CAMPUS ANIMALS
Analysis Model

Submitted to:

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Unique Reference:

The documents are stored in the GitHub repository, bit.ly/CampusAnimals referenced with the filename Group 4 - Campus Animals - Analysis Model.pdf.

Purpose:

This document presents the analysis model of the Campus Animals system through a class diagram wherein boundary, control, and entity classes -- and their attributes and operations -- are specified. The analysis model shall serve as the base model of the system.

Audience:

The organization Friends of Campus Animals (FOCA) and the general public.

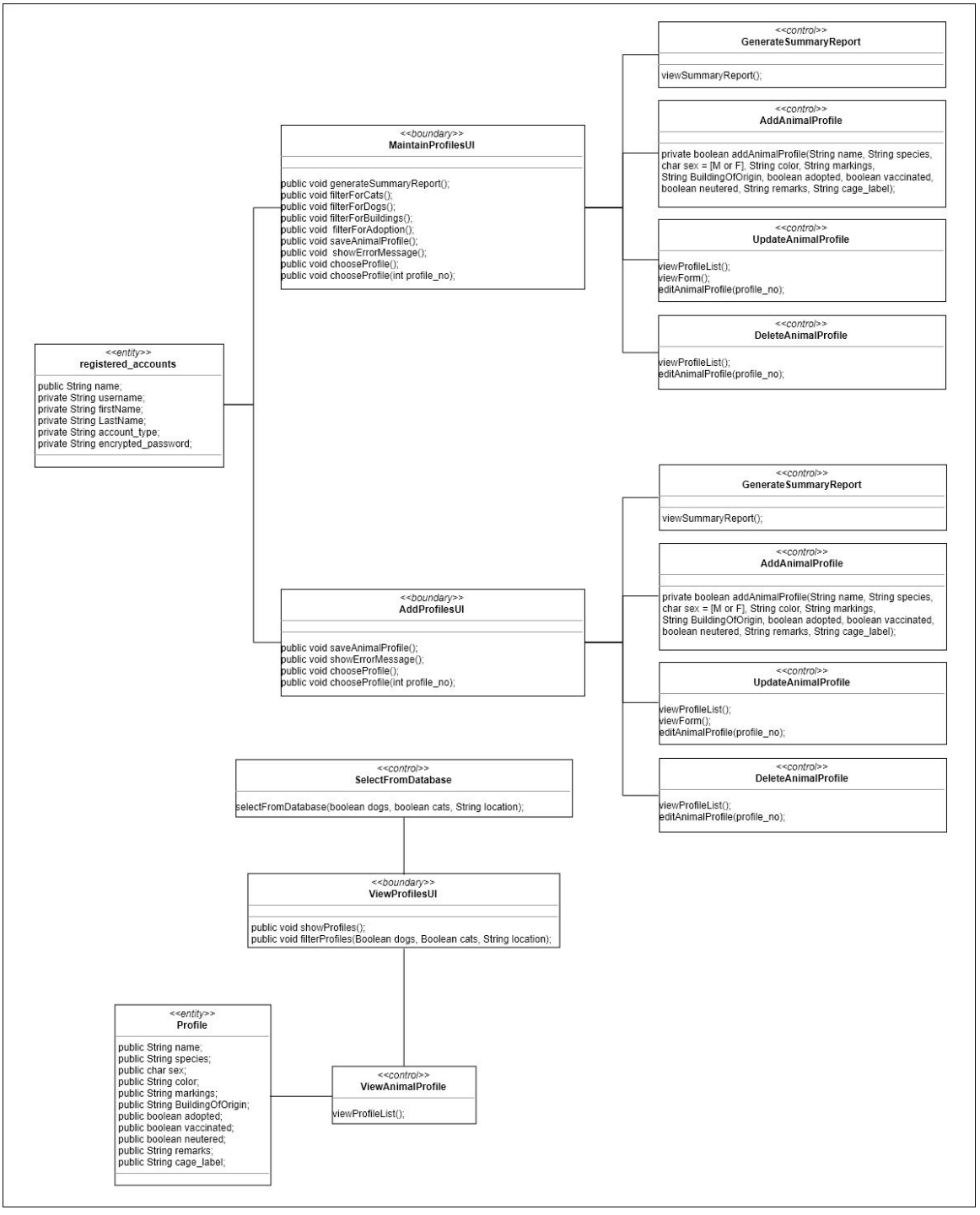
Revision Control:

Revision Date	*Person Responsible*	*Version Number*	*Modification*
10/02/2018	Arianne Gallardo	1.0	Initial document; document purpose; system description
10/04/2018	Roy Christopher Yabut	2.0	Sequence Diagrams
10/05/2018	Arianne Gallardo	3.0	Sequence diagram for use case viewprofile; boundary classes; entity classes; class digram
10/05/2018	Roy Christopher Yabut	4.0	Control classes

***System Name*:** Campus Animals

Description: Campus Animals is a profiling application and a database intently created to keep track of the animals residing in the University of the Philippines Diliman Campus. The database is maintained by the Secretary General with the help of volunteers or encoding staff.For public use, users can view and search through the profiles in the database.

Analysis Model:



Boundary Classes:

Class Name	Description
ViewProfilesUI	This is the default interface of a user to the system wherein profiles of each animal are readily displayed. *Responsibilities*: public void showProfiles() public void filterProfiles(Boolean dogs, Boolean cats, String location)
MaintainProfilesUI	This is the interface of an Secretary General to the system when maintaining the database. This includes the features: generate a summary report, view, add, update, and delete profiles. *Responsibilities*: public void generateSummaryReport() public void filterForCats() public void filterForDogs() public void filterForBuildings() public void filterForAdoption() public void saveAnimalProfile() public void showErrorMessage() public void chooseProfile() public void chooseProfile(int profile_no)
AddProfilesUI	This is the interface of an Secretary General to the system when maintaining the database. This includes the features: generate a summary report, view, add, update, and delete profiles. *Responsibilities*: public void saveAnimalProfile() public void showErrorMessage() public void chooseProfile() public void chooseProfile(int profile_no)

Control Classes:

