

# Animal Shelter Management

## Software Requirements Specification

### CEN3031, Fall, 2019

#### Modification history:

Version	Date	Who	Comment
v1.0	October 11, 2019	Ramzy El-Taher, Travis Gayle	Create initial version of SRS
v1.0.1	October 20, 2019	Ramzy El-Taher	Improved shall statements 1, 3, 8, 10, and 11
v1.0.2	October 20, 2019	Travis Gayle	Updated use case diagram, use case descriptions, assumptions and shall statements: #1, #3, #10, #11, #13

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## SECTION 1: Introduction

### Software to be Produced:

The software that will be produced is a management system that the workers of an animal shelter can use to keep track of their animals. This application will include an admin log-in page, which will allow the workers to access animal information as well as to manage the check-in/check-out screens. The application will also include a guest log-in page, which would give customers access to view any pets that are up for adoption. Guests will be able to view photos of the animals, as well as their description. They can also search for animals based on categories such as species and age.

#### Definitions, Acronyms, and Abbreviations:

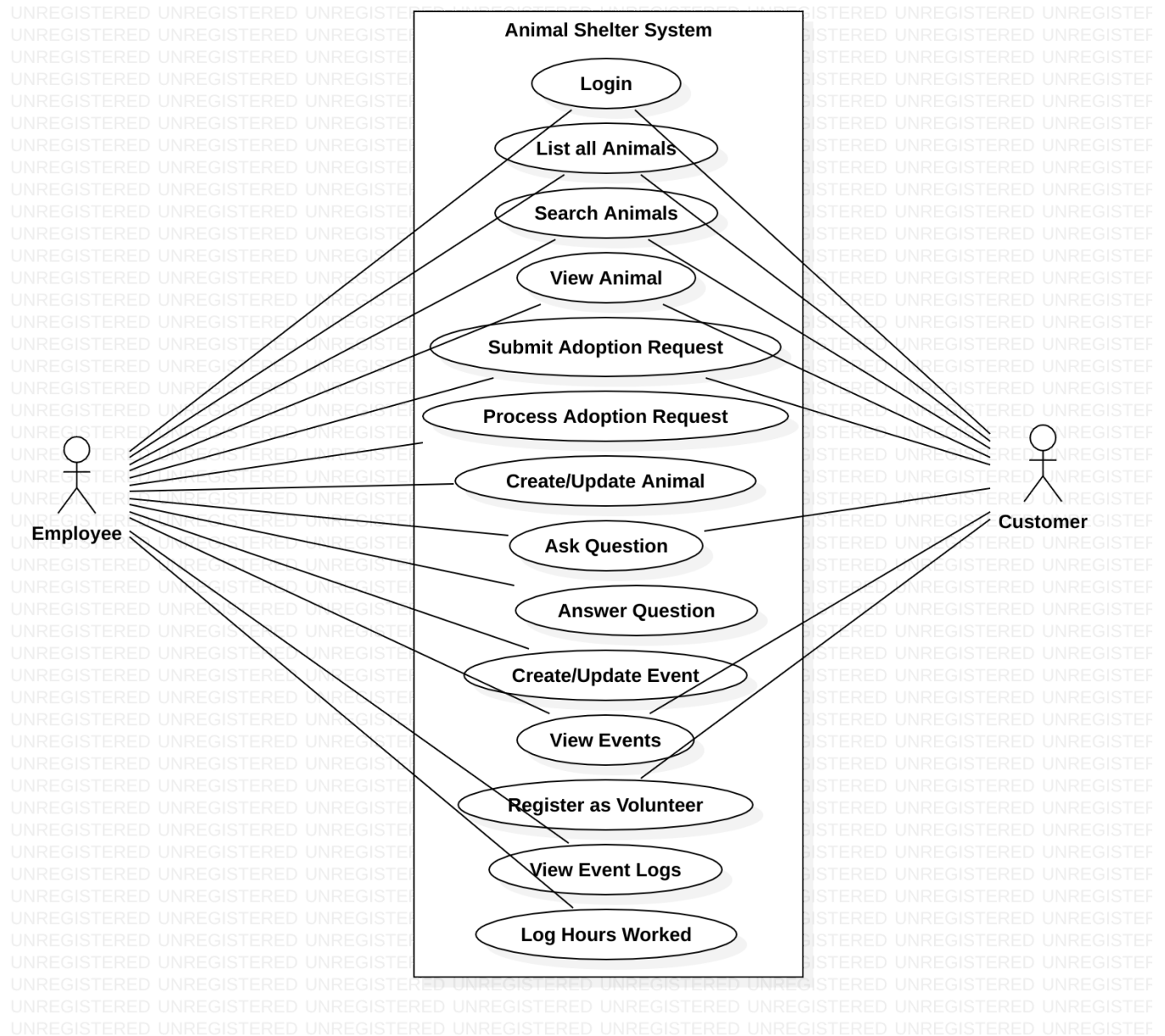
- **Animal:**
  - A living biological creature that has been or is currently under the management of the shelter. Animals are characterized by the following properties: name, date of birth, height, weight, vaccines, level of aggression, level of animal service training, species, breed, gender, color, date of adoption, and date of arrival at the shelter.
- **Employee:**
  - An employee of the animal shelter.
- **Volunteer:**
  - A customer volunteering their services at the shelter.
- **Customer:**
  - A person who is not employed by the animal shelter.

