

Front-End UI/UX Mini Project

Pet Adoption Website- “*HAPPY TAILS ANIMAL SHELTER*”

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ABSTRACT

Project Overview:

The Happy Tails Animal Shelter website is a user-friendly platform designed to promote pet adoptions by showcasing available animals. It provides essential information about adoptable pets, the adoption process, success stories, and volunteer opportunities, aiming to connect animals with loving homes.

Key Goal:

The primary goal is to increase pet adoptions by presenting clear, visually appealing pet profiles and enabling users to filter animals by type (e.g., dogs or cats) to streamline the browsing experience.

Core Technologies:

Built with HTML for structure and CSS for styling, the website uses lazy loading for images and a CSS-based radio-button filter system for pet browsing. A volunteer form is included, though submission functionality is static (`onsubmit="return false"`).

Basic interactivity:

Users can browse pet profiles, view detailed pet pages (e.g., Buddy, Luna, Max, Mittens), navigate to adoption steps, and explore success stories. The radio-button filter allows users to view all pets, dogs only, or cats only using CSS selectors. The volunteer form collects input but does not process submissions.

Final Outcomes and Usefulness:

The website delivers a responsive, visually appealing interface with a pet grid, detailed pet profiles, a clear adoption process, success stories, and a volunteer form. It effectively highlights adoptable pets and shelter activities, with intuitive navigation across pages.

The platform supports animal shelters by engaging potential adopters, streamlining the adoption process, showcasing success stories, and encouraging volunteer participation, ultimately increasing adoption rates and community support.

OBJECTIVES

1. **Facilitate Pet Adoptions:** Showcase adoptable pets with detailed profiles, including images, descriptions, and traits, to attract and connect potential adopters with animals like Buddy, Luna, Max, and Mittens.
2. **Clarify Adoption Process:** Provide a clear, step-by-step adoption process page to guide users through browsing, applying, and finalizing adoptions, ensuring an efficient experience.
3. **Enhance User Navigation:** Create an intuitive, responsive interface with consistent navigation across all pages (Available Pets, Adoption Process, Success Stories, Volunteer) for seamless access on all devices.
4. **Promote Community Engagement:** Encourage volunteer participation through a static form and highlight adoption success stories to inspire users and demonstrate the shelter's impact.
5. **Optimize Performance and Accessibility:** Utilize lazy-loaded images and lightweight HTML/CSS for fast loading, with semantic markup and high-contrast styling to ensure accessibility.

SCOPE

1. **Core Pages:** Develop and maintain pages for Available Pets, Adoption Process, Success Stories, and Volunteer opportunities, with consistent navigation across all pages.
2. **Pet Profiles:** Create detailed profiles for individual pets (e.g., Buddy, Luna, Max, Mittens) with images, descriptions, meta information (e.g., age, vaccination status), and care notes.
3. **Filtering Functionality:** Implement a CSS-based radio-button filter system to allow users to view all pets, dogs only, or cats only on the Available Pets page.
4. **Volunteer Form:** Include a static form for volunteer applications with fields for name, email, areas of interest, and a message, styled consistently with the site.

5. **Responsive Design:** Ensure the website is fully responsive, providing an optimal viewing experience on desktops, tablets, and mobile devices.
6. **Performance Optimization:** Use lazy loading for images and a lightweight HTML/CSS structure to enhance page load speed and user experience.
7. **Visual Consistency:** Apply a unified CSS stylesheet (style.css) with defined variables for colors, shadows, and radii to maintain a cohesive design across all pages.
8. **Static Content:** Deliver static content for success stories showcasing adopted pets with images and brief descriptions to engage users.

TOOLS AND TECHNOLOGIES USED

TOOL/TECHNOLOGY	PURPOSE
HTML	<p>Structures all pages (Available Pets, Adoption Process, Success Stories, Volunteer, pet profiles: Buddy, Luna, Max, Mittens).</p> <p>Uses semantic elements: header, nav, main, section, article, footer.</p> <p>Includes navigation links, lazy-loaded images (<code>loading="lazy"</code>), static form inputs (<code>input</code>, <code>textarea</code>, <code>button</code>).</p>
CSS	<p>Styles via external stylesheet (style.css) for consistent design.</p> <p>Uses custom properties (<code>--bg</code>, <code>--brand</code>, <code>--radius</code>) for colors and layouts.</p> <p>Implements responsive design with media queries (<code>@media (max-width:860px)</code>) and grid layouts (<code>display:grid</code>, <code>grid-template-columns</code>).</p> <p>Enables pet filtering with CSS sibling selectors (<code>~</code>) for radio buttons (all, dogs, cats).</p> <p>Applies visual effects: box shadows (<code>--shadow</code>), hover transitions (<code>transform</code>,</p>

	<code>filter:brightness)</code> , rounded corners (<code>border-radius</code>). Optimizes images with <code>object-fit:cover</code> , <code>object-position:center</code> .
VS CODE	Code editor
Chrome DevTools	Testing and debugging

HTML Structure Overview

1. Root Element: `<html lang="en">`

- Defines the document language as English.