Class Name	Description
GenerateSummaryReport	This is the control that creates summary reports for viewing. It takes note of filters. *Responsibilities*: viewSummaryReport()
AddAnimalProfile	This is the controller that takes care of additional profiles *Responsibilities*: private boolean addAnimalProfile(String name, String species, char sex = [M or F], String color, String markings, String BuildingOfOrigin, boolean adopted, boolean vaccinated, boolean neutered, String remarks, String cage_label)
UpdateAnimalProfile	This is the controller that deals with selecting and editing profiles *Responsibilities*: viewProfileList() viewForm() editAnimalProfile(profile_no)
DeleteAnimalProfile	This is the controller that deals with deleting profiles *Responsibilities*: viewProfileList() editAnimalProfile(profile_no)
SelectFromDatabase	This is the controller that determines which set of profiles should be shown in the screen. *Responsibilities*: selectFromDatabase(boolean dogs, boolean cats, String location)

Entity Classes:

Class Name	Description
AnimalProfile	This is the entity class animalprofile which contains data about an animal. *Attributes*: public String name; public String species; public char sex = [M or F]; public String color; public String markings; public String BuildingOfOrigin; public boolean adopted; public boolean vaccinated; public boolean neutered; public String remarks; public String cage_label;

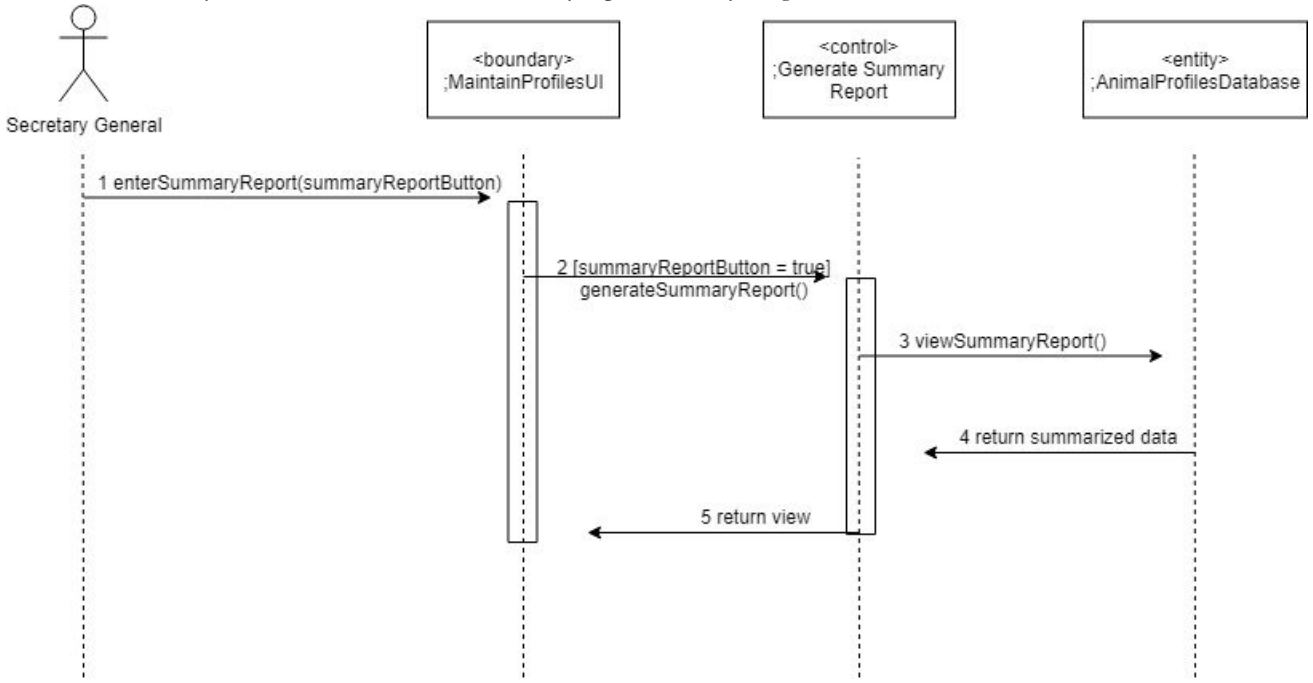
registered_account	This is the entity registered_account which contains data of accounts for maintaining the database.
	Attributes:
	private String username;
	private String firstName;
	private String LastName;
	private String account_type = [admin or regular];
	private String encrypted_password; // the actual password is not stored in the database

Behavioral Model:

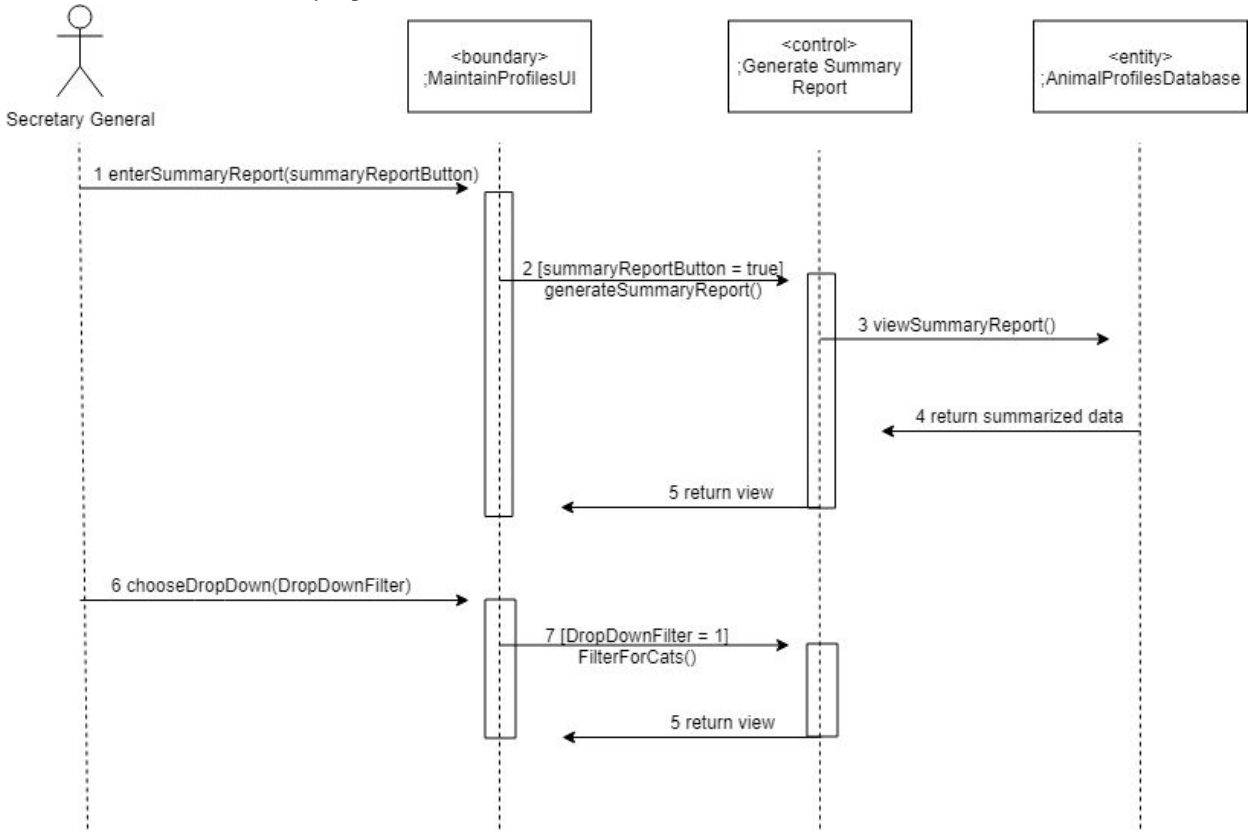
***Use-Case Name*:** Generate Summary Report

