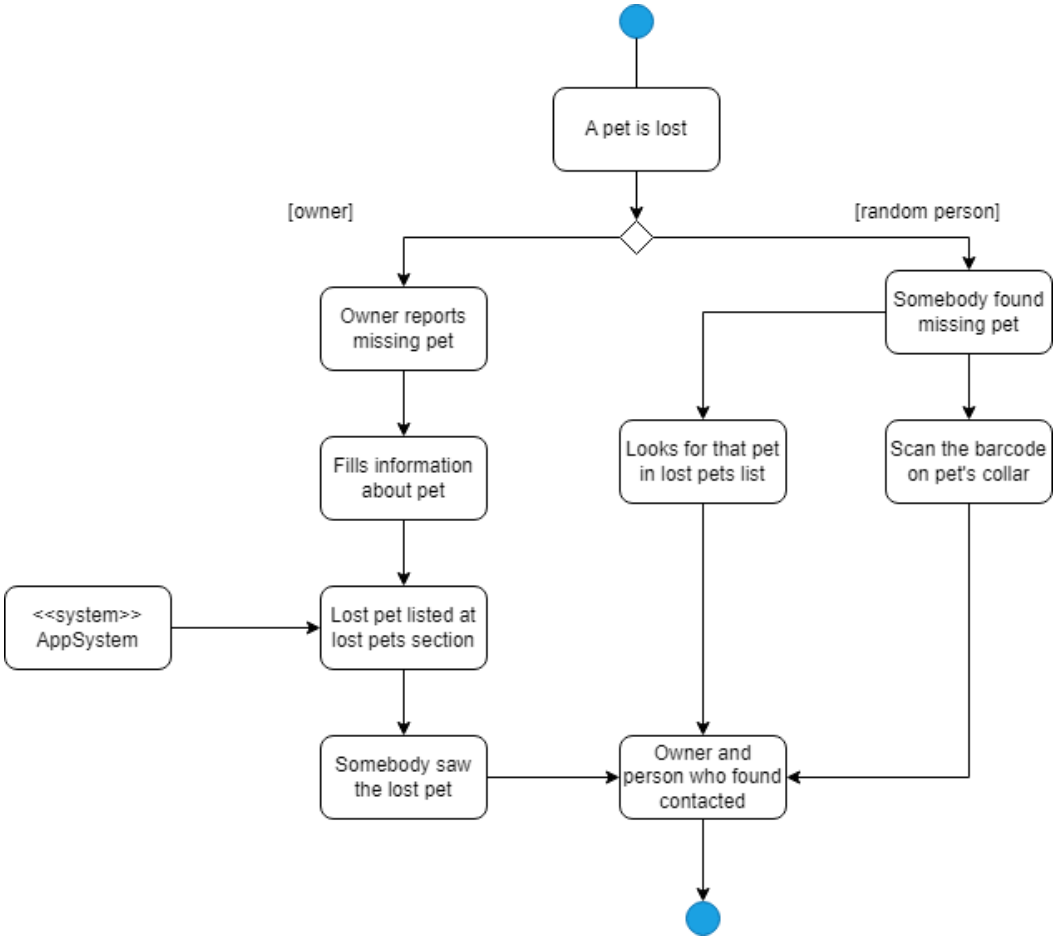
a- Context Model

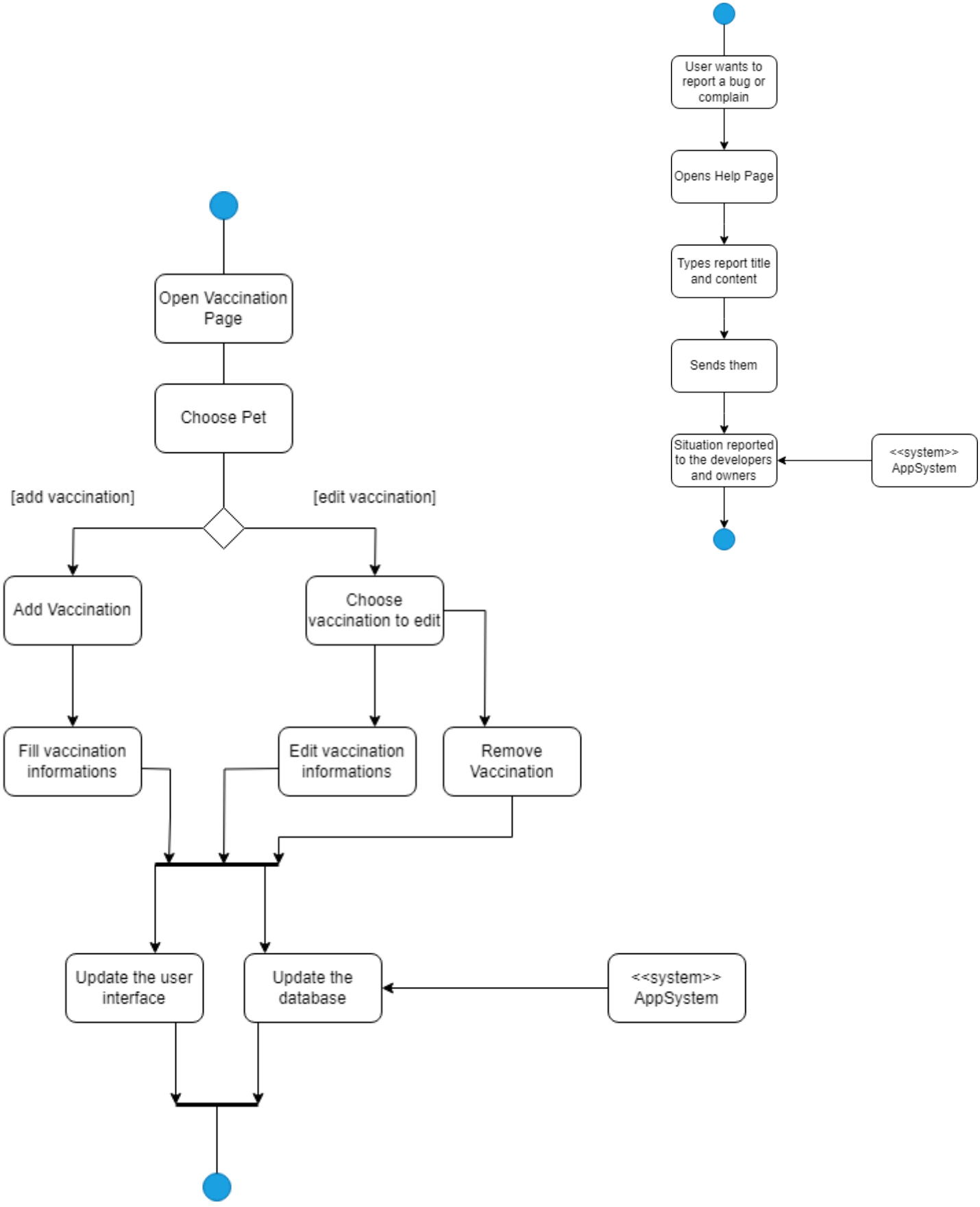


b- Process Model

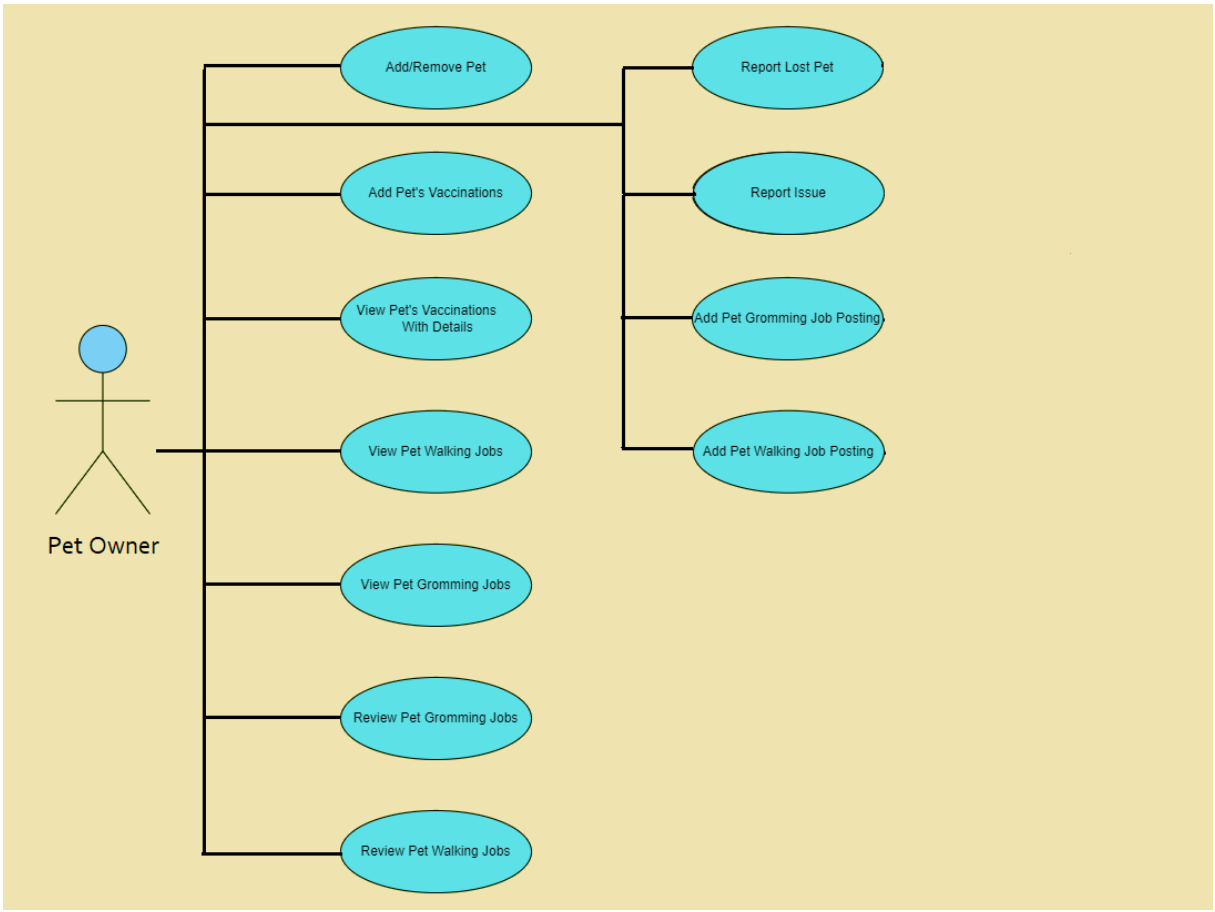


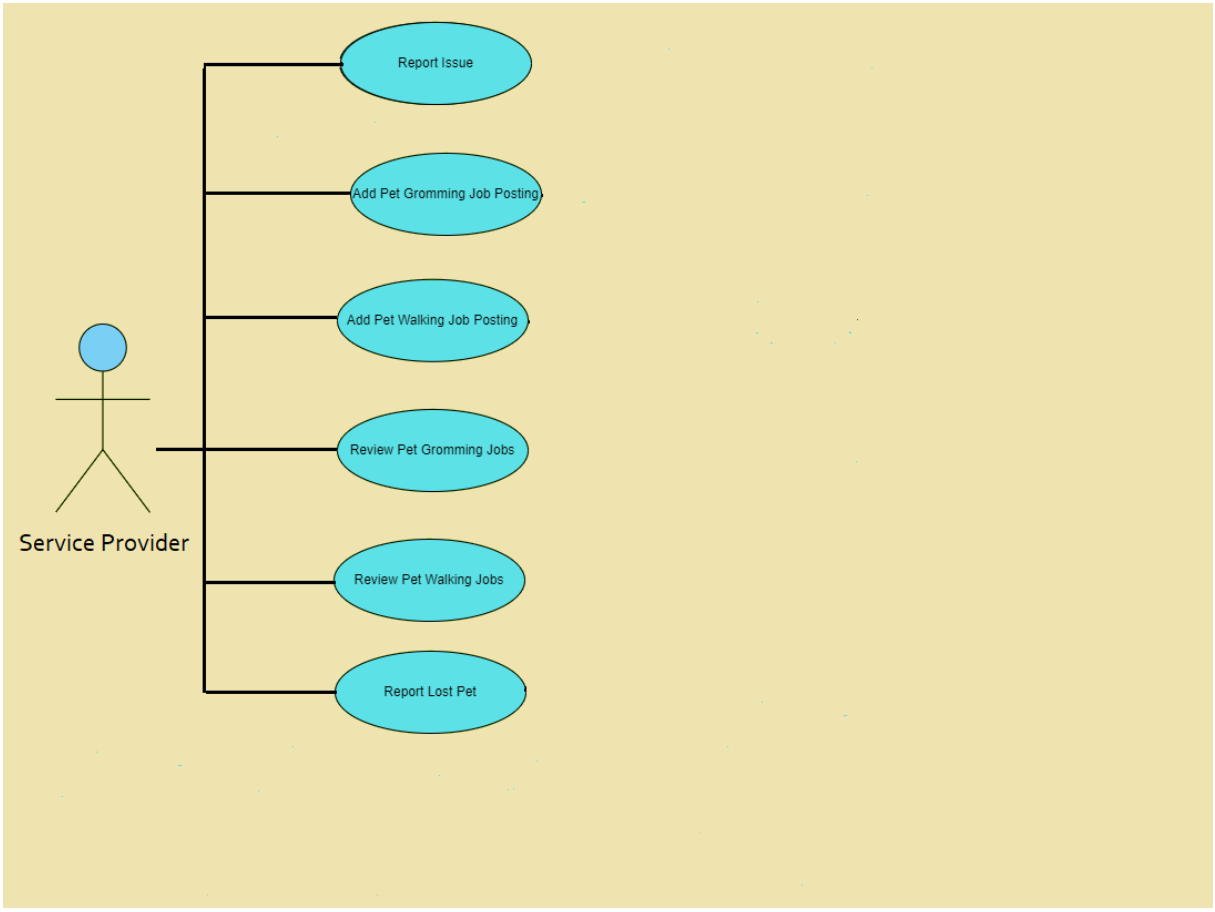

Open Working Pages
Open Grooming Page
Open Walking Page
[need worker]
[need worker]
[wants to work]
[wants to work]
Open Grooming Jobs Page
Open Groomers Page
Open Walkers Page
Open Walking Jobs Page
Take and Confirm the Job/Worker
Review it after its done
Reviews are displayed on relative profile
<<system>> AppSystem


A pet is lost
[owner]
[random person]
Owner reports missing pet
Somebody found missing pet
Fills information about pet