2. Head Section: `<head>`

- Includes `<meta charset="utf-8">` for character encoding.
- Uses `<meta name="viewport" content="width=device-width, initial-scale=1">` for responsive design.
- Sets page-specific `<title>` (e.g., "Happy Tails • Available Pets").
- Links external stylesheet `<link rel="stylesheet" href="style.css">`.

3. Body Section: `<body>`

- Header:** `<header>`
 - Contains `<h1>` with page title (e.g., "🐾 Happy Tails Animal Shelter" or pet name).
 - Includes `<nav>` with links to Available Pets, Adoption Process, Success Stories, and Volunteer; active link marked with `class="active"`.
- Main Content:** `<main>`

- **Available Pets (index.html):**
 - <h2> for "Meet Our Adoptable Pets".
 - <div class="filters"> with radio inputs (<input type="radio">) and labels for filtering (All, Dogs, Cats).
 - <section class="pet-grid"> with elements, each containing:
 - for pet images.
 - <div class="card-body"> with <h3> for pet name and <div class="tags"> for pet traits.
- **Adoption Process (adoption.html):**
 - <div class="process"> with listing adoption steps.
- **Pet Profiles (buddy.html, luna.html, max.html, mittens.html):**
 - <div class="detail-hero"> with for pet image.
 - <div class="detail-content"> with two <div class="info"> sections:
 - First: <h2> for "About [Pet]", <p> for description, <p class="meta"> for details (e.g., age, status), <div class="tags"> for traits, and for adoption link.
 - Second: <h2> for "Care Notes", <p> for care info, and to return to pets.
- **Success Stories (stories.html):**
 - <section class="stories"> with <article class="story-card"> elements, each containing:
 - for story images.
 - <div class="story-body"> with for pet name and adoption story text.
- **Volunteer (volunteer.html):**

- <form class="form" onsubmit="return false"> with:
 - <label> and <input> for name and email.
 - <fieldset> with <legend> and checkboxes for volunteer roles.
 - <label> and <textarea> for message.
 - <button class="btn submit"> for submission (static).

4. Footer: <footer>

Contains "© 2025 Happy Tails"; index.html includes additional <h4> credits for contributors.

CSS Styling Strategy

1. Global Styling:

- Uses box-sizing: border-box for consistent element sizing.
- Defines custom properties (:root) for reusable values (e.g., --bg: #fff8f4, --brand: #b7e8f2, --radius: 18px) to ensure color and layout consistency.
- Sets default font (system-ui, Segoe UI, Roboto, Arial, sans-serif) and background (--bg) for a clean, modern look.

2. Responsive Design:

- Implements flexible grid layouts (display: grid, grid-template-columns: repeat(auto-fit, minmax(220px, 1fr))) for pet cards and stories to adapt to screen sizes.
- Uses media queries (e.g., @media (max-width: 860px)) to adjust layouts, like stacking .detail-content columns on smaller screens.
- Ensures images scale with max-width: 100% and object-fit: cover for consistent visuals.

3. Component-Based Styling:

- **Header/Nav:** Styles <header> with sticky positioning (position: sticky) and a colored background (--brand). Navigation links use display: flex with rounded buttons (.active for current page).

- **Pet Grid:** Applies .pet-grid with grid layout and .pet-card with hover effects (transform: translateY(-2px), box-shadow) for interactivity.
- **Filters:** Uses CSS radio-button hack (hidden <input>, styled <label>) with sibling selectors (~) to toggle visibility of .dog and .cat classes.
- **Pet Profiles:** Styles .detail-hero and .detail-content with fixed image heights (400px) and grid layout for info sections, ensuring balanced presentation.
- **Success Stories:** Uses .stories grid for card-based layout with .story-card for consistent spacing and shadows.
- **Volunteer Form:** Styles .form with padded inputs, dashed <fieldset> borders, and a prominent submit button (.btn.submit).
- **Buttons/Tags:** Applies .btn and .tag with rounded corners, hover effects (filter: brightness(.98)), and distinct backgrounds (--chip, --brand-2).