Description: Secretary General wants to view the summary report. He/She first sees the overall summary report of every data, but can then choose to filter to see the summary of cats, dogs, colleges and dormitories or adoption cases.

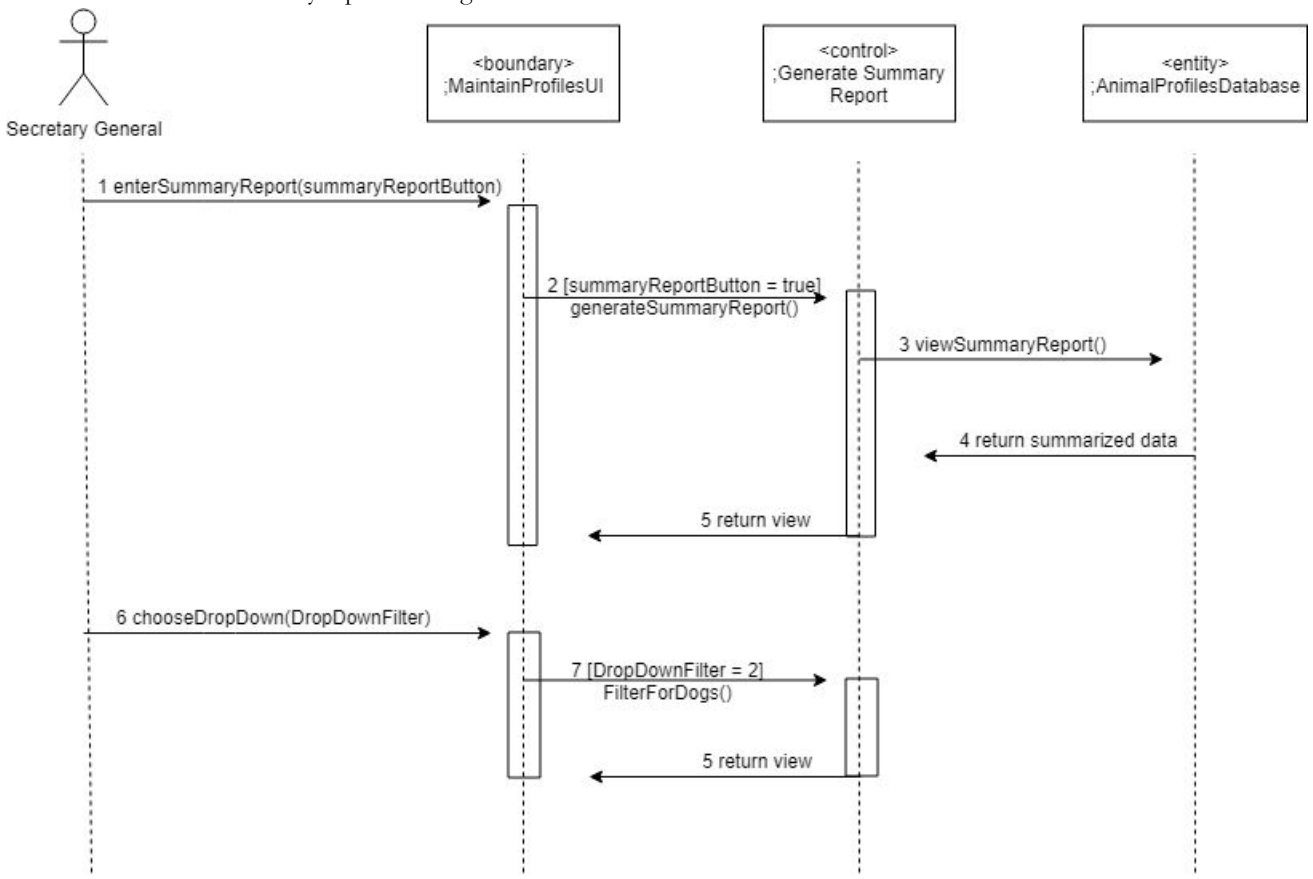
Scenario 1: Secretary General wants to see the summary report of everything



