**Pets ‘R’ Us Veterinary Clinic**

**Project Requirements**

**Revision History**

|  |  |  |
| --- | --- | --- |
| **Version Number** | **Revision Date** | **Author** |
| 1.0 | January 20, 2018 | Sharon McDonald |
| 1.1 | February 4, 2019 | Coralee Kaban |
|  |  |  |

# Overview

The Pets ‘R’ Us Veterinary Clinic project involves maintaining a list of all owners and pets who visit the clinic. This system will also maintain a schedule of appointments for pets and veterinarians. The pet owners can make appointments online and employees of the veterinarian clinic can make appointments via an application.

# Project Requirements

## Owners

With respect to owners the system shall:

1. Store first name, last name, address, phone number, email address and list of pets.
2. Allow owner’s address to contain up to 80 characters.
3. Store the owner’s phone number as a 10 digit number.
4. Display the owner’s phone number on the GUI in the format (111) 111-1111.
5. Allow the first name to contain up to 30 characters.
6. Allow the last name to contain up to 30 characters.
7. Allow the email address to contain up to 50 alphanumeric characters.
8. Allow owners to be added.
9. Allow owners to be deleted.
10. Allow owners to be edited.
11. Allow veterinarians and employees to search for specified owners including associated pets.

## Pets

With respect to pets the system shall:

1. Store name, species, breed, color, birthdate, age, gender, weight, notes and veterinarian reference.
2. Allow the name to contain up to 30 alphanumeric characters.
3. Allow species to contain up to 30 alphanumeric characters.
4. Allow breed to contain up to 30 alphanumeric characters.
5. Allow color to contain up to 20 alphanumeric characters.
6. Store birthdate as a date value.
7. Display birthdate in format dd/mm/yy where dd represents the day of the month, mm represents the month as a numeric value from 1 to 12, and yy represents the last two digits of the year.
8. Store age as a numeric value.
9. Allow gender to be represented as male or female.
10. Store weight in pounds as a numeric value to one decimal place.
11. Allow notes to contain up to 250 alphanumeric characters.
12. Allow up to 10,000 pets to be stored in the system.
13. Allow pets to be added.
14. Allow pets to be deleted.
15. Allow pets to be edited.

## Veterinarians

With respect to veterinarians the system shall:

1. Store the name and email address.
2. Allow the name to contain up to 50 alphanumeric characters.
3. Allow the email address to contain up to 50 alphanumeric characters.
4. Allow a veterinarian to search for owners.
5. Allow a veterinarian to add and remove owners from the system.
6. Allow a veterinarian to search for scheduled appointment times for owners.
7. Require a veterinarian to login to the system before access to any functionality is granted.
8. Track veterinarian actions on the system.

## Employees

With respect to employees the system shall:

1. Store the name.
2. Allow the name to contain up to 50 alphanumeric characters.
3. Allow an employee to search for owners.
4. Allow an employee to add and remove owners from the system.
5. Allow an employee to search for scheduled appointment times for owners.
6. Require an employee to login to the system before access to any functionality is granted.
7. Track employee actions on the system.

## Scheduling

With respect to scheduling the system shall:

1. Maintain a schedule of appointments for each veterinarian up to a year in advance.
2. Allow veterinarians and employees to add and delete appointments from the schedule via an application interface.
3. Allow owners to add appointments via a web based interface.
4. Allow owners to view open appointment times via the web based interface.
5. Ensure owners are prevented from viewing any information about other owners.
6. Send a veterinarian an email when an appointment is book for that veterinarian.
7. Include in the appointment confirmation email to the veterinarian the date and time of the appointment, pet name, pet species, pet breed and owner.
8. Allow owners to search for all available appointments on a specified day.
9. Allow veterinarians and employees to search for all appointments on a specified day including all the details about the appointments.
10. Allow veterinarians and employees to display appointments for a day or week at a time.
11. Allow veterinarians and employees to easily select day or week from a monthly calendar of appointments.
12. Allow veterinarians and employees to scroll easily through the 12 months of future appointments.
13. Allow the owners to access to web based interface from cell phones and PDAs.

## System Requirements

The system shall:

1. Use MS Access to store information.
2. Use Java to develop required software.
3. Use a graphical based interface.
4. Support Microsoft Edge 41.16299.15.0, Firefox 58.0, and Google Chrome 64.0.3282.119 for the web based interface.