4. Visual Consistency:

- Maintains uniform shadows (--shadow), radii (--radius), and color palette across components for cohesive branding.
- Uses subtle hover transitions (transition: transform .15s ease) to enhance interactivity without JavaScript.

5. Performance Optimization:

- Leverages image-rendering: auto and object-fit: cover for high-quality, non-distorted images.
- Relies on lightweight CSS without external frameworks to minimize load times.

6. Accessibility:

- Ensures readable fonts and high-contrast colors (e.g., --ink: #2a2a2a on --bg: #fff8f4).
- Uses semantic HTML with clear label associations in forms for screen reader compatibility.

KEY FEATURES

FEATURES	DESCRIPTION
Pet Profiles	Detailed pages for each pet (e.g., Buddy, Luna, Max, Mittens) with high-quality images, descriptions, meta details (e.g., age, vaccination status), care notes, and adoption links.
Adoption Process Guide	A clear, numbered list outlining the steps to adopt, from browsing pets to taking them home, presented in a concise, user-friendly format.
Success Stories Section	Showcases adoption stories with images and brief narratives (e.g., Charlie, Maya) to highlight positive outcomes and engage visitors.
Volunteer Form	A static form for volunteer applications, collecting name, email, preferred roles (e.g., Dog Walking, Cat Care), and a message, styled for consistency.
Responsive Design	Adapts seamlessly across devices using flexible grid layouts and media queries, ensuring accessibility on desktops, tablets, and mobiles.

Performance Optimization	Implements lazy-loaded images (<code>loading="lazy"</code>) and a lightweight HTML/CSS structure for fast page loading.
Consistent Navigation	Unified navigation bar across all pages (Available Pets, Adoption Process, Success Stories, Volunteer) with active state highlighting.
Visual Consistency	Uses a cohesive color palette, custom CSS properties (e.g., <code>--brand</code> , <code>--radius</code>), and subtle hover effects for a polished, professional look.

CHALLENGES FACED AND SOLUTIONS:

CHALLENGE	SOLUTION
Responsive Design	Used CSS Grid (<code>repeat(auto-fit, minmax(220px, 1fr))</code>) and media queries (<code>@media (max-width: 860px)</code>) to adjust layouts, with <code>object-fit: cover</code> for images.
Visual Consistency	Defined custom properties (<code>--bg</code> , <code>--radius</code>) in <code>:root</code> and used a single <code>style.css</code> for all pages

Image Performance	Applied lazy loading() and fixed image heights with object-fit: cover.
Intuitive Navigation	Implemented sticky with using display: flex and .active class for current page.

OUTCOMES:

User-Friendly Pet Browsing: A responsive pet grid showcasing adoptable animals (Buddy, Luna, Max, Mittens) with images, names, and trait tags, linked to detailed profiles for easy exploration.

Clear Adoption Guidance: A concise, numbered adoption process page that guides users through each step, enhancing understanding and engagement.

Engaging Success Stories: A visually appealing section with adoption stories (Charlie, Maya) that inspire visitors and highlight the shelter's impact.

