# Digital Zoo Project - Week 3

Abdellah Sabhi
Jalal Mammadov
Hazal

# Project Overview

- Main Task:

  In Week 3, we focused on enhancing functionality and improving the user experience of our zoo management system.

- Week 3 Objective:
  - Add multiple memberships and assign each tier benefits
  - Create methods to add visitors as members, renew memberships and add member exclusive features
  - Create special events and make members receive an invitation
  - Create event logistics

# Features:

User Interaction:
- Dropdown menus for species and habitats now pull data dynamically from the database.
- Forms prevent incorrect data entry.

Animal & Habitat Management:
- UI improvements ensure clear visibility of animals and their linked habitats.
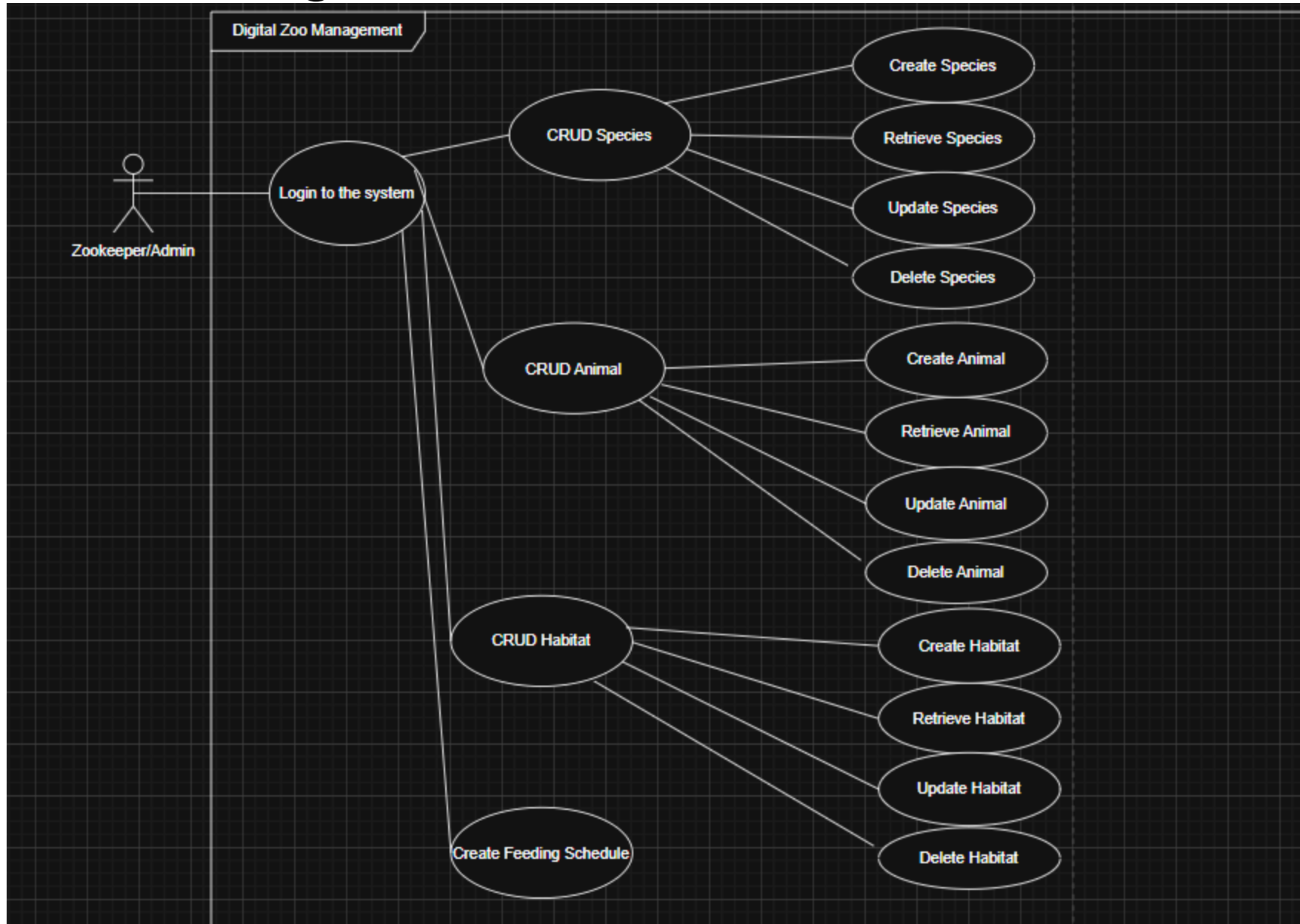- Users can now correctly assign species and habitats to animals.

Feeding Schedule Management:
- Feeding schedules now fetch and display correctly.
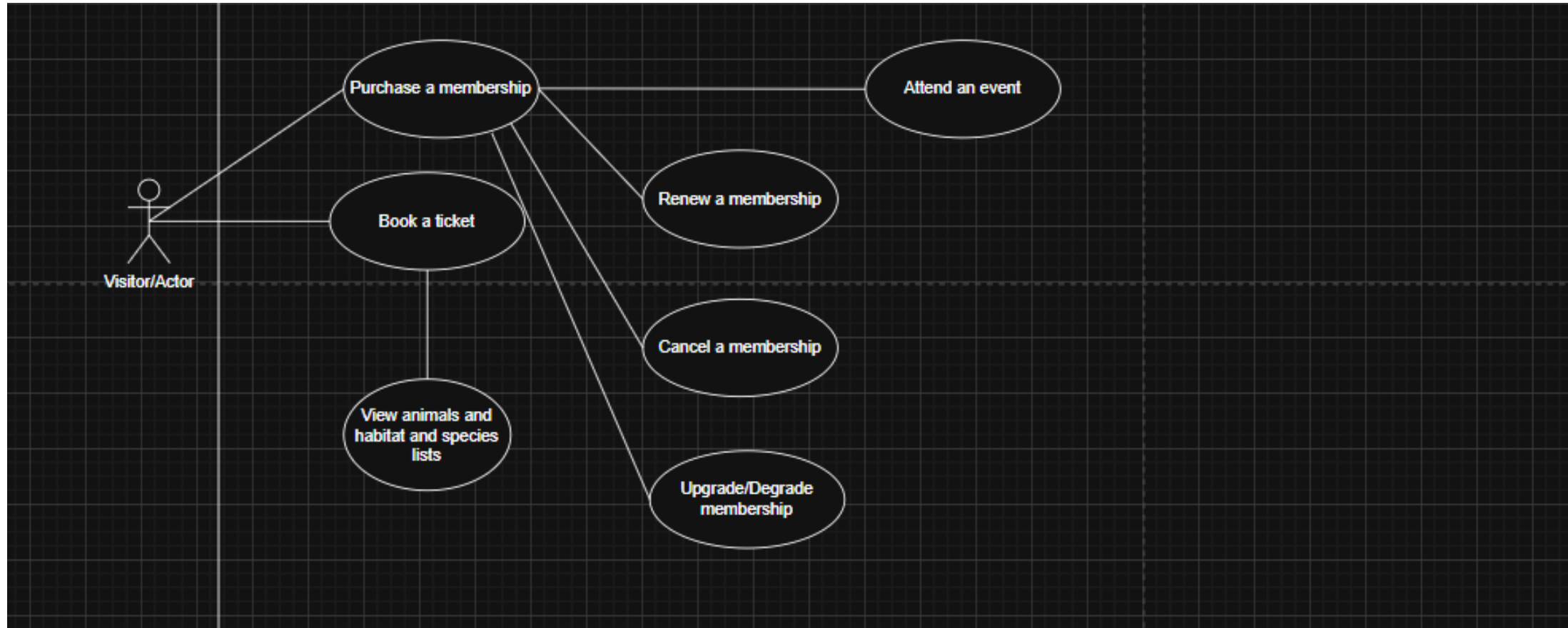- Improved layout for better readability.

