**Use Case 1: Search and Filter Animals**

**Use Case Name:** Search and Filter Animals  
**ID:** UC\_001  
**Description:** Allow users to search, sort, and filter animals by attributes such as species, breed, age, size, and health status.  
**Actors:** User (Adopter)  
**Preconditions:**

* The system is operational.
* The database contains animal profiles with detailed attributes.

**Basic Workflow (Primary Scenario):**

1. The user accesses the system's search page.
2. The system displays search and filter options (e.g., species, breed, age).
3. The user selects desired filters and clicks the search button.
4. The system retrieves matching animal profiles from the database.
5. The system displays the search results in a gallery view with details (e.g., name, age, breed, temperament, photo, and location).

**Use Case 2: View Animal Profile**

**Use Case Name:** View Animal Profile  
**ID:** UC\_002  
**Description:** Allow users to view detailed profiles of animals.  
**Actors:** User (Adopter)  
**Preconditions:**

* An animal profile exists in the database.
* The user has selected an animal from the search results.

**Basic Workflow (Primary Scenario):**

1. The user clicks on an animal's profile from the search results.
2. The system retrieves the detailed profile of the selected animal.
3. The system displays the animal's profile, including photos, description, health history, and adoption status.

**Use Case 3: Apply for Adoption**

**Use Case Name:** Apply for Adoption  
**ID:** UC\_003  
**Description:** Enable users to apply for adopting or fostering an animal through an online form.  
**Actors:** User (Adopter)  
**Preconditions:**

* The user has selected an animal profile.
* The user is logged into their account.

**Basic Workflow (Primary Scenario):**

1. The user navigates to the selected animal’s profile.
2. The user clicks the "Apply for Adoption" button.
3. The system displays an online application form.
4. The user fills out the required details, including personal information and reasons for adoption.
5. The user submits the form.
6. The system saves the application and sends a confirmation email to the user.

**Use Case 4: Manage Pet Profiles**

**Use Case Name:** Manage Pet Profiles  
**ID:** UC\_004  
**Description:** Enable shelter staff to add, update, or delete animal profiles.  
**Actors:** Shelter Staff  
**Preconditions:**

* The staff is logged in with appropriate permissions.

**Basic Workflow (Primary Scenario):**

1. The staff accesses the pet management page.
2. The system displays options to add, update, or delete profiles.
3. The staff selects an option:
   * **Add Profile:**  
     a. The staff enters details (species, breed, age, health history, adoption status) and uploads photos.  
     b. The system saves the new profile.
   * **Update Profile:**  
     a. The staff selects an animal profile and edits details.  
     b. The system updates the profile.
   * **Delete Profile:**  
     a. The staff selects an animal profile to delete.  
     b. The system removes the profile from the database.

**Use Case 5: Track Health Events**

**Use Case Name:** Track Health Events  
**ID:** UC\_005  
**Description:** Allow the system to track and log health events such as vaccinations, medications, and vet appointments.  
**Actors:** Shelter Staff, Veterinarian  
**Preconditions:**

* The animal profile exists in the system.
* The user is logged in with appropriate permissions.

**Basic Workflow (Primary Scenario):**

1. The user navigates to an animal's health tracking page.
2. The system displays a list of recorded health events.
3. The user adds a new event by entering details such as event type, date, and notes.
4. The system saves the new event in the database and updates the animal's health history.

**Use Case 6: Generate Reports**

**Use Case Name:** Generate Reports  
**ID:** UC\_006  
**Description:** Provide shelter staff with reports such as monthly adoptions and intake numbers.  
**Actors:** Shelter Manager  
**Preconditions:**

* The system contains sufficient data for generating reports.
* The manager is logged in with appropriate permissions.

**Basic Workflow (Primary Scenario):**

1. The manager accesses the reporting module.
2. The system displays available report types (e.g., monthly adoptions, intake numbers).
3. The manager selects a report type and specifies parameters (e.g., date range).
4. The system retrieves relevant data from the database.
5. The system generates and displays the report.