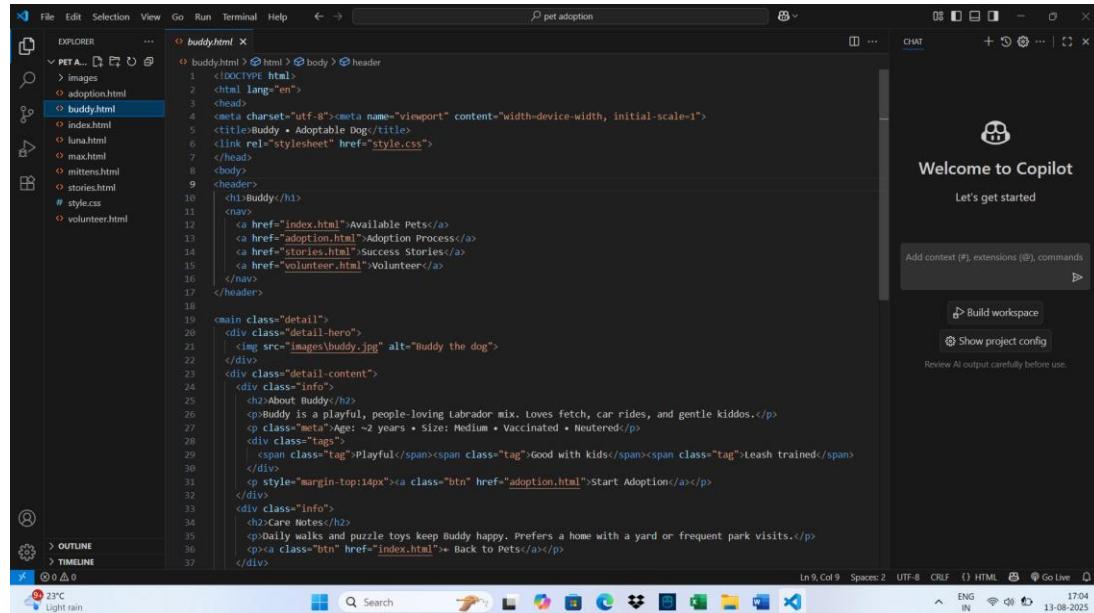
Accessible Volunteer Form: A static, well-styled form for volunteer applications, encouraging community involvement with clear input fields and role options.

FUTURE ENHANCEMENTS:

- Dynamic Pet Filtering and Search:** Add a JavaScript-based system to filter pets by multiple criteria and a search bar for names or traits.
- Interactive Adoption Application Form:** Include a functional form on pet pages for users to apply directly with validation and submission.
- Pet Availability Status and Updates:** Display real-time pet status (e.g., Available, Adopted) with notifications for changes.

4. Enhanced Accessibility Features: Improve ARIA labels, keyboard navigation, and alt text for better accessibility compliance.

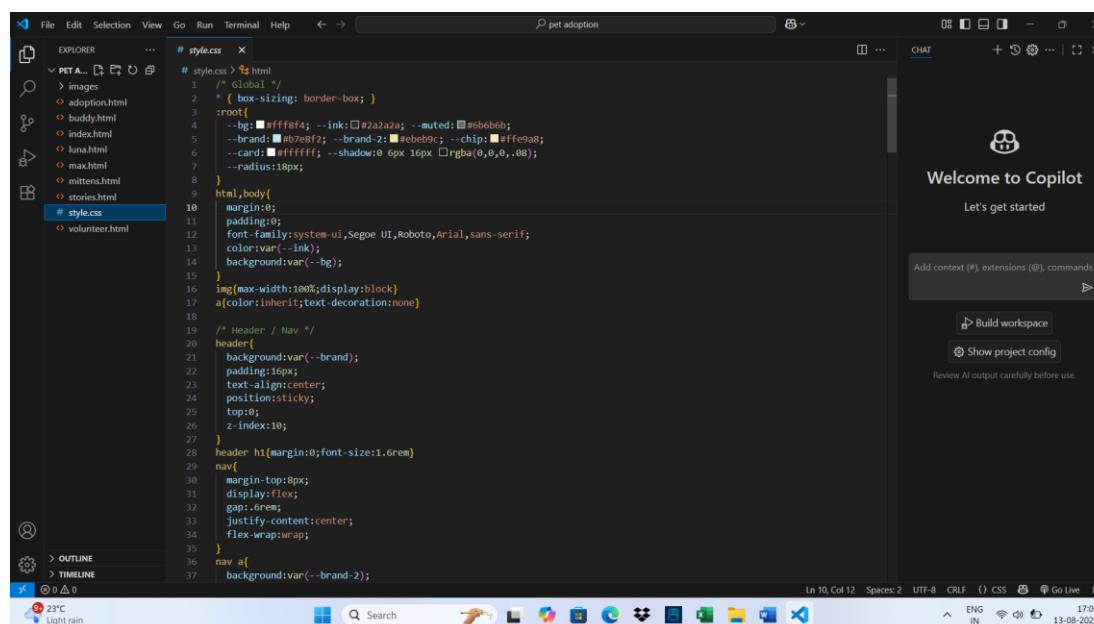
SAMPLE CODE:



