

## **Project Scope: Pet Adoption and Pet Conservation Platform**

The project aims to develop a web-based platform facilitating pet adoption and providing information on pet conservation articles. The scope encompasses the creation of a user-friendly environment where users can view and adopt cats, dogs, and rabbits. Additionally, users will have access to articles related to pet conservation.

### **2. Purpose of the Project:**

- **Pet Adoption Section:**
  - **Purpose:** Connect potential pet adopters with available cats, dogs, and rabbits.
  - **Expected Outcomes:**
    - Users can easily find information on pets available for adoption.
    - Streamlined communication for adoption inquiries.
- **Pet Conservation Articles Section:**
  - **Purpose:** Raise awareness and share information on pet conservation.
  - **Expected Outcomes:**
    - Users can access informative articles on pet conservation.
    - Contributors can share articles related to pet welfare.
- **Contact Form:**
  - **Purpose:** Enable users to contact the organization for inquiries and feedback.
  - **Expected Outcomes:**
    - Improved user engagement through direct communication.
    - Efficient handling of user queries.

Key Features:

1. **Pet Adoption Section:**
  - **Listings:** Display available cats, dogs, and rabbits for adoption.
  - **Details:** Provide detailed information about each pet, including name, picture, description, breed, and category.
  - **Contact Form:** Allow users to express interest through a contact form.
  - **Authentication:** Implement Spring Security for user authentication.
2. **Pet Conservation Articles:**
  - **Listings:** Display articles related to pet conservation.

- **Details:** Provide in-depth information about each article, including name, description, and picture.
  - **CRUD Operations:** Enable basic Create, Read, Update, and Delete operations for articles.
3. **User Interaction:**
- **Contact Form:** Users can contact the platform by submitting their names, phone numbers, and messages.
  - **Email Notification:** Upon form submission, an email notification will be sent to the platform for follow-up.
4. **Validation and Security:**
- **Form Validation:** Utilize JavaScript for client-side validation to enhance user experience.
  - **Spring Security:** Implement overall application security using Spring Security features.

### **Functional Requirements:**

1. **User Management:**
- The system shall allow users to register with a unique email address and phone number.
  - Users shall log in with valid credentials.
  - Admins shall have the capability to manage user accounts.
2. **Pet Adoption Section:**
- Users shall view a categorized list of available pets (cats, dogs, rabbits).
  - Users shall click on a pet to view detailed information.
  - Admins shall perform CRUD operations on pet entries (Add, Edit, Delete).
  - Users shall express interest in adopting a pet via a contact form.
3. **Pet Conservation Articles Section:**
- Users shall view a list of articles.
  - Users shall click on an article to view its content.
  - Contributors shall create, edit, and delete articles.
  - Admins shall manage articles (CRUD operations).
4. **Contact Form:**
- Users shall use a contact form to send general inquiries and feedback.

- Users expressing interest in adopting a pet shall use the contact form.

#### 5. **Security:**

- The system shall enforce authentication and authorization using Spring Security.
- Different user roles (admin, user) shall have specific permissions.

#### **Expected Outcomes:**

A functional web platform accessible to users for pet adoption and information on pet conservation.

Basic CRUD operations for pets and articles.

User-friendly interfaces for viewing and interacting with pet listings and conservation articles.

Secure user authentication using Spring Security.

Contact form functionality with email notifications.