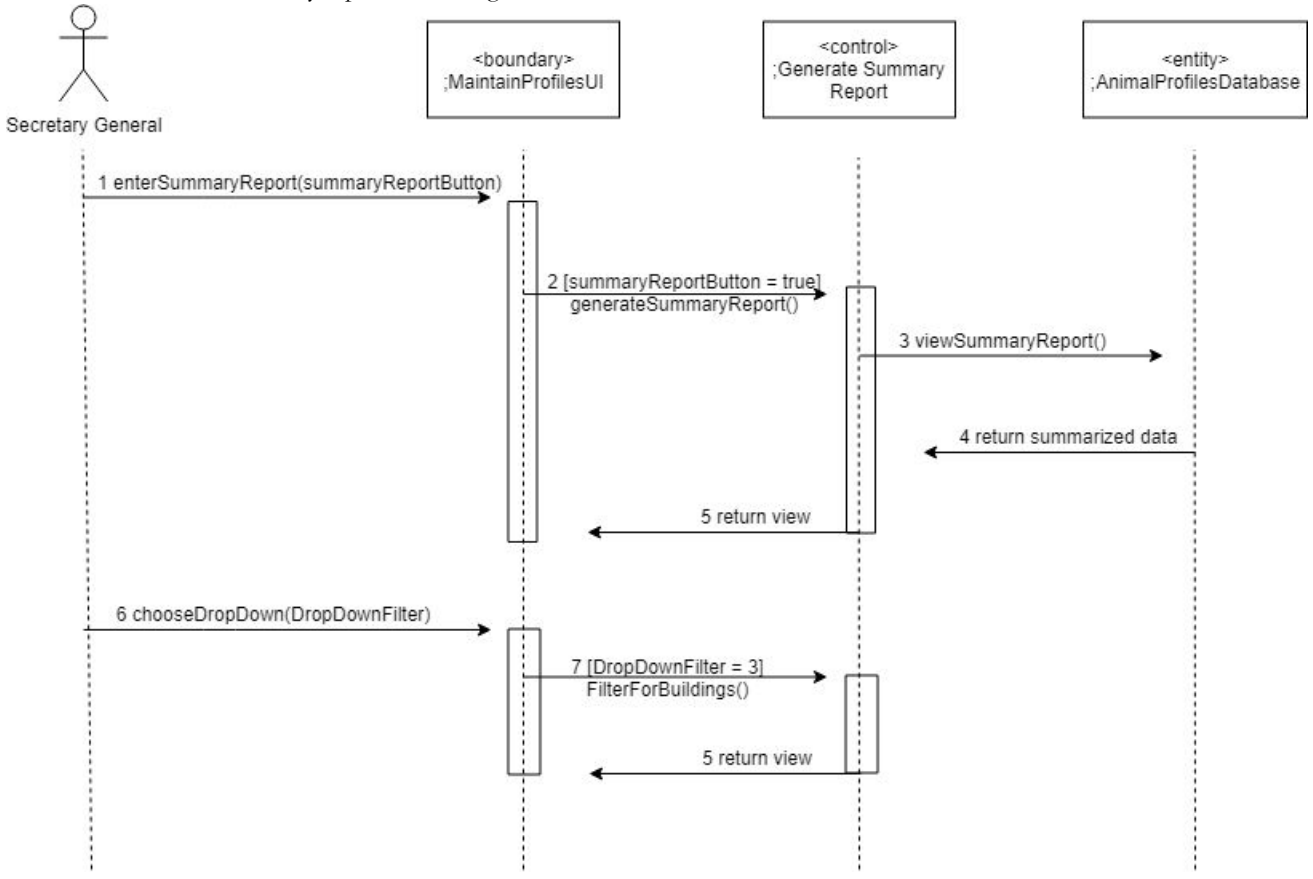
Scenario 2: Generate summary report for cats



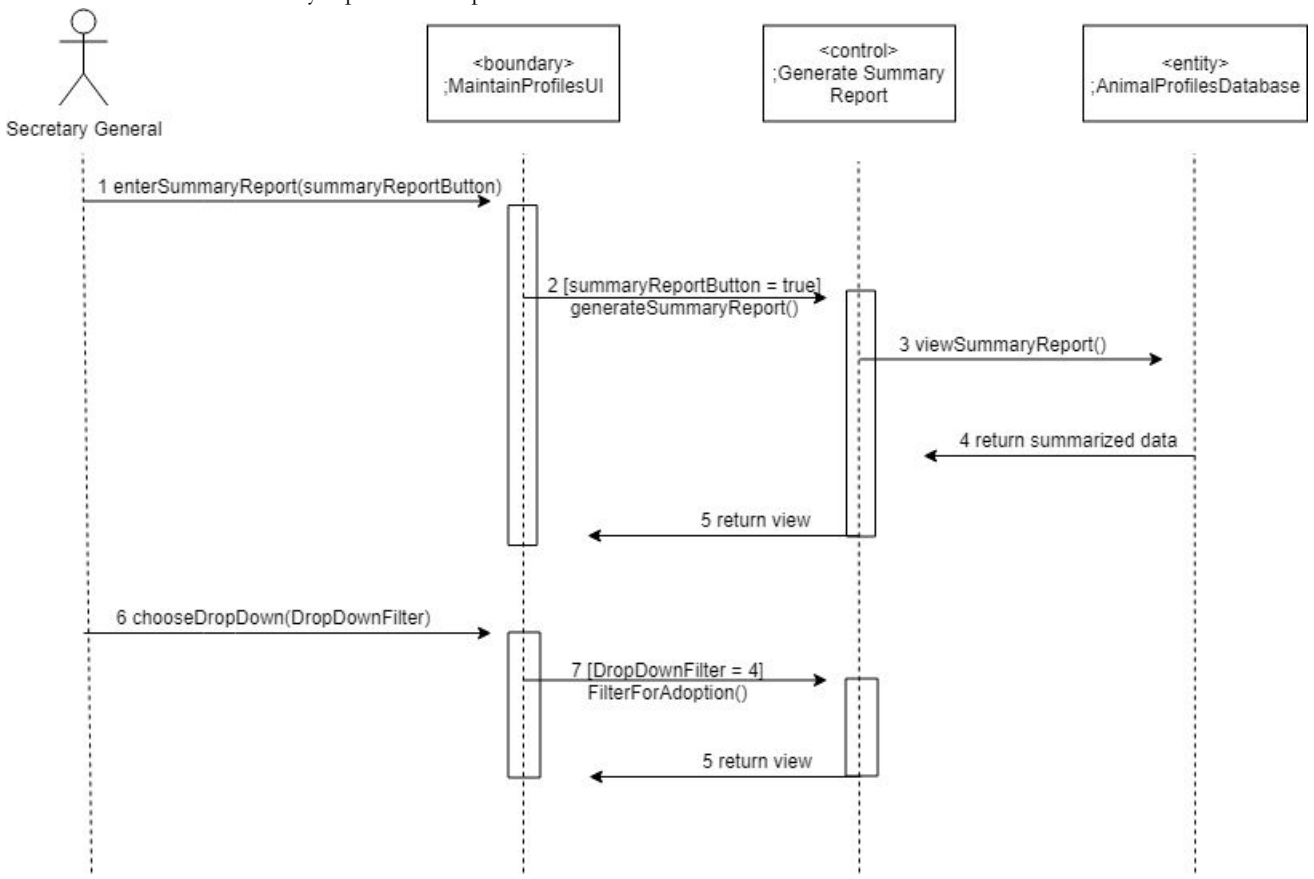
Scenario 3: Generate summary report for dogs