Ticketing System:
- Tickets now store correct visitor names and expiry dates.
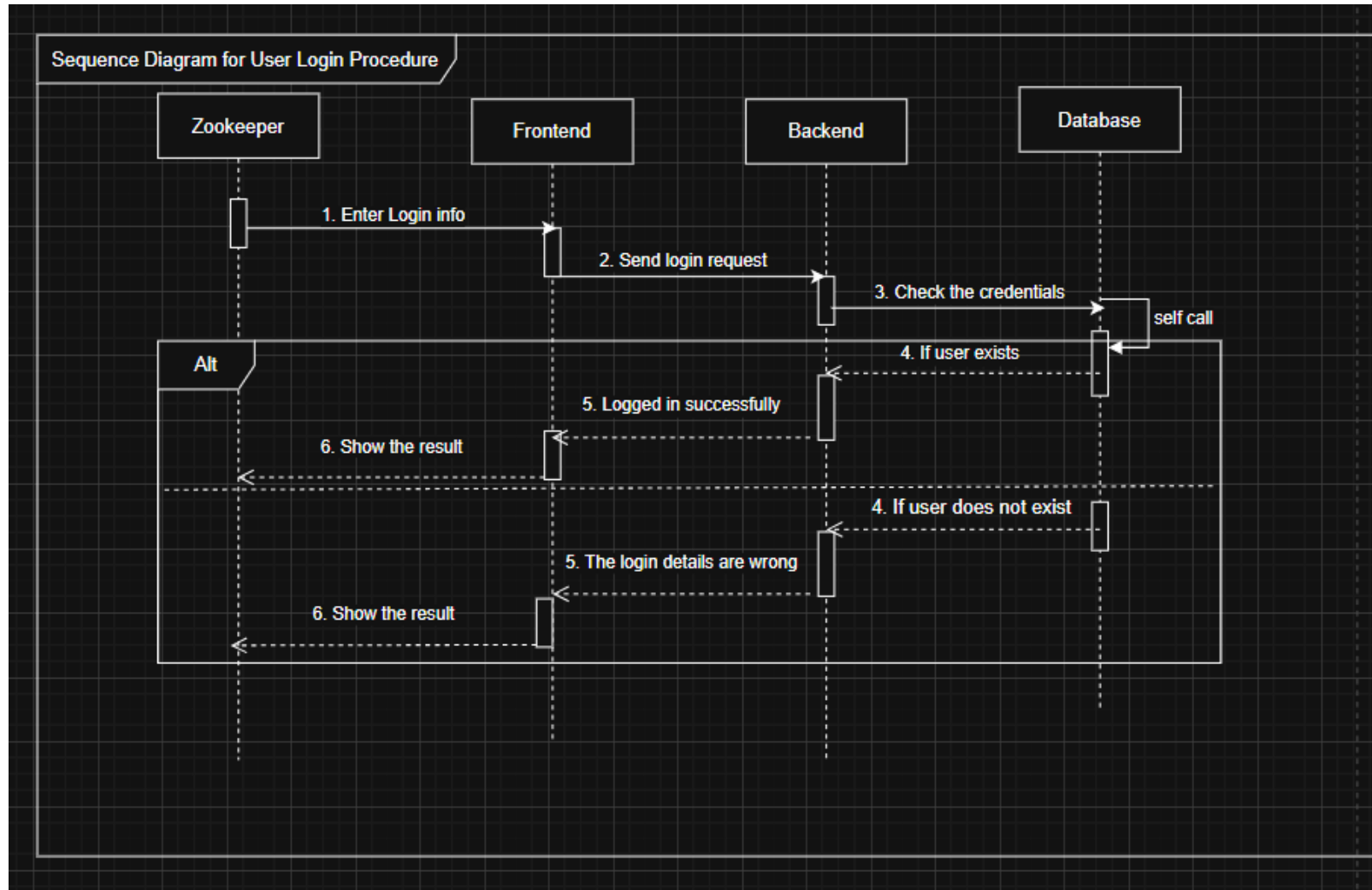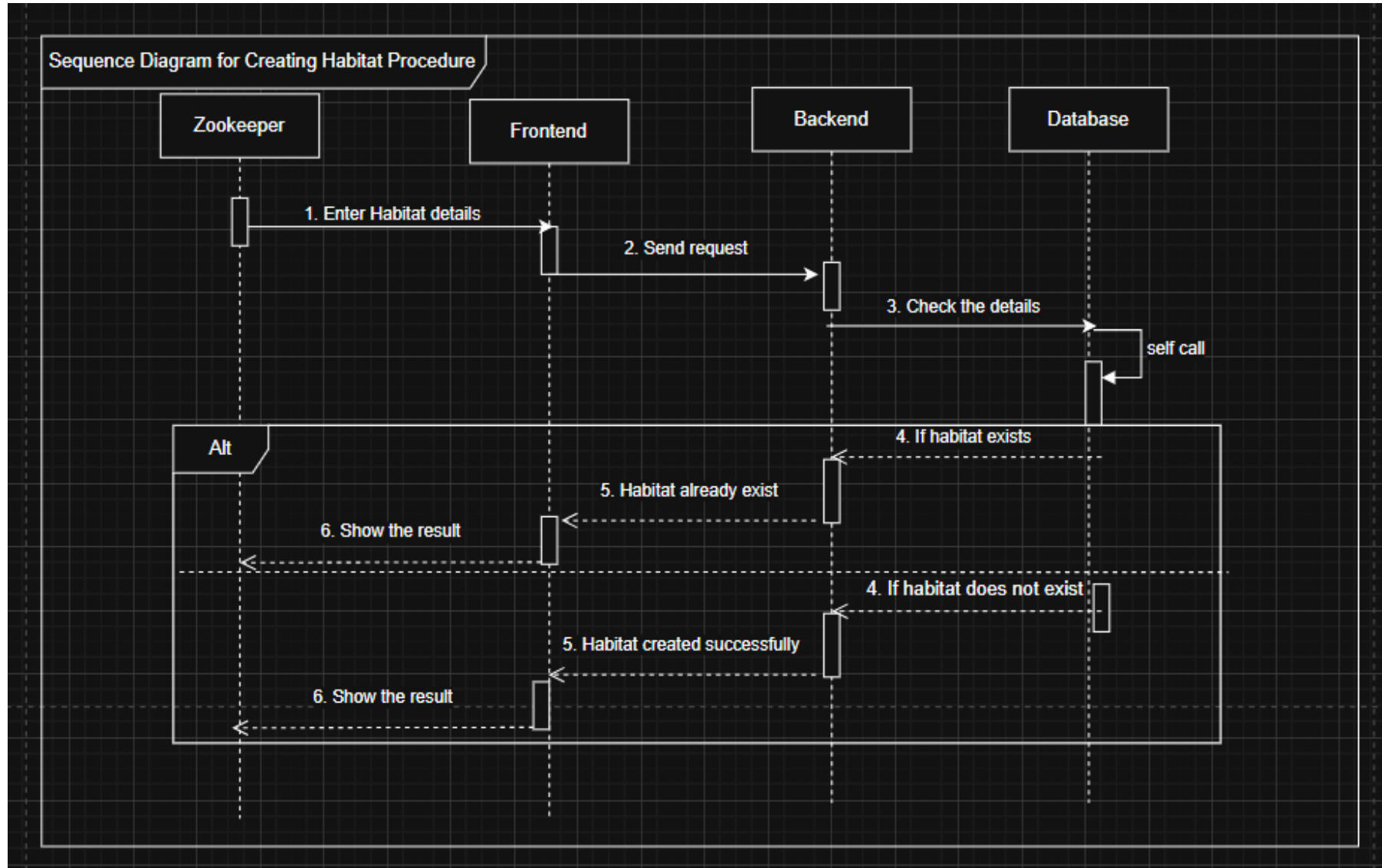- Improved