

Software Engineering Third Report

TechBlue

MyPet Mobile Application

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1- User Requirement Document

1. Introduction

The MyPet application is designed to meet the diverse needs of pet owners, providing a user-friendly platform that addresses the daily challenges and concerns associated with pet care. The application aims to provide a convenient, user-friendly interface for pet owners to access services such as grooming, walking, and healthcare management for their pets. It also includes unique features for added security, such as a barcode system for lost pets. MyPet aims to be an indispensable tool for pet owners.

2. Scope

The MyPet application will include features such as pet management, grooming service scheduling, job postings for pet-related services, vaccination record management, and a unique barcode security system for lost pets.

3. System Users

The MyPet application caters to the following types of users:

1. **Pet Owners:** They are the primary users of the application, utilizing its features to manage their pets' care, including scheduling grooming services, finding dog walkers, and maintaining vaccination records.
2. **Service Providers:** Service providers are a crucial user category within the MyPet application, encompassing various professionals such as dog groomers, pet walkers, and other individuals offering pet-related services.
3. **Good Citizen:** In addition to the primary user groups, the application also encourages the participation of "Good Citizens" who can help in reuniting lost pets with their owners. Good Citizens can use the app to scan the barcode on a lost pet's collar, aiding in the swift reunion of the lost pet with its owner. This feature promotes community engagement and support for pet owners in distress.
4. **Administrators:** These users are responsible for overseeing the application's operations, managing user accounts, handling reported issues, and ensuring the overall functionality of the platform.

4. User Requirements

4.1 Pet Owners

Adding and Removing Pets

Why Users Need This Feature: Pet owners require a centralized platform to manage and edit their pets' particulars. This feature facilitates efficient access to crucial information such as breed, age, and medical history, enabling better-informed decisions related to pet care. Pet owners experience the joy of expanding their furry family or gracefully managing changes by easily adding or removing pets from their profiles. This ensures that their MyPet account stays a true reflection of their current companions.

Scheduling Grooming Services

Why Users Need This Feature: Users seek a convenient way to schedule grooming appointments for their pets. Busy pet owners can seamlessly schedule grooming services for their pets with the MyPet application. This feature not only simplifies the process but also guarantees that their pets receive the care they deserve. The feature provides a curated list of registered pet groomers, along with scores and comments, empowering pet owners to choose high-quality grooming services tailored to their pets' needs.

Finding Trustworthy Dog Walkers

Why Users Need This Feature: Pet owners desire a simple solution to find reliable pet walkers. Pet owners, committed to their pets' well-being, rely on the app to find trustworthy dog walkers. Whether exploring employee listings or job postings, this feature ensures that their pets' exercise needs are met by dependable service providers.

Managing Pet Vaccination Records

Why Users Need This Feature: Users understand the importance of keeping their pets' vaccinations up-to-date. The MyPet application simplifies the critical task of managing pet vaccination records. Pet owners can effortlessly record vaccination details, stay on top of their pets' health needs.

Barcode Security for Pets

Why Users Need This Feature: Pet owners want a proactive solution in case their pets go missing. The unique barcode security feature offers pet owners peace of mind. In the unfortunate event of a pet going missing, the barcode system, when scanned by a helpful neighbor, and safe reunion of the lost pet with its owner.

4.2 Service Providers

Posting Job Opportunities

Why Users Need This Feature: Service providers, such as dog groomers and pet walkers, can actively expand their clientele by posting job opportunities within the application. This feature allows them to reach a broader audience of pet owners seeking their specialized services.

Managing Job Postings

Why Users Need This Feature: The platform facilitates service providers in efficiently managing and updating their posted job opportunities. This includes editing details, updating availability, and responding to inquiries from potential clients.

4.3 Good Citizen

Scanning Barcodes

Why Users Need This Feature: Good citizens encounter lost pets equipped with a barcode on their collar straps. The ability to scan this barcode through the MyPet application is crucial for notifying pet owners promptly. This feature ensures an efficient and secure way to help reunite lost pets with their owners.