Scenario 4: Generate summary report for Colleges and Dormitories



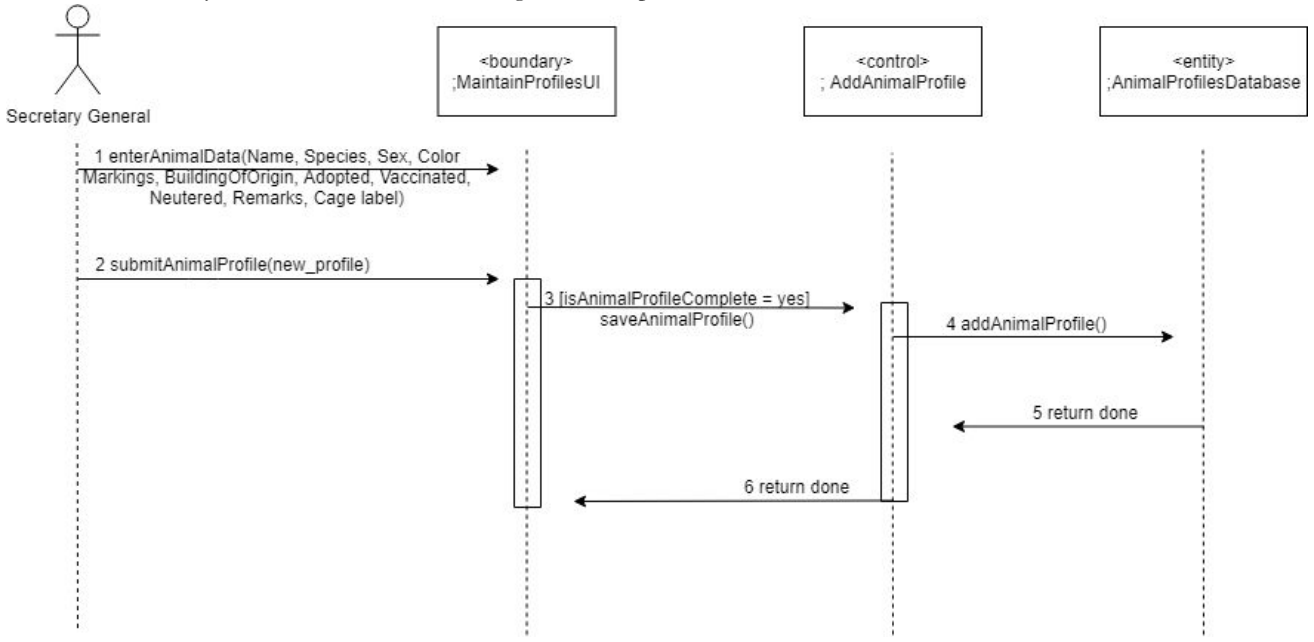
Scenario 5: Generate summary report for adoption cases.



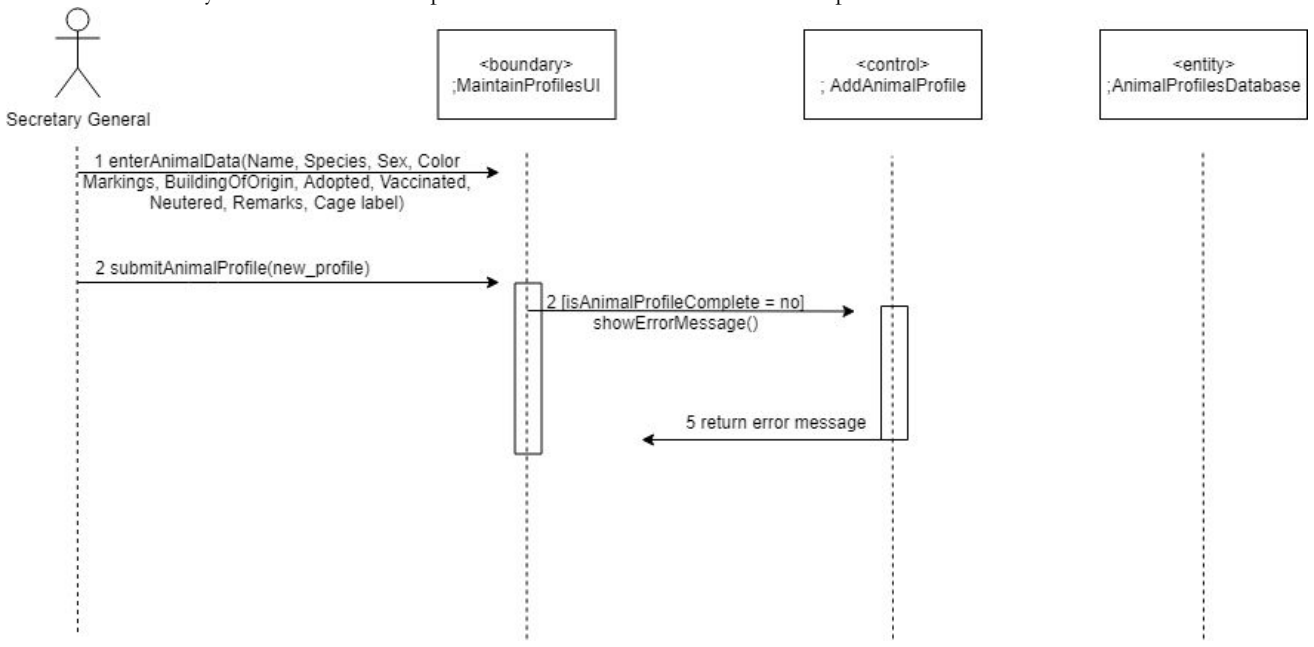
***Use-Case Name*:** Maintain Profiles

Description: Secretary General or encoder wants to maintain the animal profiles by adding, editing or deleting profiles. The encoding staff has a limited number of features available while the Secretary general has full access to the features.