A screenshot of a code editor (Visual Studio Code) displaying a snippet of HTML code for a pet adoption website. The file is named `buddy.html`. The code includes a header with a title and links to other pages like index.html, adoption.html, stories.html, and volunteer.html. Below the header is a main section with a hero image of a dog named Buddy, followed by detailed information about him, including his age (2 years), size (Medium), and vaccination status (Neutered). There are also sections for tags and care notes. The code editor interface shows various files in the sidebar and a dark-themed UI.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Buddy + Adoptable Dog</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <header>
      <h1>Buddy</h1>
      <nav>
        <a href="index.html">Available Pets</a>
        <a href="adoption.html">Adoption Process</a>
        <a href="stories.html">Success Stories</a>
        <a href="volunteer.html">Volunteer</a>
      </nav>
    </header>
    <main class="detail">
      <div class="detail-hero">
        
      </div>
      <div class="detail-content">
        <div class="info">
          <h2>About Buddy</h2>
          <p>Buddy is a playful, people-loving Labrador mix. Loves fetch, car rides, and gentle kiddos.</p>
          <p>Age: ~2 years • Size: Medium • Vaccinated • Neutered</p>
          <div class="tags">
            <span>Playful</span><span>Good with kids</span><span>Leash trained</span>
          </div>
          <p style="margin-top:14px"><a class="btn" href="adoption.html">Start Adoption</a></p>
        </div>
        <div class="info">
          <h2>Care Notes</h2>
          <p>Daily walks and puzzle toys keep Buddy happy. Prefers a home with a yard or frequent park visits.</p>
          <p><a class="btn" href="index.html">Back to Pets</a></p>
        </div>
      </div>
    </main>
  </body>
</html>
```

SNIPPET FROM WEBPAGE FOR A PET (BUDDY THE DOG)



A screenshot of a code editor (Visual Studio Code) displaying a snippet of CSS code for a website. The file is named `style.css`. The code defines global styles for the entire document, including a font stack of system-ui, Roboto, Arial, sans-serif, colors for links and brand elements, and background colors. It also styles the header, which includes a main navigation bar with a grid layout for items like 'Home', 'About', 'Services', 'Contact', and 'Blog'. The code editor interface shows various files in the sidebar and a dark-themed UI.

```
/* Global */
* {
  box-sizing: border-box;
}
:root {
  --bg: #fffef6; --ink: #2a2a2a; --muted: #ebebeb;
  --brand: #ab7ef2; --brand-2: #bebe0c; --chip: #ffe9a8;
  --card: #fffffe; --shadow: 0 6px 16px rgba(0,0,0,.08);
  --radius: 18px;
}
html, body {
  margin: 0;
  padding: 0;
  font-family: system-ui, Roboto, Arial, sans-serif;
  color: var(--ink);
  background: var(--bg);
}
img {max-width: 100%; display: block;}
a {color: inherit; text-decoration: none}
/*
  Header / Nav
*/
header {
  background: var(--brand);
  padding: 16px;
  text-align: center;
  position: sticky;
  top: 0;
  z-index: 10;
}
header h1 {margin: 0; font-size: 1.6rem}
nav {
  margin-top: 8px;
  display: flex;
  gap: 6rem;
  justify-content: center;
  flex-wrap: wrap;
}
nav a {
  background: var(--brand-2);
```

SNIPPET FROM CSS STYLESHEET

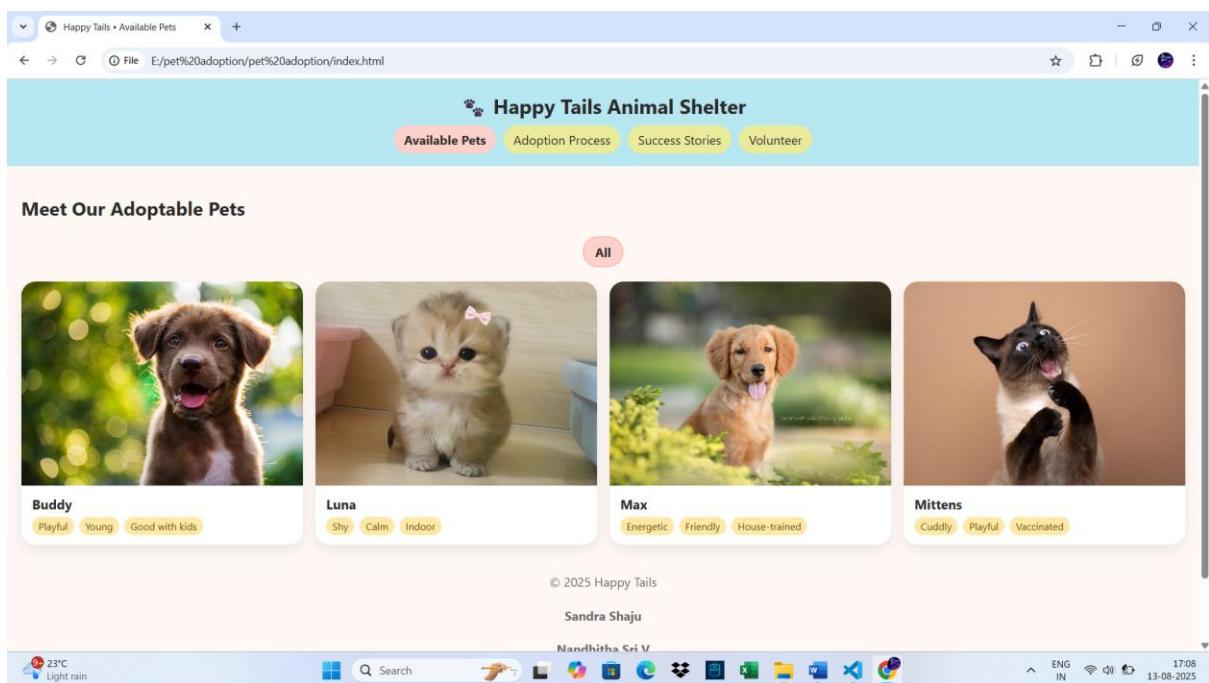
```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Happy Tails • Available Pets</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <header>
      <h1>% Happy Tails Animal Shelter</h1>
      <nav>
        <a class="active" href="index.html">Available Pets</a>
        <a href="adoption.html">Adoption Process</a>
        <a href="stories.html">Success Stories</a>
        <a href="volunteer.html">Volunteer</a>
      </nav>
    </header>
    <main>
      <h2>Meet Our Adoptable Pets</h2>
      <!-- Filters (radio hack) -->
      <div class="filters">
        <input type="radio" id="filter-all" name="pet-filter" checked>
        <label for="filter-all">All</label>
      </div>
      <!-- Grid (must be a sibling of radios for the CSS ~ selector) -->
      <section class="pet-grid">
        <a class="pet-card dog" href="buddy.html">
          