## **SECTION 2: Product Overview**

#### Assumptions:

- This software will use Java 8, [JavaFX](#) and [SQLite Java Database Driver](#)
- Java 8 is installed and available on the running computer.
- Minimum System Requirements:
  - Operating System: Windows 7, 8, 10, Mac OS X, or Linux
  - Processor: Intel Core 2 Duo or newer
  - Memory: 4GB
  - Storage: 200 MB or more

#### Use Case Diagram:



#### Use Case Descriptions:

- **Login:** Users can log into the system or create a new account.
- **List all Animals:** Users can view all animals managed by the shelter.
- **Search Animals:** Users can search for animals based on animal [properties](#)
- **View Animal:** Users can view information about a specific animal.
- **Submit Adoption Request:** Users can submit requests to adopt an animal
- **Process Adoption Request:** Employees can approve or reject an adoption request
- **Create/Update Animal:** Employees can create, edit, and remove animals.
- **Ask Question:** Users can send a question to be answered by the shelter.
- **Create/Update Event:** Employees can create, update, and remove events.

- **View Events:** Users can view events scheduled by the shelter depending on their status (customer, volunteer, or employee)
- **Register as Volunteer:** Customers can register to become a volunteer
- **View Event Logs:** Employees and view logs about actions other users have done.
- **Log Hours Worked:** Employees and Volunteers can log the number of hours they've worked for a day.

### SECTION 3: Specific Requirements

**No: 1**

**Statement:** The system shall allow customers, volunteers, and employees to login using a unique username and a password.

**No: 2**

**Statement:** The system shall list all animals based on the animal's breed and species.

**No: 3**

**Statement:** The system shall store and track information about animal's properties, which includes their name, date of birth, height, weight, vaccines, description, aggression, species, breeds, gender, color, date of adoption, the date of arrival at the shelter, tricks known, if the animal has been service trained, and if the animal has been adopted.

**No: 4**

**Statement:** The system shall allow users to search for animals based on the animal's [properties](#).

**No: 5**

**Statement:** The system shall allow for employees to add, remove, and edit animals under the management of the shelter.

**No: 6**

**Statement:** The system shall allow for users to submit requests to adopt an animal, which will include the customer's personal and contact information, history with pet ownership, and an agreement that they will take good care of the pet that they adopt.

**No: 7**

**Statement:** The system shall allow for employees to approve or reject submitted adoption requests for animals.

**No: 8**

**Statement:** The system shall allow employees to create and update events, which are activities that customers and animals can participate in. Details about events include the name of the event, the date that the event takes place, an optional description of the event, and what types of users can see this event (customers, volunteers, or employees).

**No: 9**

**Statement:** The system shall allow customers and employees to view events once an employee has published one.

**No: 10**

**Statement:** The system shall allow customers to send questions using text to the shelter. Questions will also store information about the user who asked the question (user ID) and whether the question has been answered by an employee yet.

**No: 11**

**Statement:** The system shall allow employees to answer questions that are submitted to the shelter by providing their text reply to the desired question. The ID of the employee who answered the question will be stored with the question and the question will be marked as answered.

**No: 12**

**Statement:** The system shall allow customers to register as volunteers.

**No: 13**

**Statement:** The system shall generate logs based on employee and volunteer actions. Logs will be generated when a volunteer or employee modifies (creates, updates, or deletes) an animal, another user, or an event. Logs will also be generated if a volunteer or employee approves or rejects an adoption request.

Logs will include the user who did the modification, the date and time of the action, a description of what the user did, and the event, user, or animal that was affected by this change.

**No:** 14

**Statement:** The system shall allow employees and volunteers to log hours worked at the shelter.

**No:** 15

**Statement:** The system shall allow employees to view event logs.

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