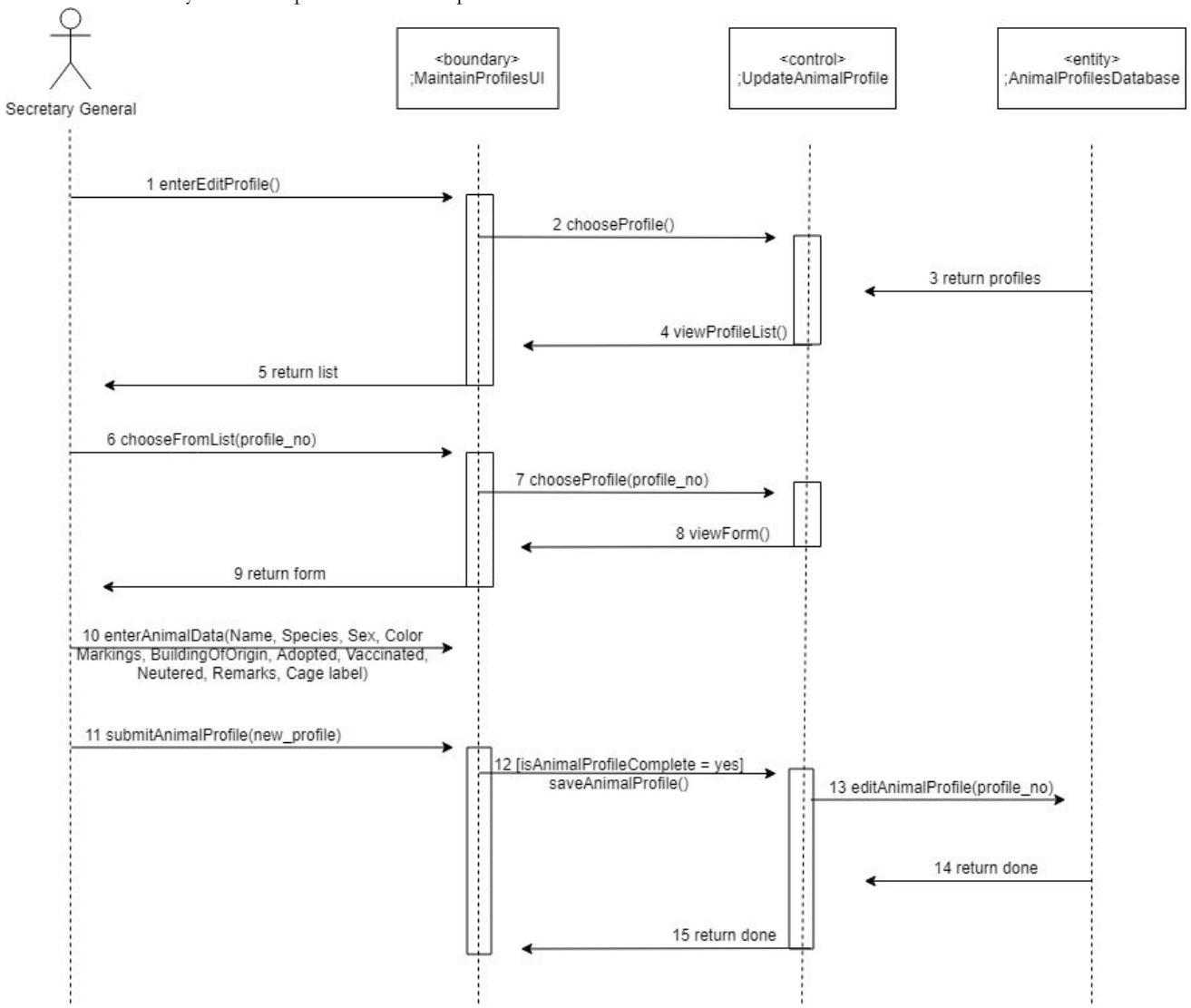
Scenario 1: Secretary General, basic flow of adding an animal profile.



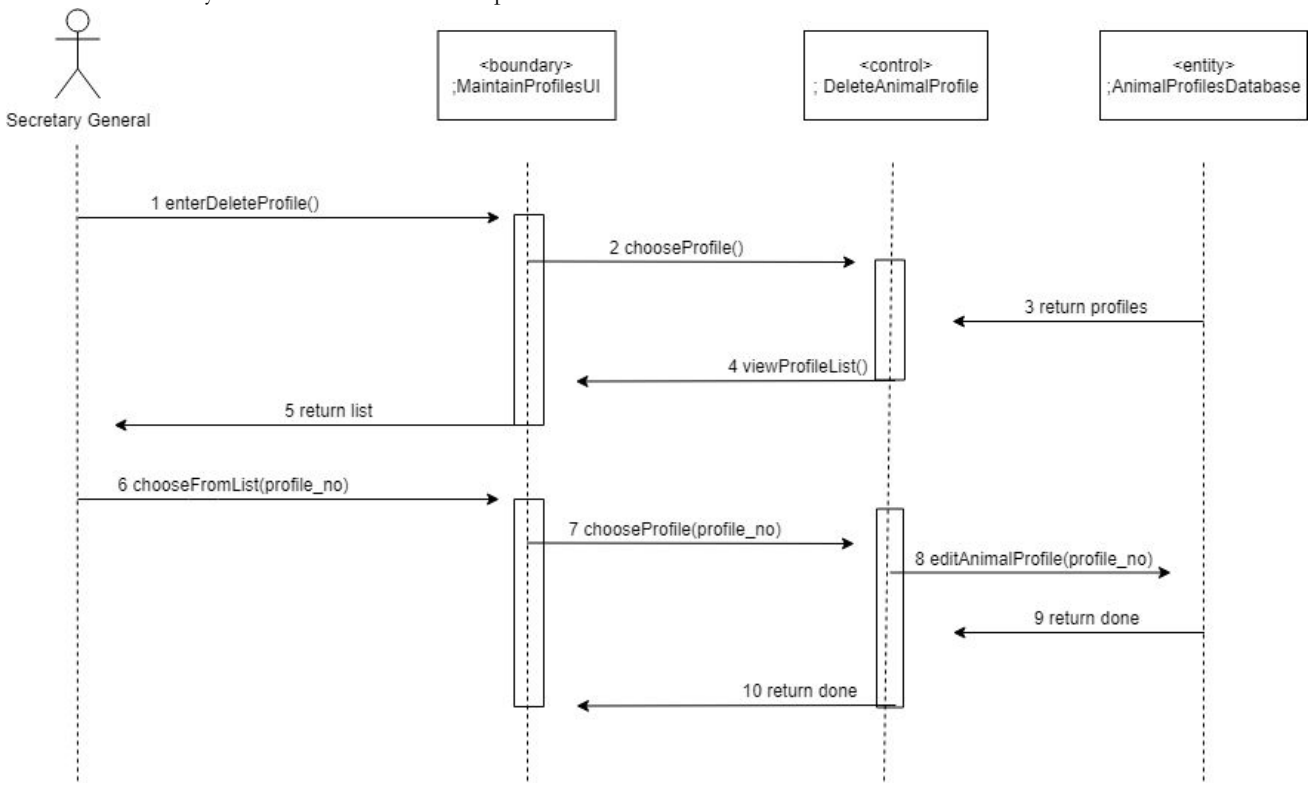
Scenario 2: Secretary General adds incomplete or insufficient data on the animal profile.