Viewing Pet Information

Why Users Need This Feature: Upon scanning the barcode, Good Citizens gain access to important information about the lost pet. This includes details such as the pet's name, owner's contact information (if shared), and any additional notes provided by the owner, helping in their efforts to reunite the pet with its family.

4.4 Common Features

Report Issue

Why Users Need This Feature: Users appreciate the ability to provide feedback and report issues related to the application or pet services. This feature ensures a responsive system that addresses user concerns and continuously improves the overall experience.

Accessibility

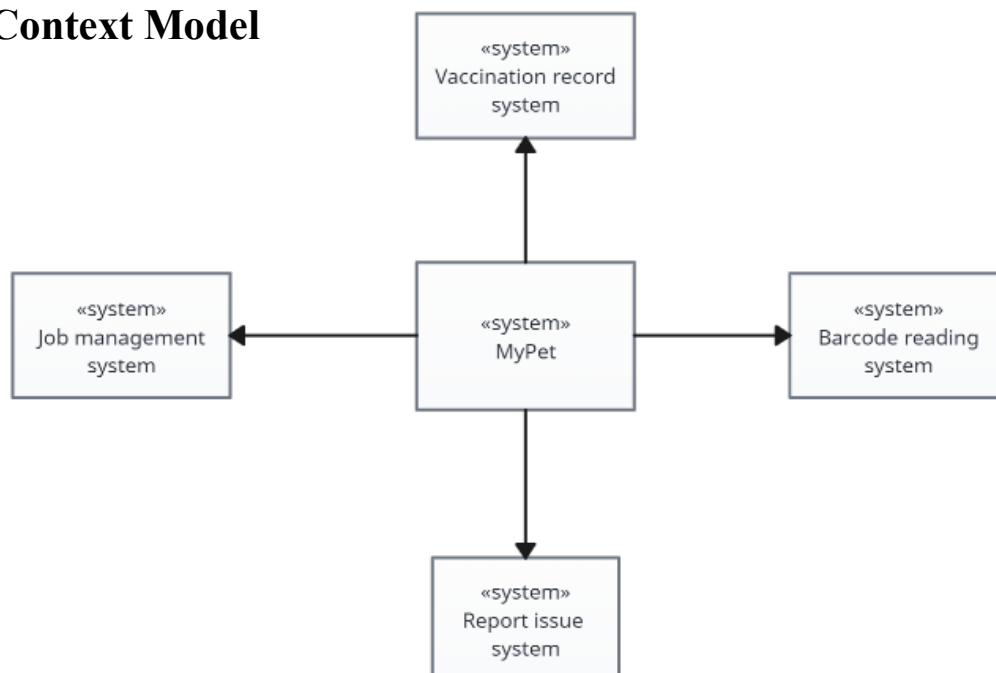
Why Users Need This Feature: A user-friendly and accessible interface is essential for individuals with varying levels of technological proficiency. This feature ensures that users can easily navigate the application, making it inclusive and enjoyable for all pet owners.

