## **Features**

**User Registration and Login**

* 1. **Input**: User provides email, password, and optional personal details.
  2. **Activation**: User submits registration form or logs in.
  3. **Action**: System verifies credentials and grants access.
  4. **Output**: User gains access to the pet browsing and application system.

**Pet Browsing with Filters**

* 1. **Input**: User selects filters (e.g., species, size, age).
  2. **Activation**: User applies filters and views pet listings.
  3. **Action**: System retrieves and displays matching pets.
  4. **Output**: User sees a list of available pets based on filters.

**Adoption Application Submission**

* 1. **Input**: User fills out an adoption questionnaire.
  2. **Activation**: User submits the application.
  3. **Action**: System stores the application and notifies staff.
  4. **Output**: User receives confirmation that the application is under review.

**Staff Dashboard for Managing Applications**

* 1. **Input**: Staff logs in and selects a pending application.
  2. **Activation**: Staff reviews application details.
  3. **Action**: Staff approves or rejects the application.
  4. **Output**: System updates applicant status and notifies the user.

**Adopted Pet Management**

* 1. **Input**: Staff marks a pet as adopted.
  2. **Activation**: Staff clicks the "Mark as Adopted" button.
  3. **Action**: System updates the pet's status.
  4. **Output**: Pet is removed from the available pets list.

**Secure Input Validation**

* 1. **Input**: User enters data (e.g., login, application details).
  2. **Activation**: User submits data.
  3. **Action**: System validates input for security risks.
  4. **Output**: Data is accepted or rejected with an error message.