Looks for that pet in lost pets list
Scan the barcode on pet's collar
<<system>> AppSystem
Lost pet listed at lost pets section
Somebody saw the lost pet
Owner and person who found contacted


User wants to report a bug or complain
Opens Help Page
Types report title and content
Sends them
Situation reported to the developers and owners
<<system>> AppSystem
Open Vaccination Page
Choose Pet
[add vaccination]
[edit vaccination]
Add Vaccination
Choose vaccination to edit
Fill vaccination informations
Edit vaccination informations
Remove Vaccination
Update the user interface
Update the database
<<system>> AppSystem

c- Use-case diagrams and their detailed tables





Tables

System	MyPet Mobile Application
Use Case	Add/Remove Pet
Actors	User, MyPet Mobile Application
Data	Pet's details (name, breed, etc.), Owner's account details
Stimulus	The user decides to add a new pet or remove an existing pet from their profile.
Response	For adding a pet, the system presents a form to enter the pet's details. Upon submission, the pet is added to the user's account. For removing a pet, the user selects the pet to be removed.
Comments	The system should ensure easy navigation for adding or removing pets. Data validation for pet details is essential to maintain accurate records.

System	MyPet Mobile Application
Use Case	Vaccination Management
Actors	User, MyPet Mobile Application
Data	Pet's vaccination records (type of vaccine, date of vaccination), Owner's account details
Stimulus	The user wants to add, view, or update the vaccination records of their pet.
Response	For adding a new record, the system presents a form to enter vaccination details. For viewing, it displays the pet’s vaccination history. For updating, it allows editing existing records.
Comments	The system should ensure easy navigation for adding or removing vaccination. Accuracy in recording vaccination details is critical.

