

Pet Search and Filter

- **Input:** User search criteria (breed, species, size, age, location)
- **Activation:** User clicks on search or filter buttons
- **Action:** System queries database for pets matching selected criteria
- **Output:** Filtered list of pets meeting the specified criteria

Pet Favorites/Saved Pets

- **Input:** User selection of a pet to save
- **Activation:** User clicks "Save" or heart icon on a pet profile
- **Action:** System stores the selected pet in user's favorites list
- **Output:** Confirmation message and pet added to user's saved list

Featured Pets Display

- **Input:** System-identified pets (those waiting longest or needing urgent adoption)
- **Activation:** User loads the homepage
- **Action:** System retrieves and prioritizes featured pets from database
- **Output:** Carousel or highlighted section showing featured pets on homepage

Location-Based Pet Search

- **Input:** User's location (entered manually or detected) and desired search radius
- **Activation:** User enables location search and sets distance preference
- **Action:** System calculates distances and filters available pets
- **Output:** List of pets sorted by proximity to user's location

Online Adoption Application

- **Input:** User's personal information, living situation, pet ownership history
- **Activation:** User clicks "Apply for Adoption" button on pet profile
- **Action:** System validates and stores application information
- **Output:** Confirmation message, application ID, and next steps information

Adoption Application Processing (for shelter staff)

- **Input:** Staff review notes and application status update
- **Activation:** Staff selects application to review
- **Action:** System updates application status and notifies applicant

- **Output:** Updated application status and notification to applicant

Application Updates

- **Input:** Admin publishes an update.
- **Activation:** Admin submits the update.
- **Action:** System validates and publishes updates, and notifies users of the new updates.
- **Output:** In-app notification of updates, and option to view details of the updates.

Meet-and-Greet Appointment Scheduling

- **Input:** User's preferred dates/times for appointment
- **Activation:** User selects "Schedule Meet-and-Greet" option
- **Action:** System checks availability and reserves time slot
- **Output:** Confirmation of appointment with details and preparation instructions

Shelter Contact System

- **Input:** User's message and contact information
- **Activation:** User clicks "Contact Shelter" button
- **Action:** System routes message to appropriate shelter staff
- **Output:** Confirmation message and estimated response time

User Registration and Account Management

- **Input:** User's email, password, and optional profile information
- **Activation:** User selects "Create Account" or "Sign In"
- **Action:** System validates credentials and manages user session
- **Output:** Authenticated user session and access to account features

Pet Profiles (user)

- **Input:** User views pet profiles.
- **Activation:** User selects a pet profile.
- **Action:** System retrieves pet profiles from the database and displays profile details.
- **Output:** Detailed pet profiles with images, descriptions, and adoption status, and option to share profiles.

Pet Profile Management (for shelter staff)

- **Input:** Pet details, photos, health information, behavioral traits
- **Activation:** Staff selects "Add New Pet" or "Edit Pet Profile"
- **Action:** System stores or updates pet information in database
- **Output:** Published or updated pet profile visible to potential adopters

Preference-Based Notifications

- **Input:** User's pet preferences (saved during account creation or later)
- **Activation:** New pet matching preferences is added to system
- **Action:** System compares new pets to user preferences
- **Output:** Email or push notification alerting user to new matching pets

Appointment Reminders

- **Input:** Upcoming appointment data from system
- **Activation:** Automated trigger 24 hours before scheduled appointment
- **Action:** System generates and sends reminder message
- **Output:** Email or text reminder with appointment details

Helpful Tips (e.g., How to Introduce Kids to Pets)

- **Input:** User selects a tip category.
- **Activation:** User request for tips.
- **Action:** System retrieves relevant tips from the database and displays tips to the user.
- **Output:** List of helpful tips with detailed information, and option to save or share tips.

Share Options

- **Input:** User clicks the share button.
- **Activation:** User interaction with the share button.
- **Action:** System generates shareable link or content and provides sharing options (e.g., social media, email).
- **Output:** Shareable link or content ready for user, and confirmation of successful sharing.