5. Conclusion

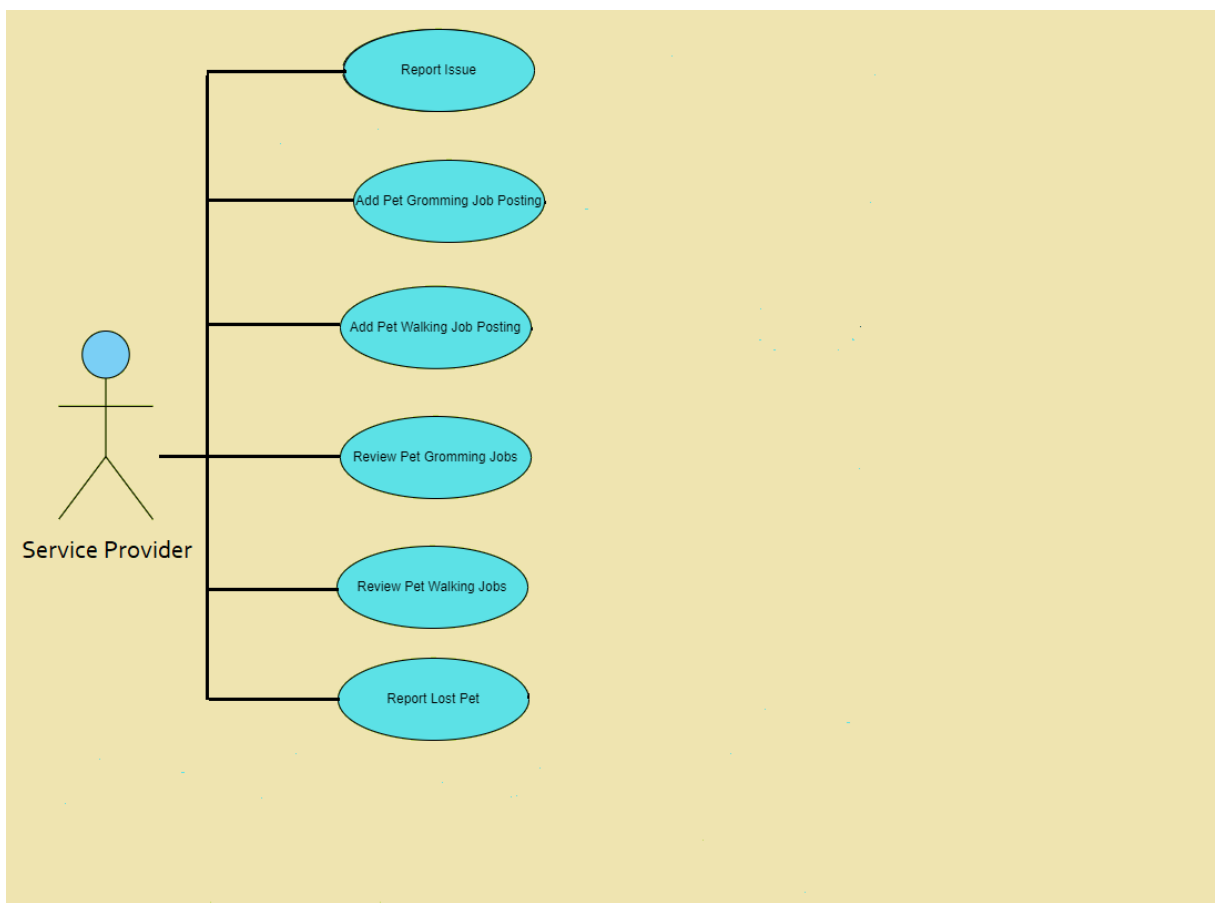
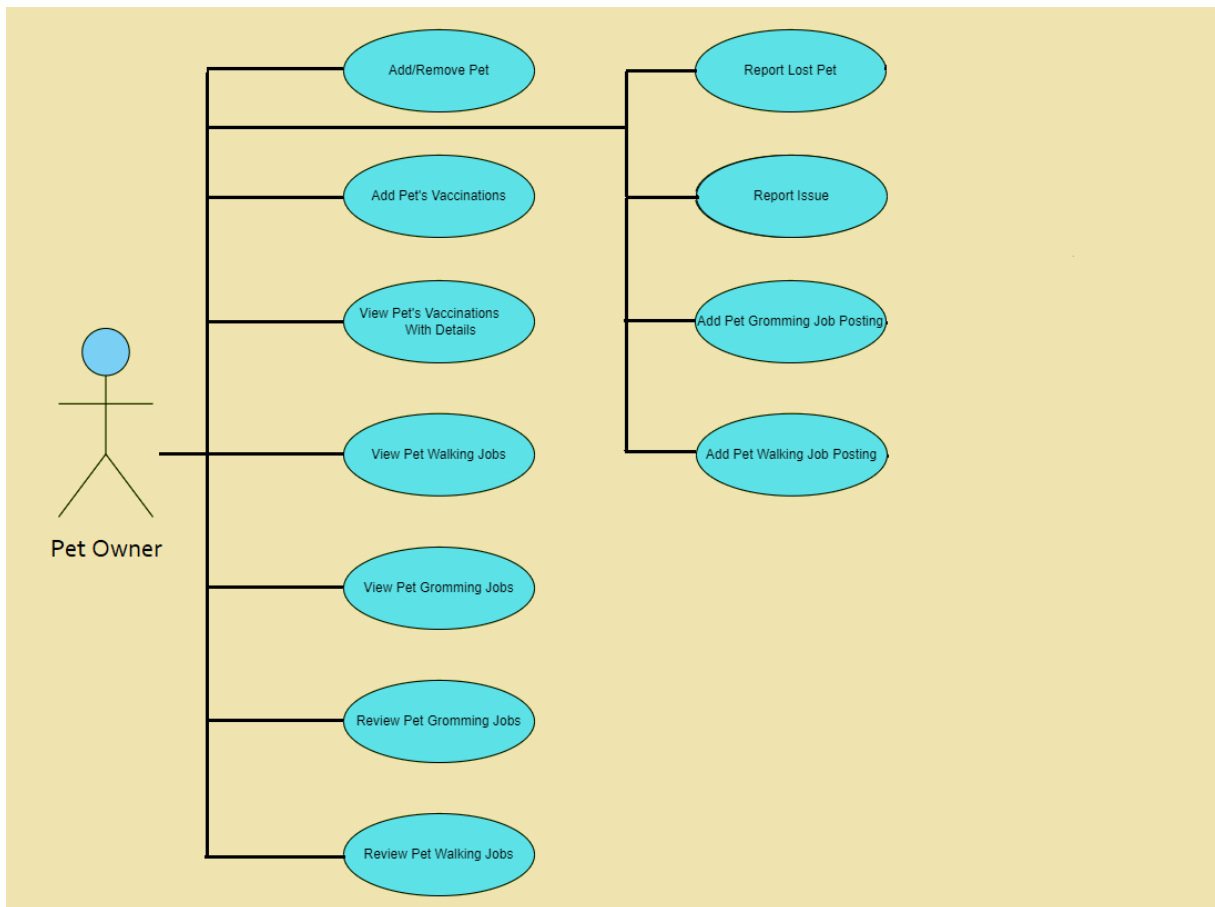
The MyPet application's user requirements are driven by the desire to provide a comprehensive, user-centric platform that addresses the unique needs of pet owners. By understanding the motivations behind each feature, the application aims to enhance the overall pet care experience, foster a sense of community, and establish itself as an indispensable tool for pet owners and service providers alike.