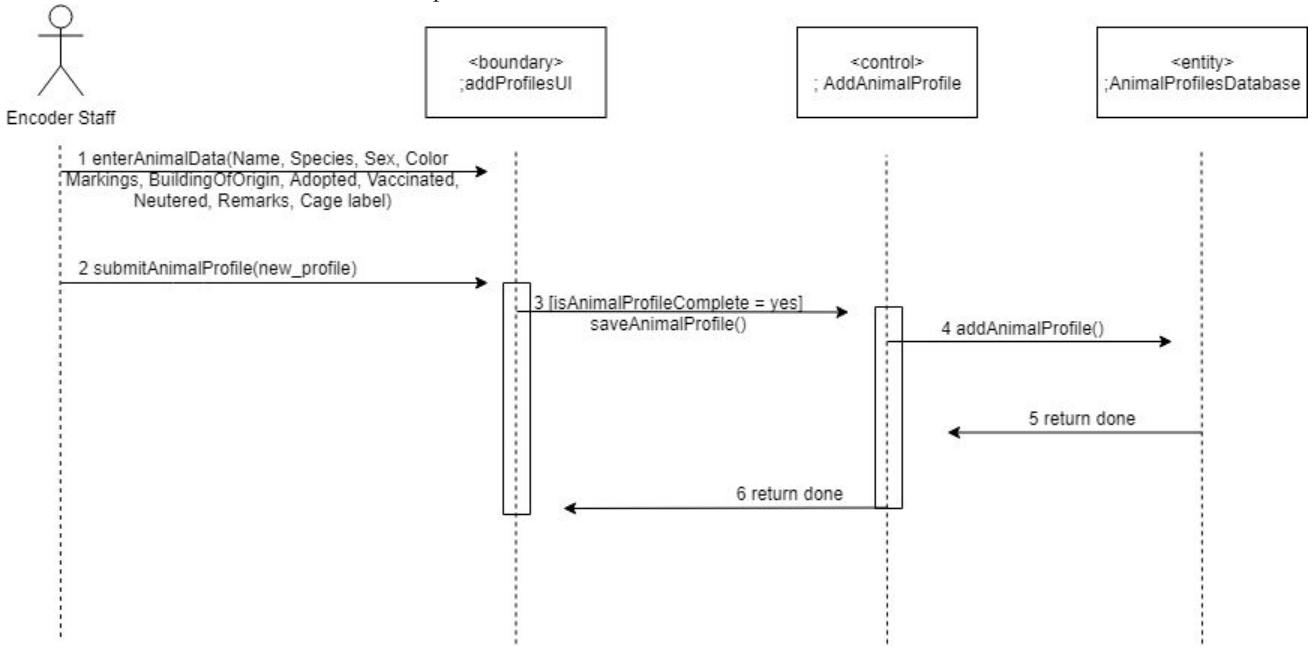
Scenario 3: Secretary General updates an animal profile.



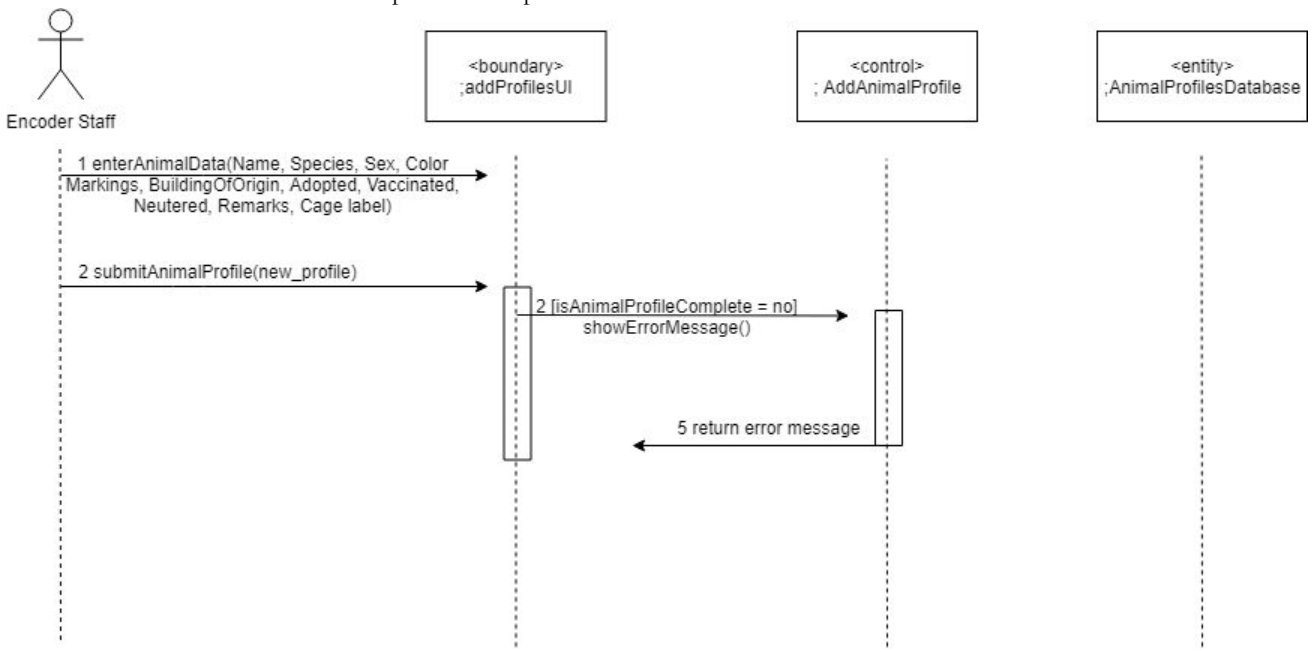
Scenario 4: Secretary General deletes an animal profile.