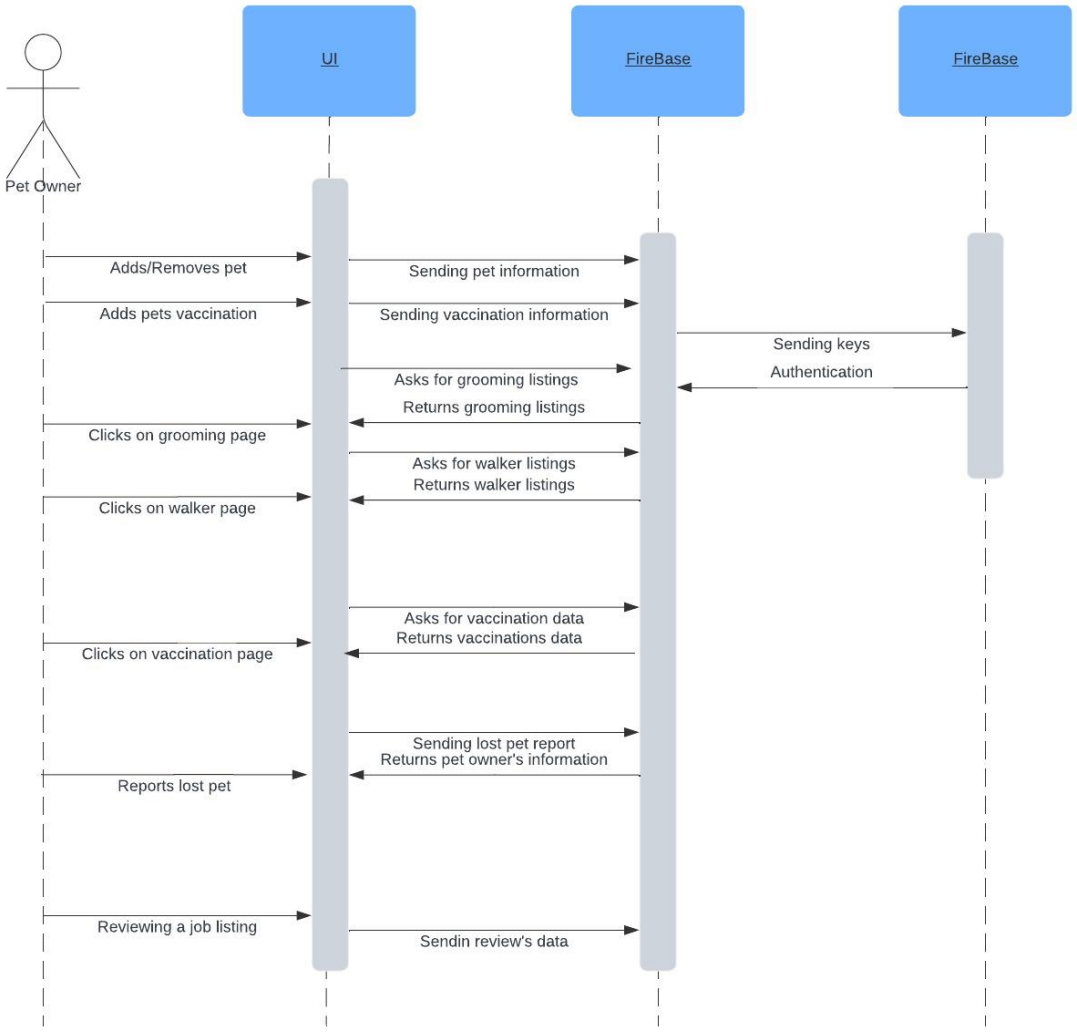
System	MyPet Mobile Application
Use Case	View and Review Pet Walking and Grooming Services
Actors	User, MyPet Mobile Application, Service Provider
Data	Pet walking or grooming service listings, Walker or Groomer profiles
Stimulus	User wants to find pet walking or grooming services
Response	The system shows available pet walking or grooming services. User can view details, ratings, and book services. The system offers the ability to review for the services.
Comments	The app needs to provide an easy-to-navigate interface for searching walking and grooming services