2- UML Diagrams

a- Context Model



b- 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.

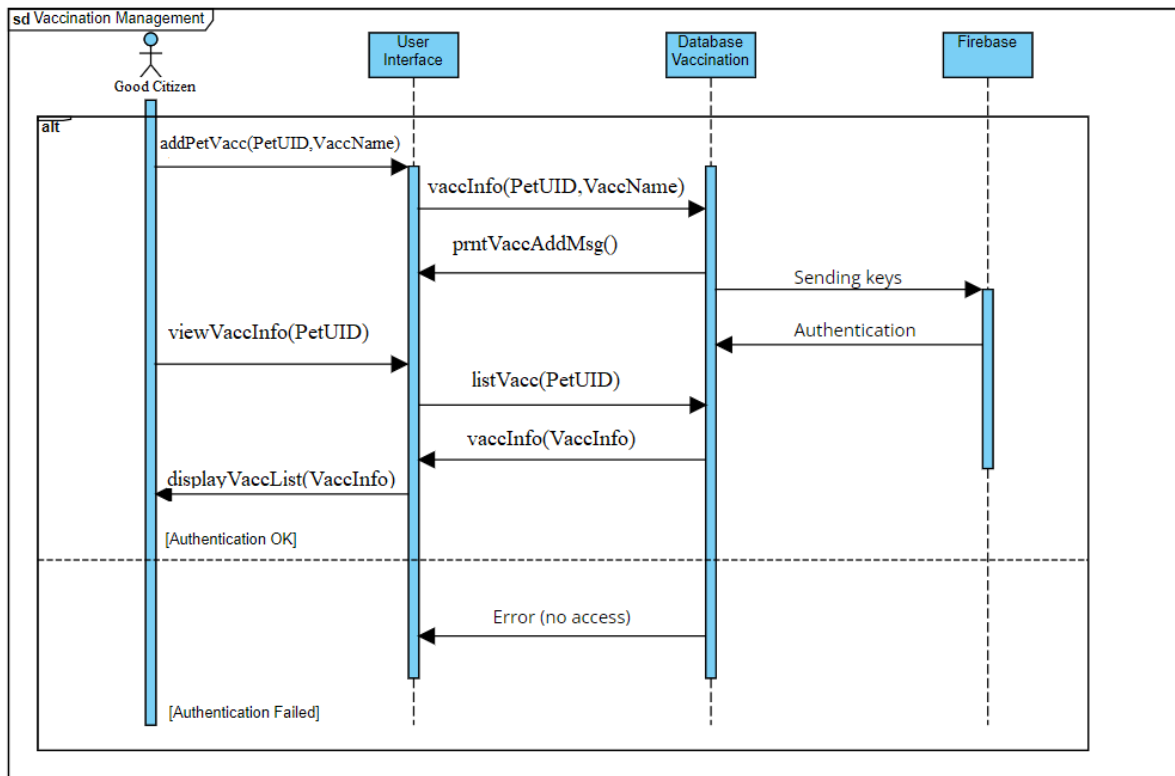
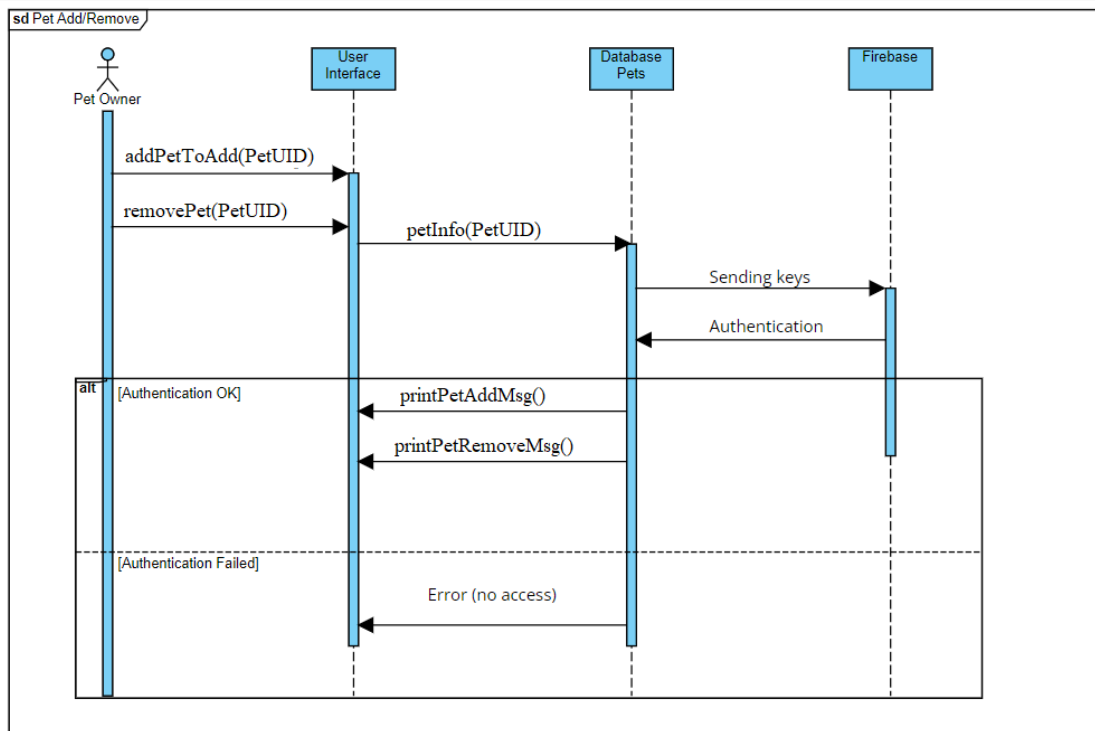
System	MyPet Mobile Application
Use Case	View and Review Pet Walking and Grooming Services
Actors	User, MyPet Mobile Application, Service Provider
Data	Pet walking or grooming service listings, Walker or Groomer profiles
Stimulus	User wants to find pet walking or grooming services
Response	The system 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