validation to prevent invalid ticket creation.
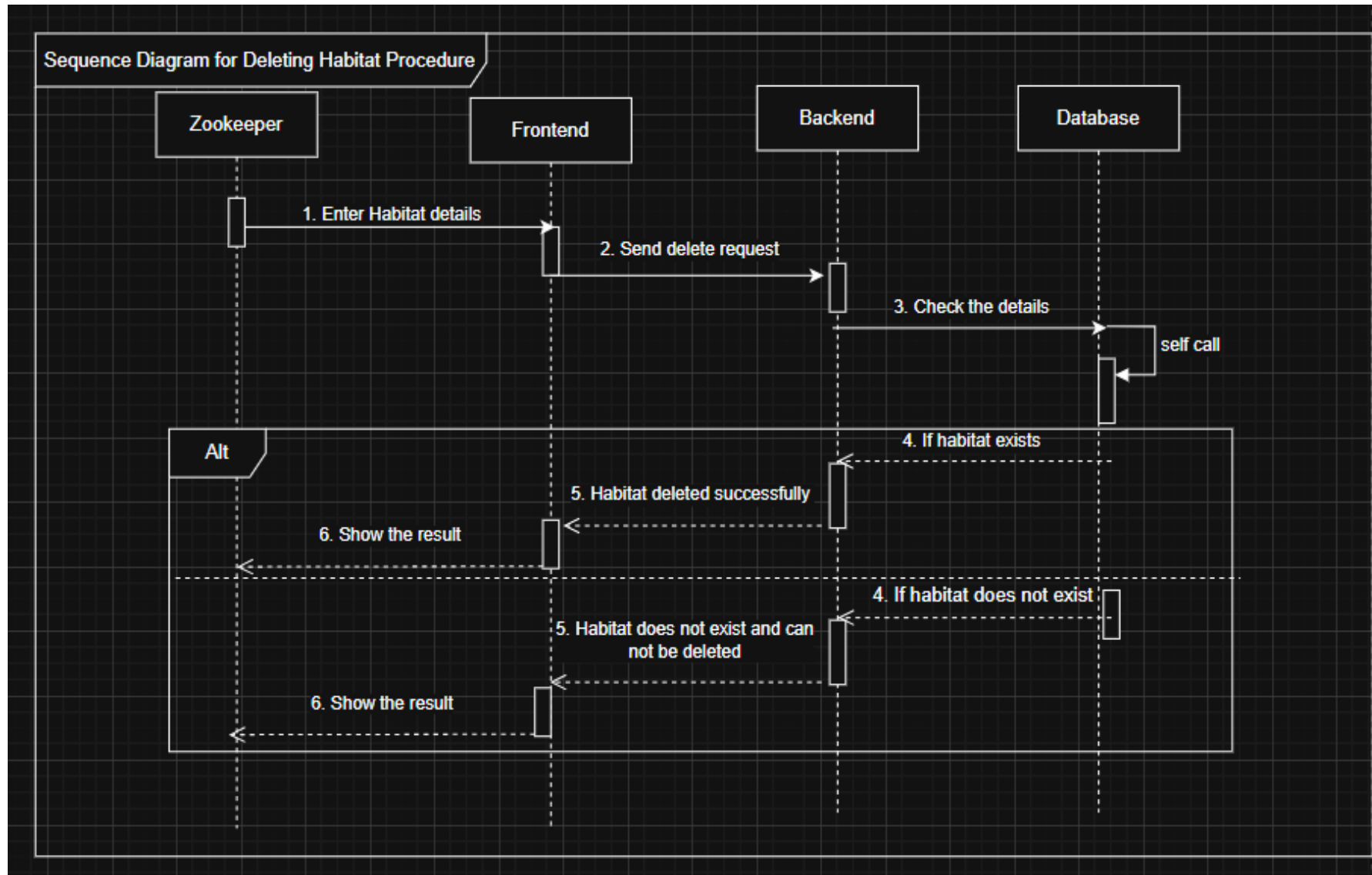
# Use case Diagram:
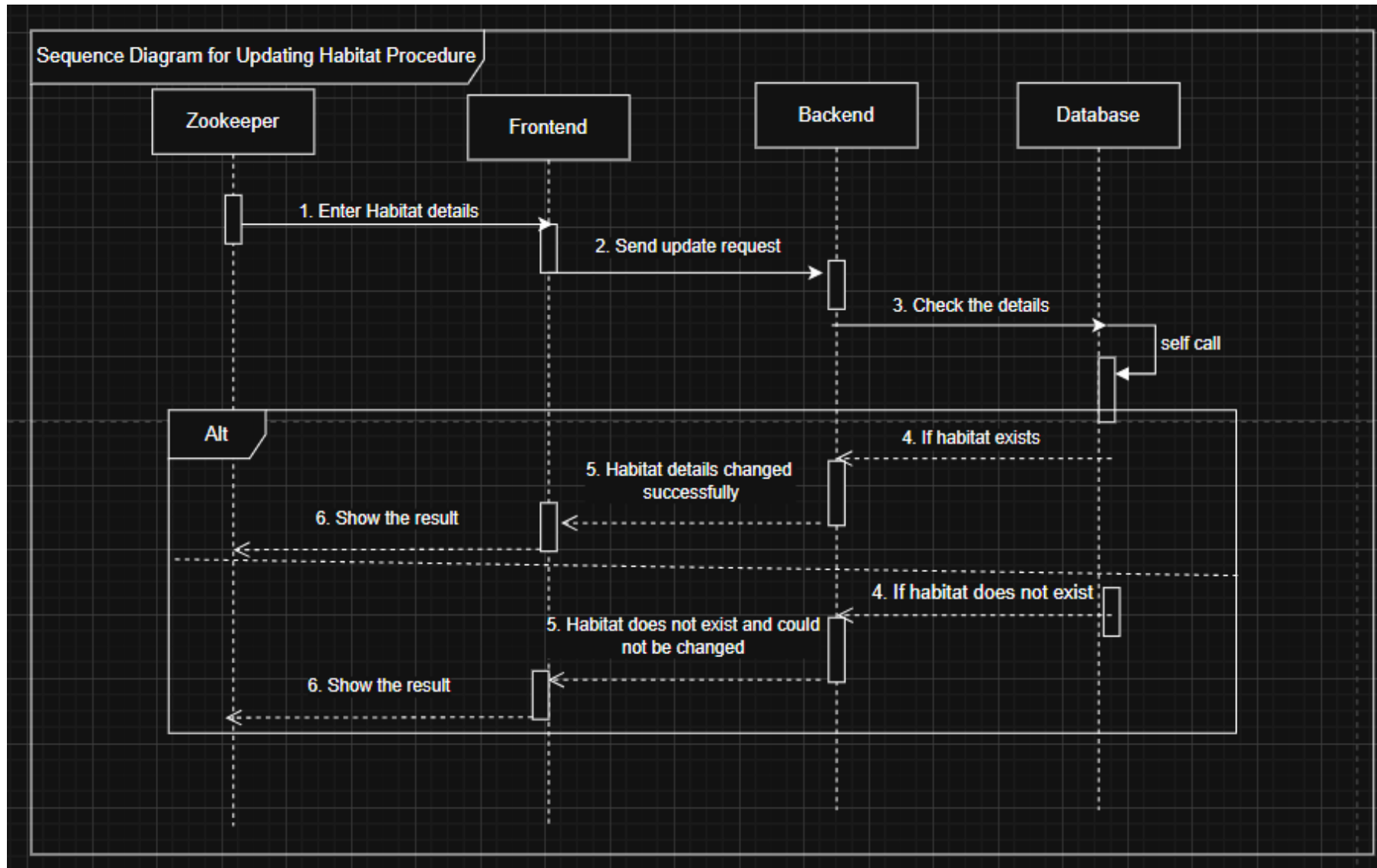
# Use case Diagram:

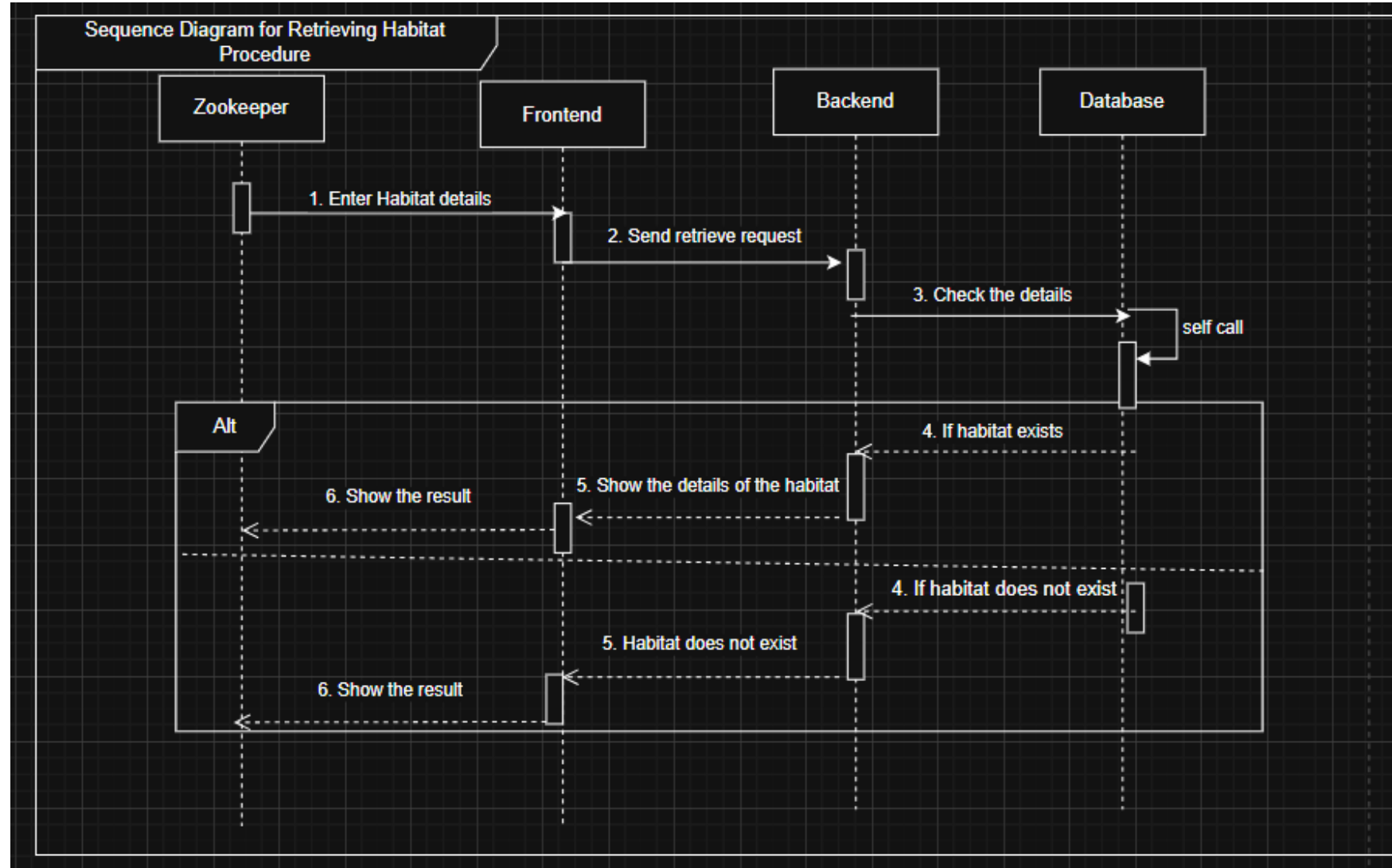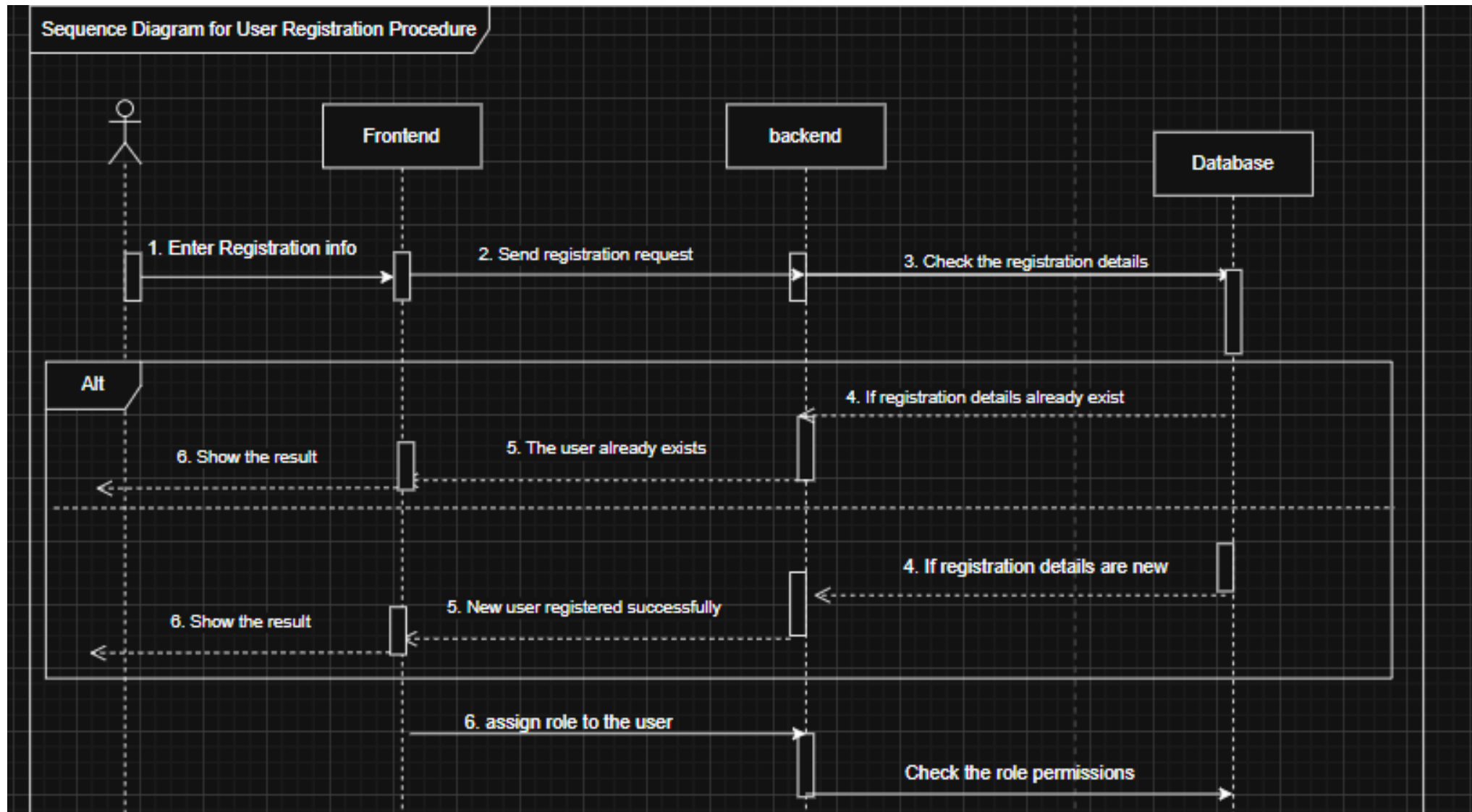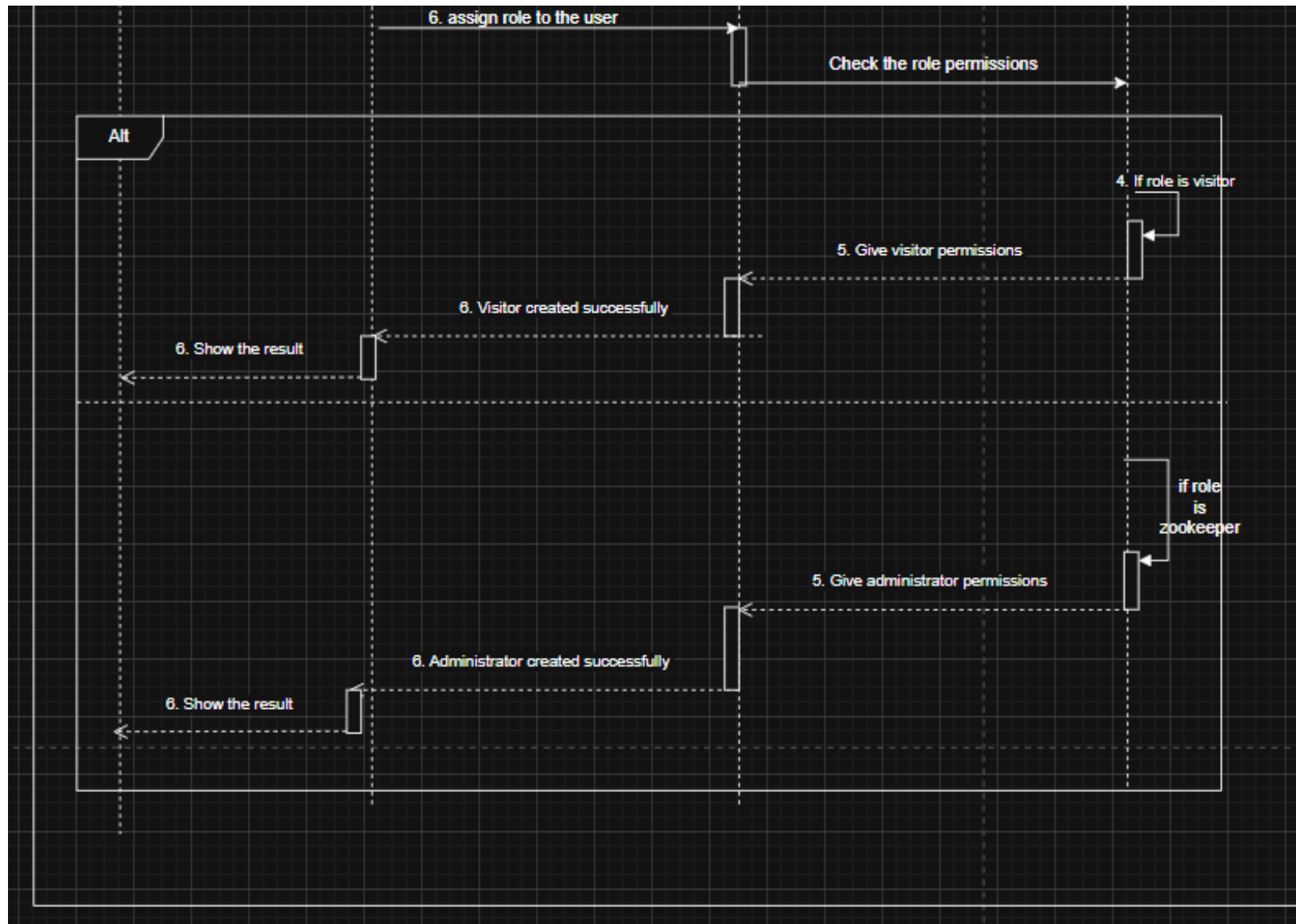# Sequence diagram