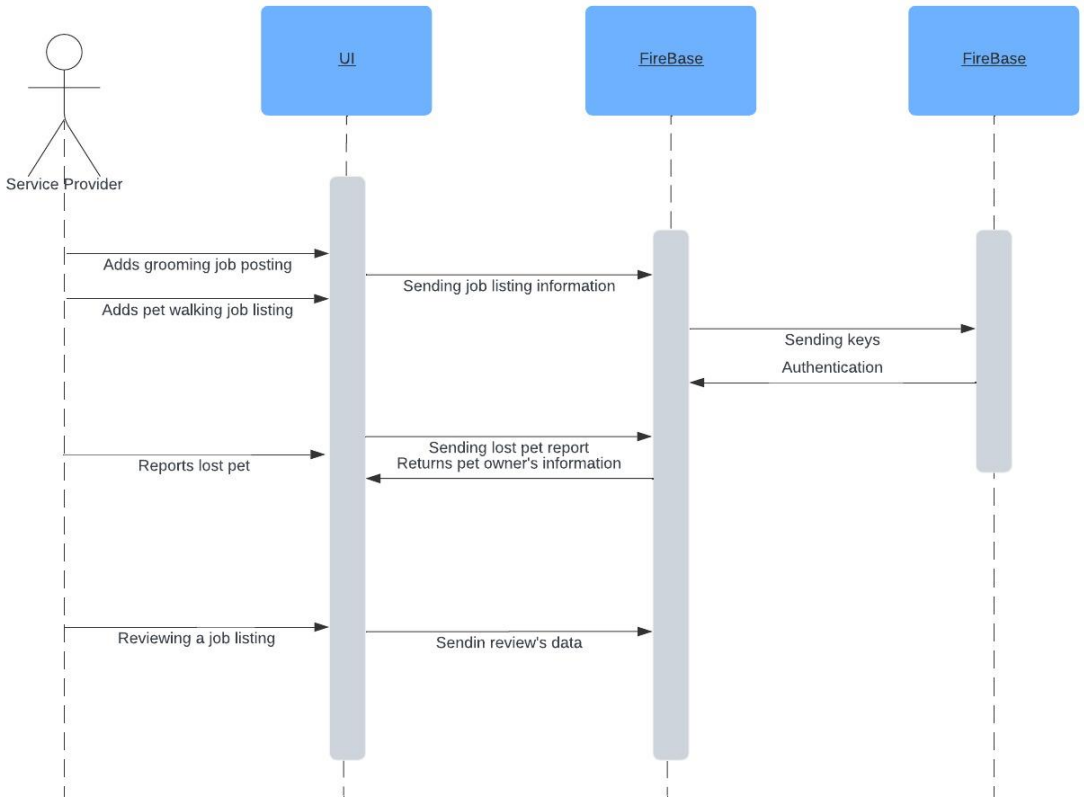
System	MyPet Mobile Application
Use Case	Manage Pet Walking and Grooming Services
Actors	User, MyPet Mobile Application, Service Provider
Data	Information of Pet walking or grooming services, Provider's account details
Stimulus	Provider wants to offer pet walking or grooming services
Response	The system displays available pet walking services or allows provider to post a pet walking job.
Comments	The interface should be user-friendly for posting and managing grooming or walking jobs.

System	MyPet Mobile Application
Use Case	Report Lost Pet
Actors	User (Pet Owner), Finder (General Public), MyPet Mobile Application
Data	Pet's profile, Barcode on the pet's collar, Owner's contact information (if user wanted to share)
Stimulus	A pet goes missing and is found by someone, or user needs to report his pet as lost.
Response	If a finder scans the Barcode on the lost pet's collar, finder can see pets information or communicate with pet owner.
Comments	The Barcode scanning feature must be efficient and accurate to facilitate quick reunification of lost pets with their owners.