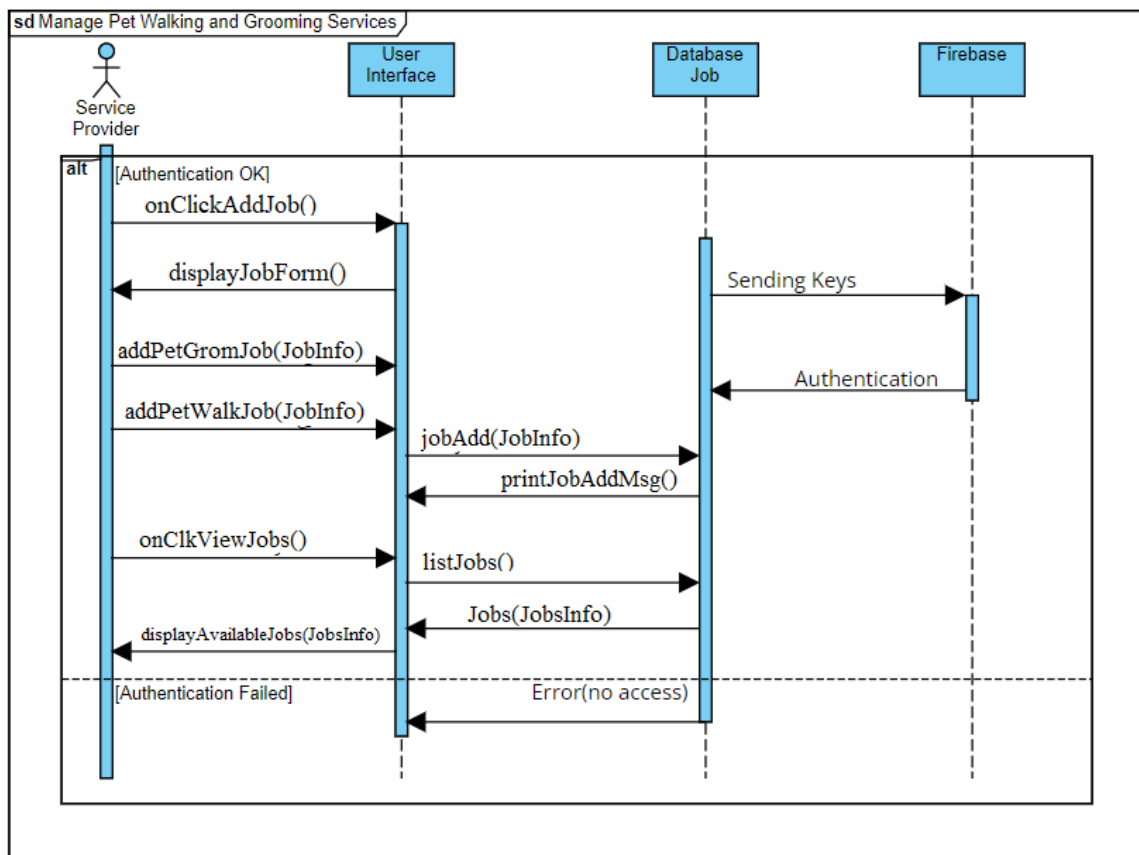
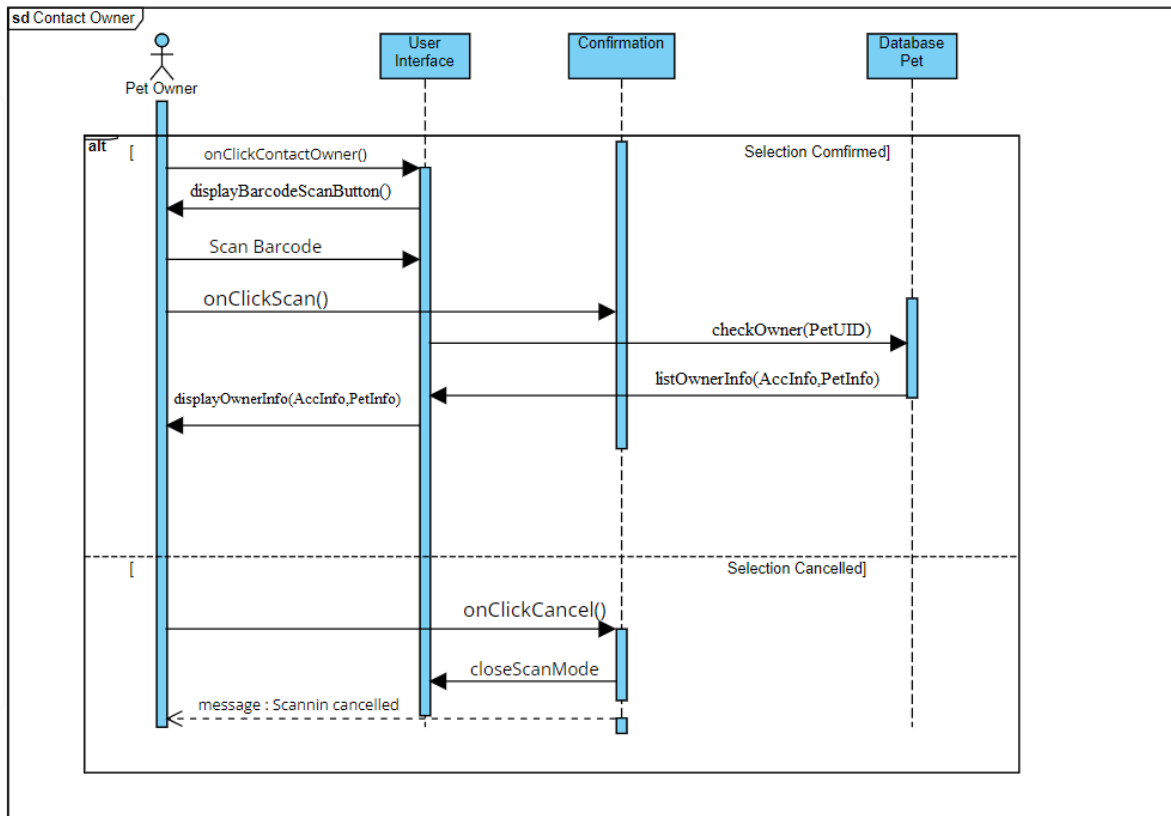
System	MyPet Mobile Application
Use Case	Manage Pet Walking and Grooming Services
Actors	User, MyPet Mobile Application, Service Provider
Data	Information of Pet walking or grooming services, Provider's account details
Stimulus	Provider wants to offer pet walking or grooming services
Response	The system 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.