# Sequence diagram

# Sequence diagram

# Sequence diagram

# Sequence diagram

# Sequence diagram



Sequence Diagram for User Registration Procedure

Frontend
backend
Database

1. Enter Registration info
2. Send registration request
3. Check the registration details

Alt

4. If registration details already exist
6. Show the result
5. The user already exists

4. If registration details are new
5. New user registered successfully
6. Show the result

6. assign role to the user
Check the role permissions

# Sequence diagram

# Sequence diagram



Sequence Diagram for Animal Registration Procedure

Zookeeper — Frontend — Backend — Database

1. Enter Animal info
2. send request
3. Validate Data
self call

Alt

4. If animal exists
5. Animal already exists
6. Show the result

4. If animal does not exist
5. Animal added succesfully
6. Show the result

# Sequence diagram

# Sequence diagram
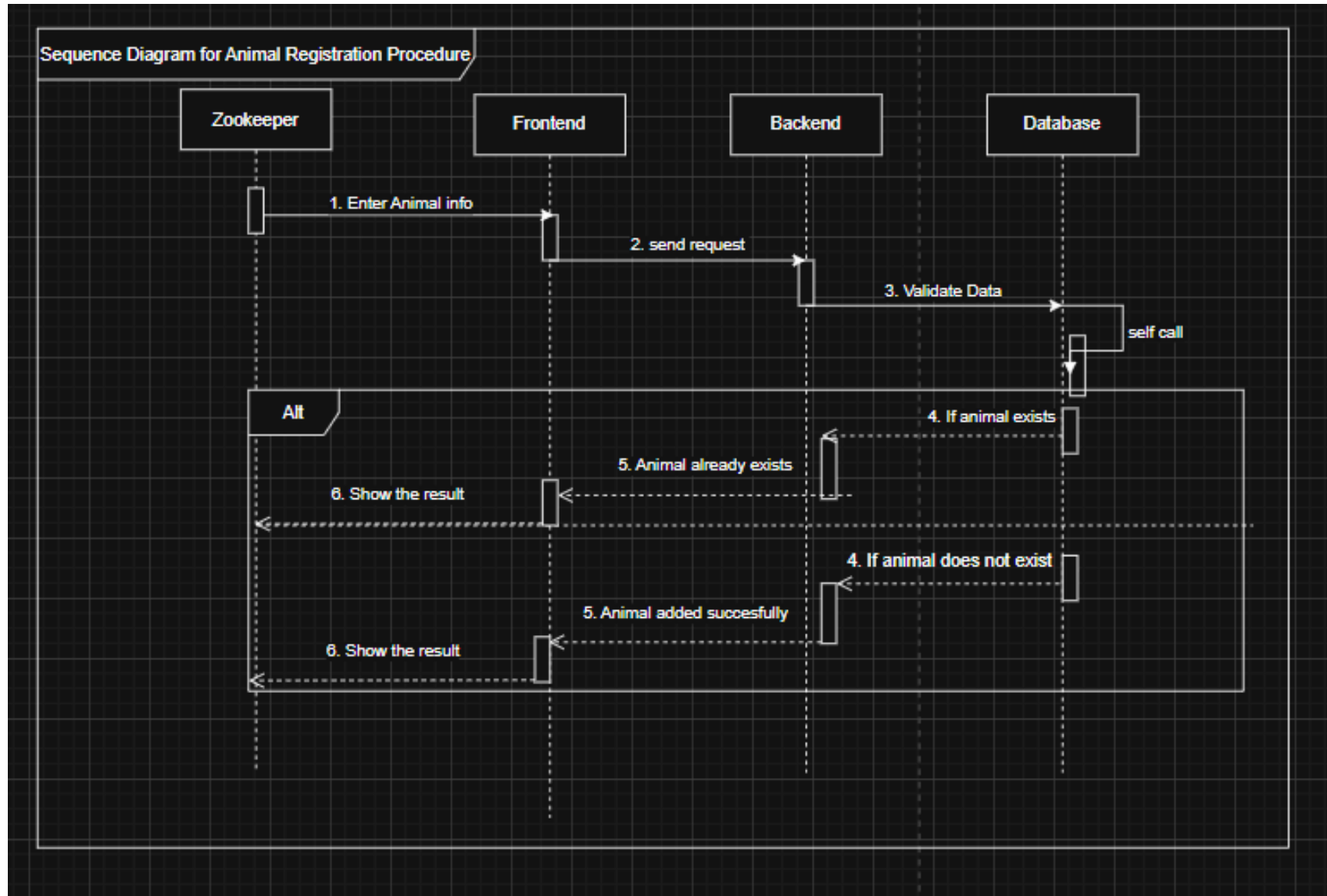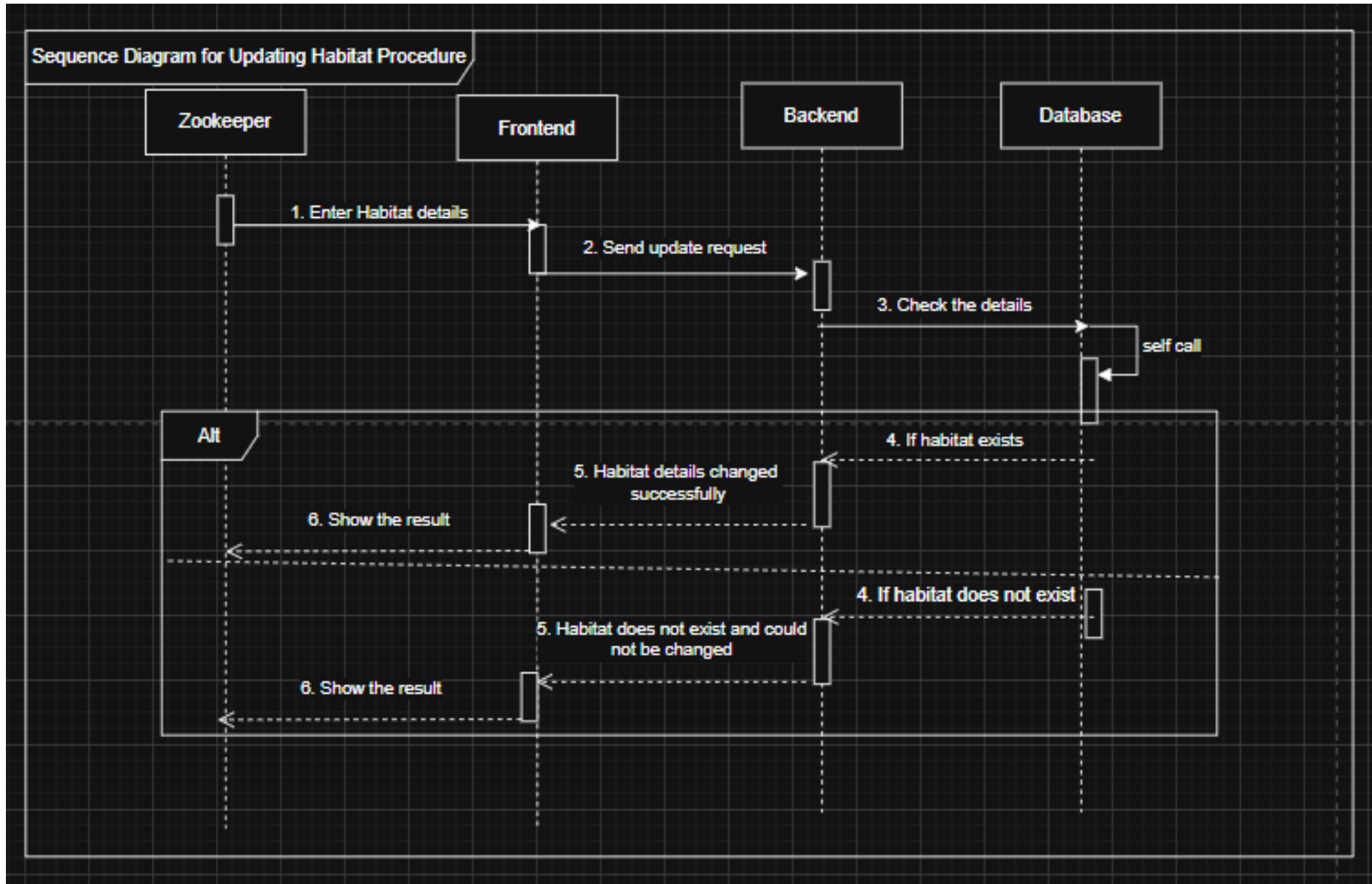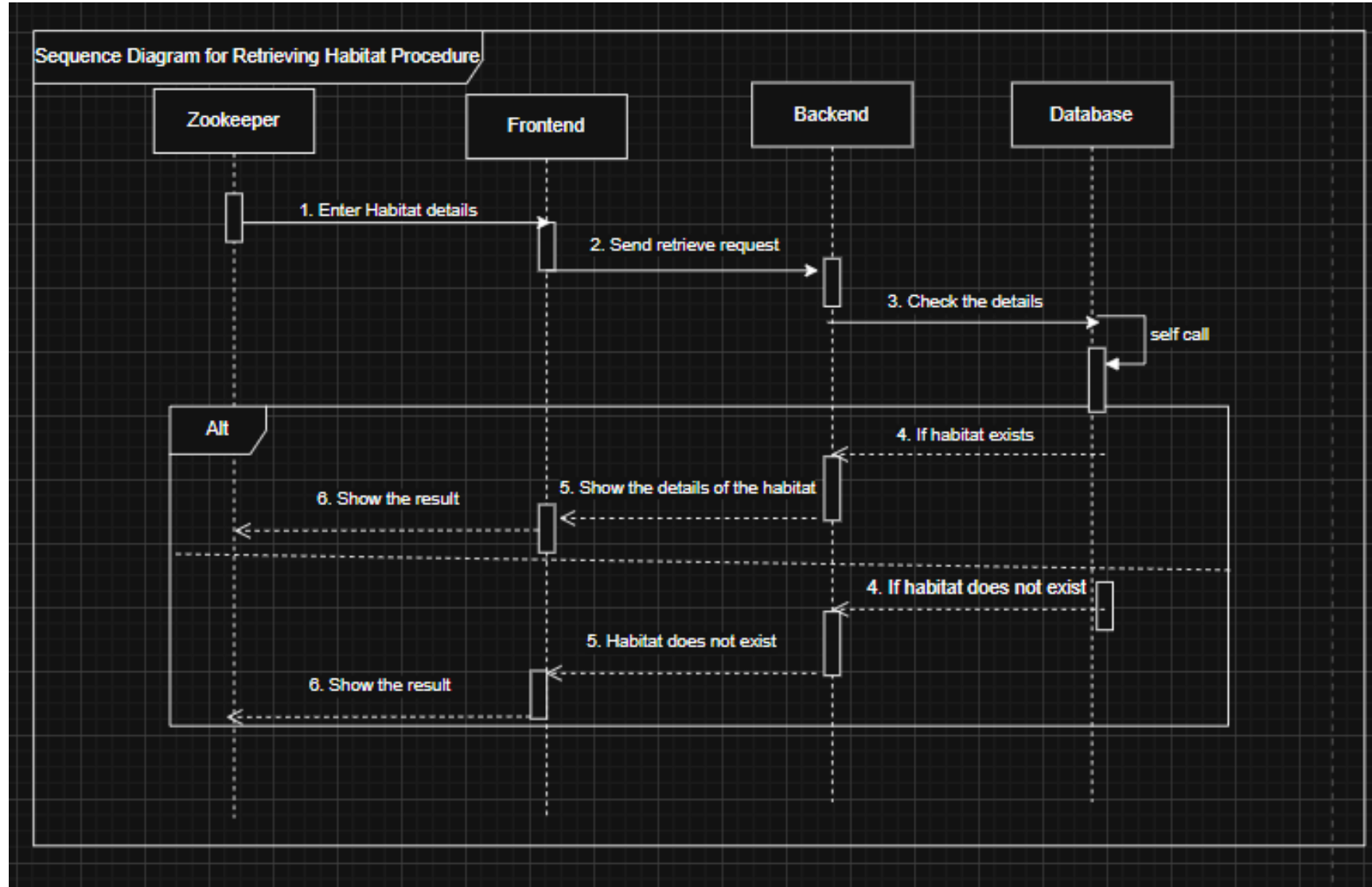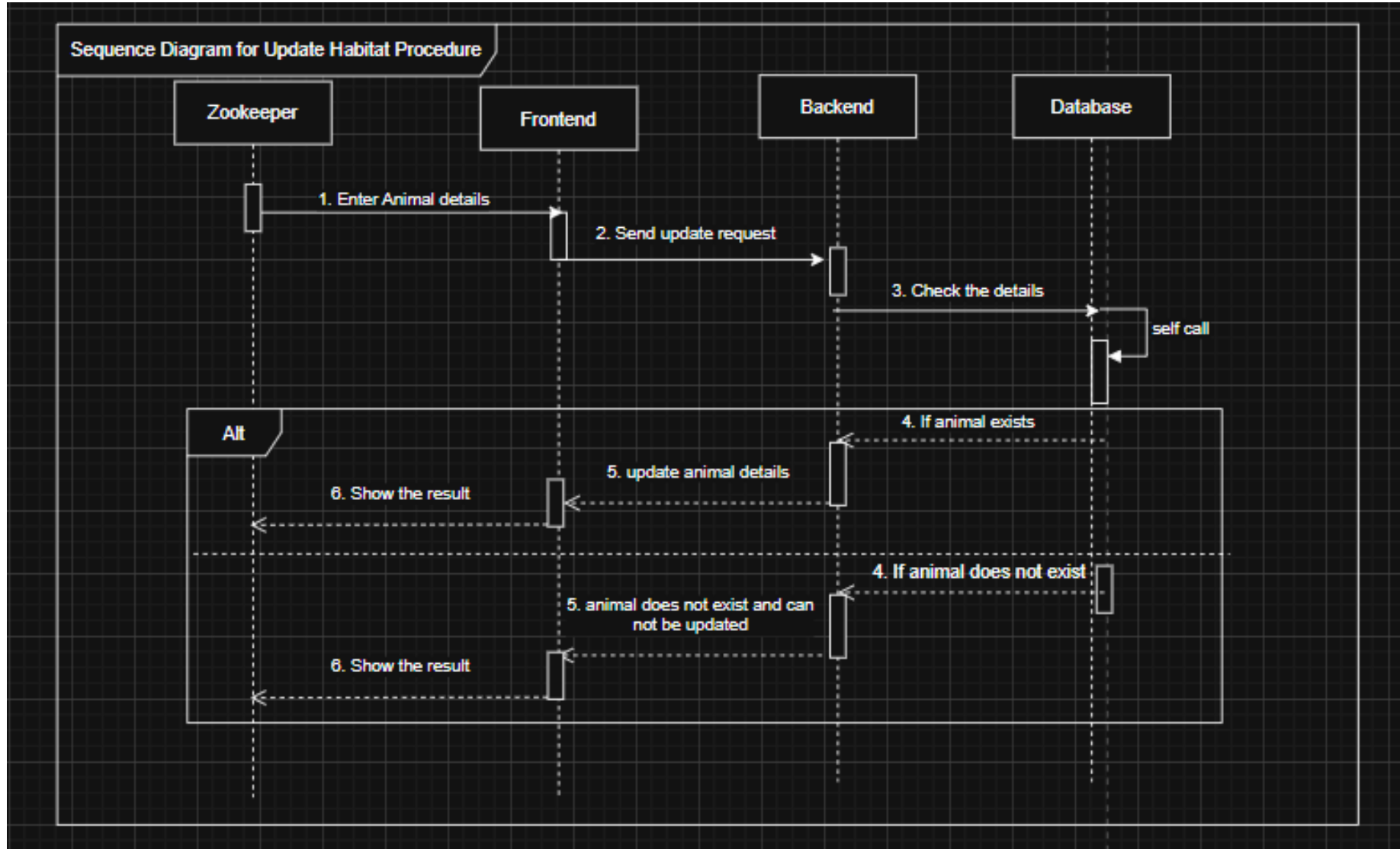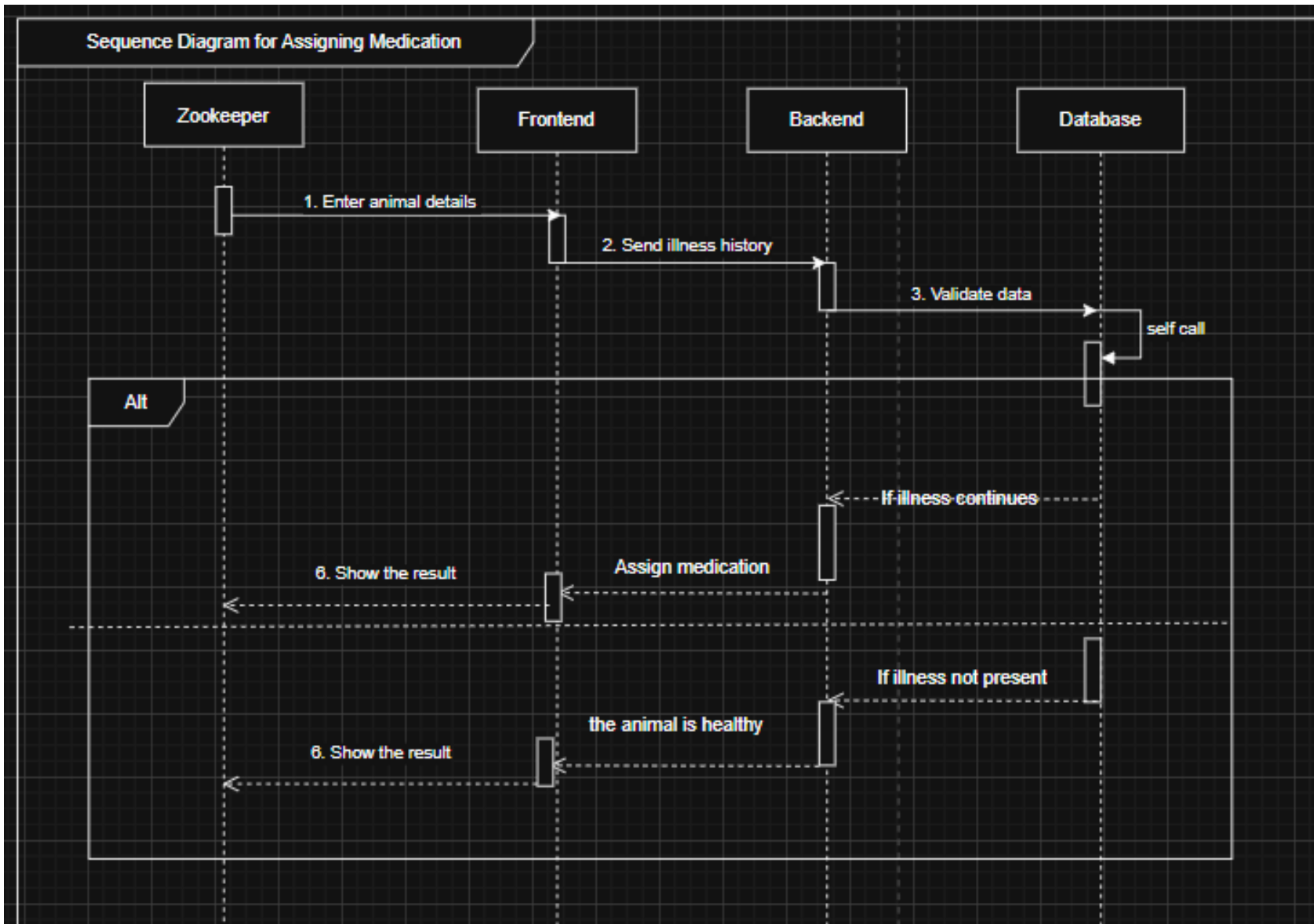
# Sequence diagram