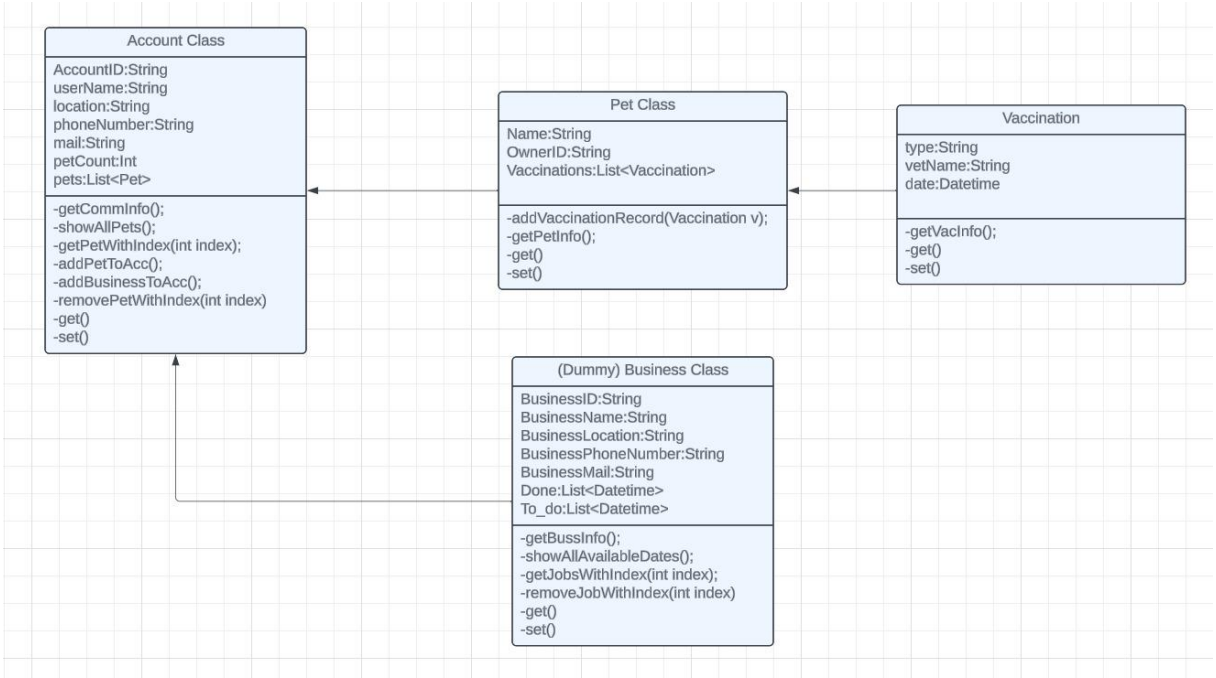
System	MyPet Mobile Application
Use Case	Report Issue
Actors	User, MyPet Mobile Application, Service Provider
Data	Issue details, User or Provider contact information
Stimulus	User or Provider encounters an issue or bug within the app or has a complaint about a service.
Response	The app provides a form for user or provider to describe the issue.
Comments	This use case ensures that users can easily report any issues or concerns they have while using the app, contributing to continuous improvement in the app's functionality and user experience.

d- Sequence Diagrams





e- Class Diagram



4- https://youtu.be/qgIqNraX118

5- Test Cases

Test Case Id	SignUp-1
Created By	Gökberk Uruk

Test Case Description	To Check Sign Functionality of MyPet application

Pre-Requisite	1-Click to sign up button

Test Data Requirement	1-Name-Surname 2-Mail 3-Phone 4-City 5-Province 6-Password

Test Scenario	After opening the application, the user clicks on the sign up button to register to the MyPet application.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail
1	User clicks to application icon	Application launches	Application launches	Pass
2	User clicks to "Sign Up" option	Navigate to the Sign Up page	Navigate to the Sign Up page	Pass
3	Enter all data correctly	Successful sign-up	Successful sign-up	Pass
4	Enter wrong data	Show error message	Successful sign-up	Fail

Test Case Id	Login-1
Created By	Gökberk Uruk

Test Case Description	To Check Login Functionality of MyPet application

Pre-Requisite	1-Click to login button

Test Data Requirement	1-Mail 2-Password

Test Scenario	After opening the application, the user clicks on the login button to enter to the MyPet application.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail
1	User clicks to application icon	Application launches	Application launches	Pass
2	Enter correct mail and password	Navigate to the Home Page	Navigate to the Home Page	Pass
3	Enter wrong mail	Show error message	Show error message	Pass
4	Enter wrong password	Show error message	Show error message	Pass
5	Enter wrong mail and password	Show error message	Show error message	Pass