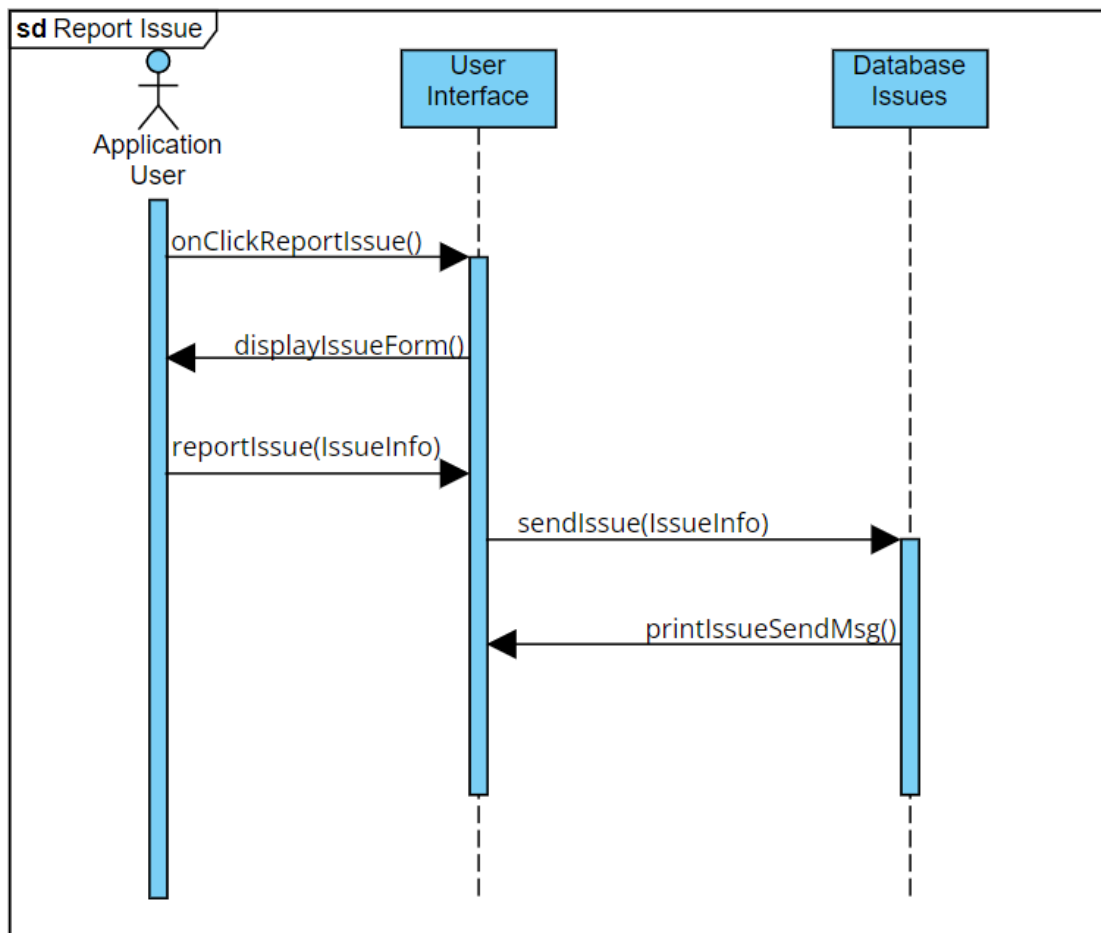
System	MyPet Mobile Application
Use Case	Report Lost Pet
Actors	User (Pet Owner), Finder (General Public), MyPet Mobile Application
Data	Pet's profile, Barcode on the pet's collar, Owner's contact information (if user wanted to share)
Stimulus	A pet goes missing and is found by someone, or user needs 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.

c- Sequence Diagrams







3- Project Link

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