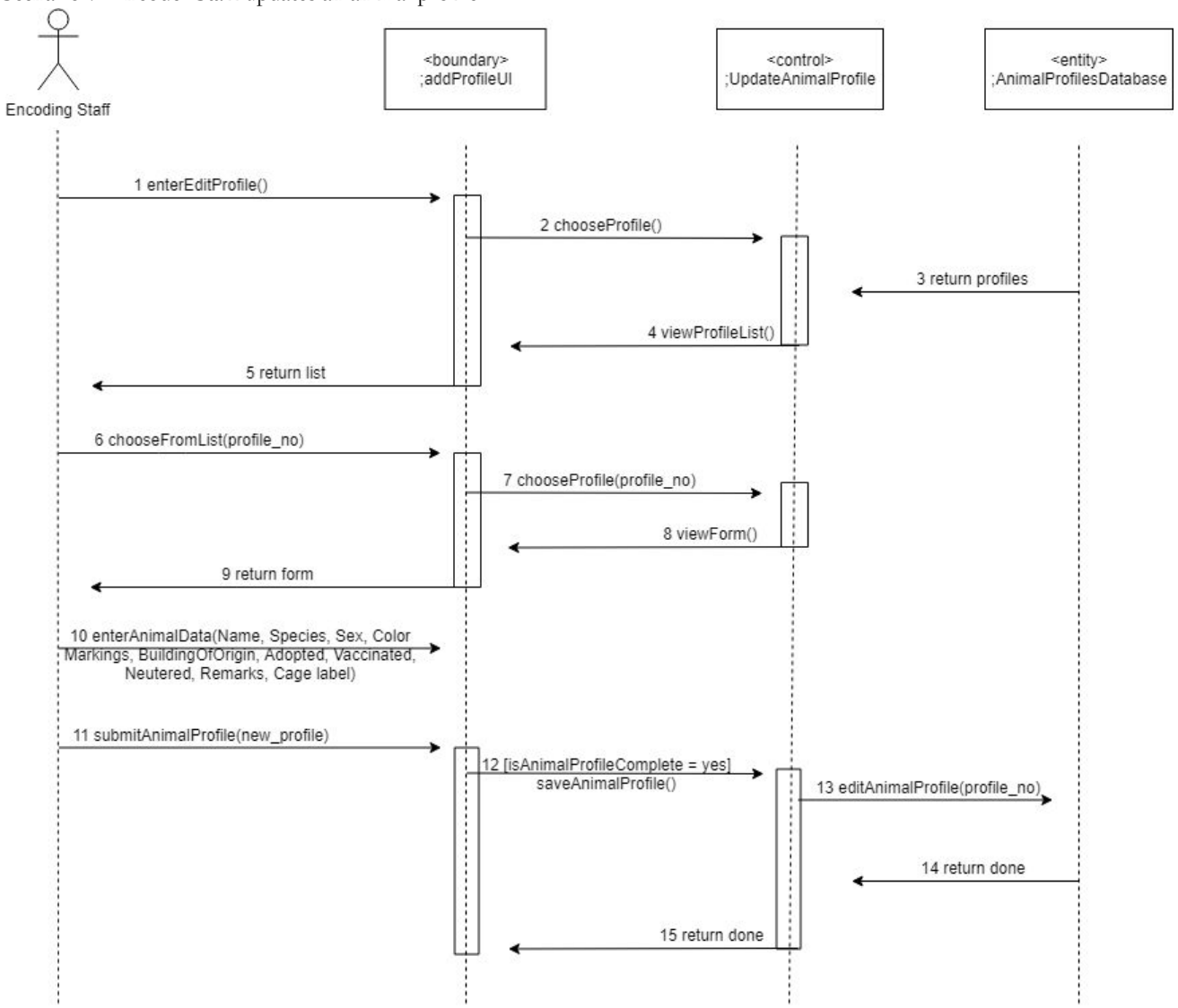
Scenario 5: Encoder Staff adds an animal profile



Scenario 6: Encoder Staff adds incomplete animal profile

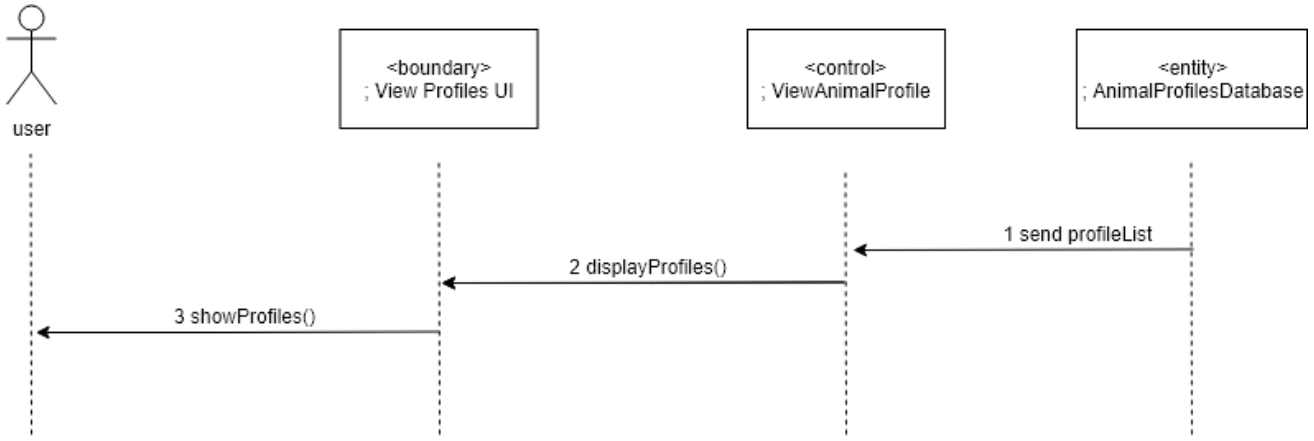


Scenario 7: Encoder Staff updates an animal profile



***Use-Case Name*:** View Profile
Description: All visitors of the web application may view and search through the profiles

Scenario 1: A user (administrator, regular, or anonymous) views a profile



Scenario 2: A user applies filters to show only profiles that satisfy provided conditions set by that same user