Defining classes Lab: part 1 and part 2

The system that Christy is looking for, must have the capability of categorizing her data by the following category classes:

Product Type

Pet Gender

Species

User Story

Eventually, I would like to retrieve total amounts of a specific type of product that I’ve purchased. Ideally, I would use this to be able to compare the pricing of purchases of product types year by year. For my purposes, a product type is shampoo, and another is conditioner.

Acceptance Criteria:

1. Must be able to query product types to retrieve a list of product types

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| --- | --- | --- | --- |
| Use Case Name | Create a product type | | |
| Triggering Event | A new type of product on the market | | |
| Brief Description | Allows the Owner to create a product type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Product type is added and available to query | | |
| Flow of activities | Actor | | System |
|  |  | Requests to add a new product type | Displays a list of product types and prompts for product type and product type description. |
|  |  | Enters product type and description | Verifies that product type and description have been entered.  Prompts for confirmation |
|  |  | Confirms entry | Saves the product type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the product type | | |

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| --- | --- | --- | --- |
| Use Case Name | Change a Product Type description | | |
| Triggering Event | Request to change a product type description | | |
| Brief Description | Allows the Owner to change a product type’s description | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Product type description is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query a product type | Displays a list of product types and prompts for product type. |
|  | 2. | Selects a product type | Retrieves the product type description and prompts for updates |
|  | 3. | Updates description and requests to save | Verifies that description was entered.  Saves the data |
| Exception Conditions | * Owner chooses to cancel updating the product type description | | |

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| --- | --- | --- | --- |
| Use Case Name | Delete a Product type description | | |
| Triggering Event | Request to delete a product type description | | |
| Brief Description | Allows the Owner to delete  a product type description | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Product type description is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete a product type description | Displays a list of product types and prompts to select product type. |
|  | 2. | Selects a product type | Retrieves the product type description and confirms deletion |
|  | 3. | Confirms deletion | Deletes the product type |
| Exception Conditions | * Owner chooses to cancel deleting the product type description | | |

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| --- | --- | --- | --- |
| Use Case Name | Query all product types and their descriptions | | |
| Triggering Event | Request for product types | | |
| Brief Description | Allows the Owner to retrieve all product types and their descriptions. | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | All product types and their descriptions are retrieved. | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query all product type | Displays a list of product types  Prompts to cancel |
|  | 2. | Chooses to cancel | returns to the main menu |
| Exception Conditions | * Owner chooses to cancel retrieving the product type | | |

User Story

I have added surcharges for my services based on the gender of the pet. For example, cleaning the sanitary areas of pets differ between male and females, or even between female and spayed females. Male pets can be more aggressive than neutered males or females. For that reason, I would like to classify pets by gender.

Most of my client’s pets fall into the genders:

Female

Female – spayed

Male

Male – neutered

I’m thinking of expanding into large animals, so for horses, I would have to add Gelding and Rig.

For that reason, Pet Gender has to have some flexibility!

Acceptance Criteria:

1. Must be able to query pet genders to retrieve a list of pet genders

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| Use Case Name | Create a pet gender | | |
| Triggering Event | A new type pet gender | | |
| Brief Description | Allows the Owner to create a pet gender | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Pet gender is added and available to query | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to add a new pet gender | Displays a list of pet gender and prompts for pet gender and pet gender description. |
|  |  | Enters pet gender and description | Verifies that pet gender and description have been entered.  Prompts for confirmation |
|  |  | Confirms entry | Saves the pet gender and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the pet gender | | |

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| --- | --- | --- | --- |
| Use Case Name | Change a Pet Gender | | |
| Triggering Event | Request to change a pet gender | | |
| Brief Description | Allows the Owner to change a pet gender | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Pet gender is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query pet genders | Displays a list of pet genders and prompts for pet gender. |
|  | 2. | Selects a pet gender | Retrieves the pet gender and prompts for updates |
|  | 3. | Updates pet gender and requests to save | Saves the data |
| Exception Conditions | * Owner chooses to cancel updating the pet gender | | |

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| --- | --- | --- | --- |
| Use Case Name | Delete a pet gender | | |
| Triggering Event | Request to delete a pet gender | | |
| Brief Description | Allows the Owner to delete  a pet gender | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Pet gender is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete a pet gender | Displays a list of pet gender and prompts to select pet gender. |
|  | 2. | Selects a pet gender | Retrieves the pet gender and confirms deletion |
|  | 3. | Confirms deletion | Deletes the pet gender |
| Exception Conditions | * Owner chooses to cancel deleting the pet gender | | |

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| --- | --- | --- | --- |
| Use Case Name | Query all pet genders and their descriptions | | |
| Triggering Event | Request for pet genders | | |
| Brief Description | Allows the Owner to retrieve all pet genders and their descriptions. | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | All pet genders and their descriptions are retrieved. | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query all pet genders | Displays a list of pet genders  Prompts to cancel |
|  | 2. | Chooses to cancel | returns to the main menu |
| Exception Conditions | * Owner chooses to cancel query pet genders | | |

User Story

I charge for my services based on species and breed. For example, I groom both cats and dogs. To bath and brush a cat is more work than bathing and brushing a small dog. Cats won’t sit on command! I would like to categorize by clients pets by species.

Acceptance Criteria:

1. Must be able to query breeds by species.

Use Case Descriptions

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| --- | --- | --- | --- |
| Use Case Name | Create a species | | |
| Triggering Event | A new species. | | |
| Brief Description | Allows the Owner to record species information | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Species added and available for query | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to add a new species | Display a list of species and prompts for species and description |
|  |  | Enters species and description | Verifies that species and description have been entered  Prompts for confirmation |
|  |  | Chooses to confirm | Saves data |
| Exception Conditions | * Owner chooses to abort adding the species | | |

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| --- | --- | --- | --- |
| Use Case Name | Change a Species | | |
| Triggering Event | Request to change a species | | |
| Brief Description | Allows the Owner to change a species | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | species is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query species | Displays a list of species and prompts for species. |
|  | 2. | Selects a species | Retrieves the species and prompts for updates |
|  | 3. | Updates species and requests to save | Saves the data |
| Exception Conditions | * Owner chooses to cancel updating the species | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete a species | | |
| Triggering Event | Request to delete a species | | |
| Brief Description | Allows the Owner to delete  a species | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | species is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete a species | Displays a list of species and prompts to select species. |
|  | 2. | Selects a species | Retrieves the species and confirms deletion |
|  | 3. | Confirms deletion | Deletes the species |
| Exception Conditions | * Owner chooses to cancel deleting the species | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Query all species | | |
| Triggering Event | Request for species and breed information | | |
| Brief Description | Allows the Owner to retrieve all species information | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | All pet species and breeds are retrieved | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query all species | Displays a list of species |
|  | 2. | Chooses to cancel | returns to the main menu |
| Exception Conditions | * Owner chooses to cancel retrieve species/ | | |