# Sequence diagram



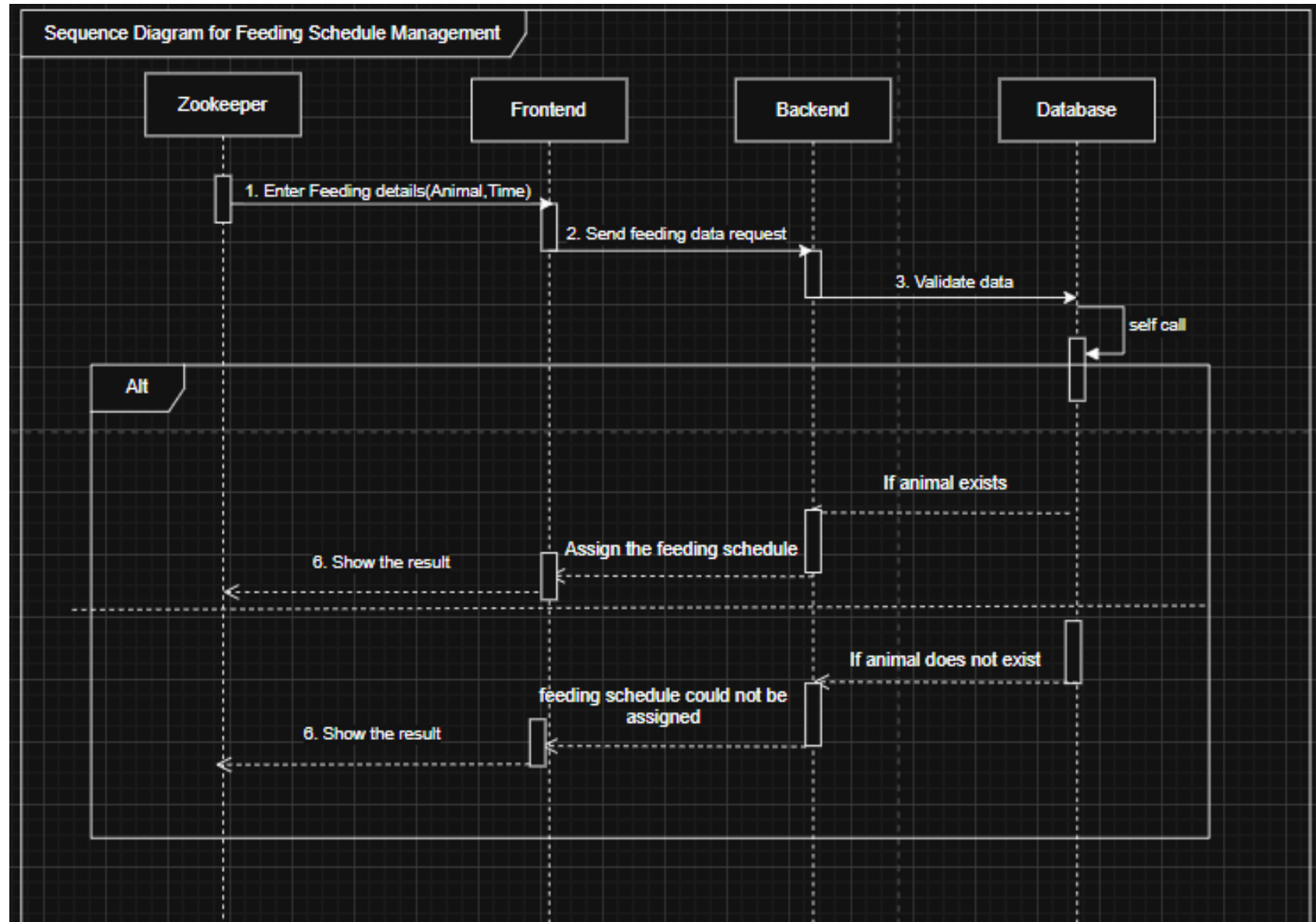Sequence Diagram for Assigning Medication

Zookeeper | Frontend | Backend | Database

1. Enter animal details
2. Send illness history
3. Validate data
self call

Alt

If illness continues
Assign medication
6. Show the result

If illness not present
the animal is healthy
6. Show the result

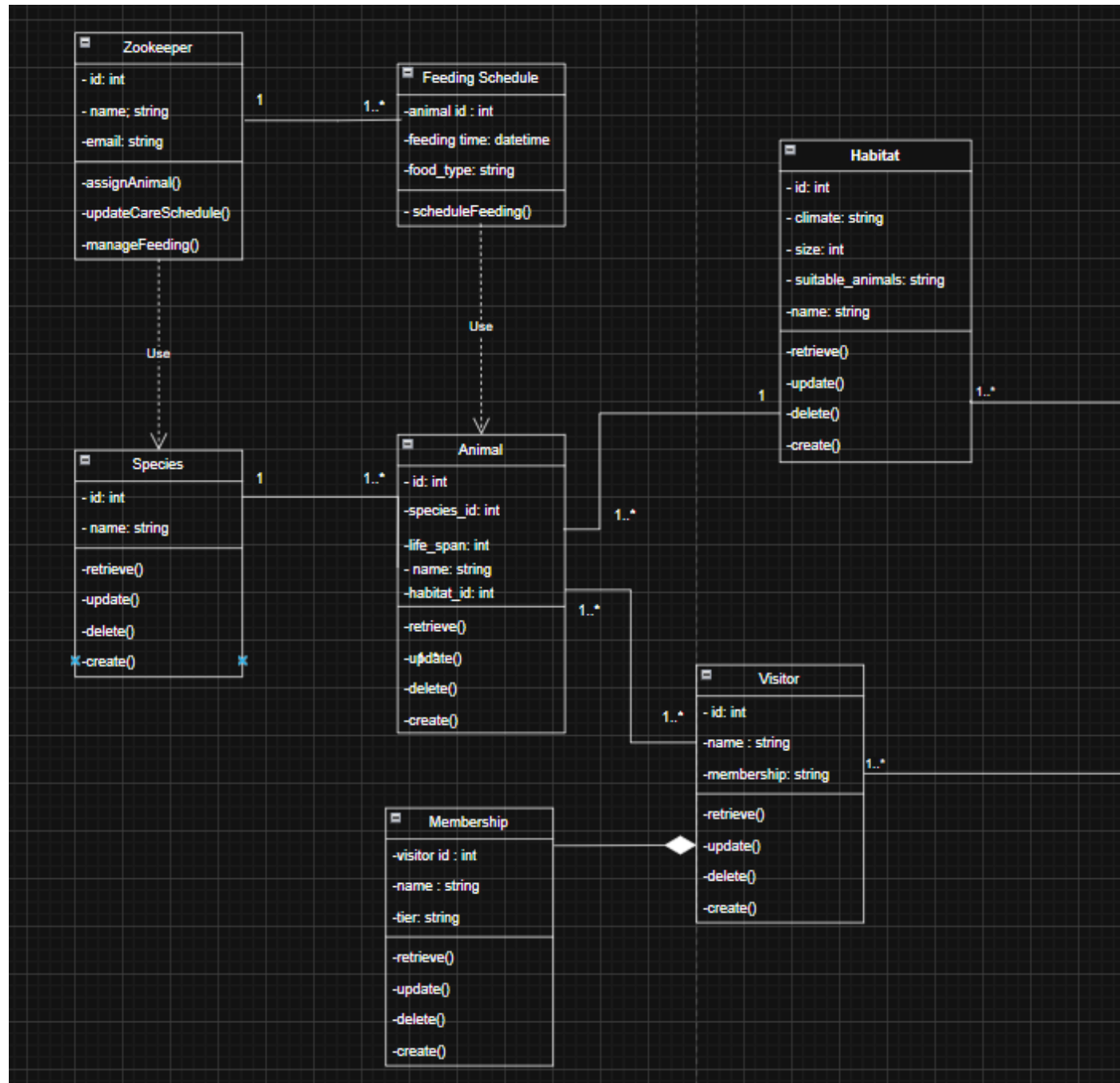# Sequence diagram

# Class diagram

# Challenges

Dropdowns for species and habitats were initially empty due to incorrect API calls.

White background made forms and buttons difficult to see.

# Next Steps

- Fix **authentication and authorization** issues.

- Add **error handling for missing or undefined states**.

- Implement **data validation & user role permissions**.