          <div class="card-body">
            <h3>Buddy</h3>
            <div class="tags">
              <span>Playful</span>
              <span>Young</span>
              <span>Good with kids</span>
            </div>
          </div>
        </a>
      </section>
    </main>
  </body>
</html>

```

SNIPPET OF THE MAIN CODE

OUTPUT:



The screenshot shows a web browser window with the title "Buddy • Adoptable Dog". The URL in the address bar is "E:/pet%20adoption/pet%20adoption/buddy.html". The main content area features a large, close-up photograph of a brown puppy named Buddy, looking directly at the camera with its tongue slightly out. Below the photo, there are two sections: "About Buddy" and "Care Notes". The "About Buddy" section includes a brief description, age, size, and vaccination status, along with tags for "Playful", "Good with kids", and "Leash trained". The "Care Notes" section provides information about Buddy's care requirements. At the bottom, there is a "Start Adoption" button.

Luna • Adoptable Cat

E:/pet%20adoption/pet%20adoption/luna.html

Luna

Available Pets Adoption Process Success Stories Volunteer



About Luna

Quiet, gentle, and loves window sunshine. Best as an indoor companion.

Age: ~3 years • Spayed • Litter trained

Calm Indoor

Start Adoption

Care Notes

Enjoys soft blankets and feather toys. Introduce slowly in multi-pet homes.

Back to Pets

Rainy days ahead 23°C

ENG IN 17:09 13-08-2025

Max • Adoptable Dog

Available Pets Adoption Process Success Stories Volunteer

pennywhistlephotography

About Max

High-energy adventurer who loves hikes and squeaky toys. Great for active families.

Age: ~1.5 years • Neutered • Microchipped

Energetic Friendly

Start Adoption

Care Notes

Needs daily exercise and basic obedience refreshers—very food motivated.

Back to Pets

Rainy days ahead 23°C

Search

17:09 13-08-2025

Mittens • Adoptable Cat

Available Pets Adoption Process Success Stories Volunteer

About Mittens

Affectionate lap cat who enjoys playtime then cozy naps.

Age: ~2 years • Vaccinated • Dewormed

Cuddly Playful

Start Adoption

Care Notes

Scratching post fan; appreciates gradual introductions and treat puzzles.

Back to Pets

Rainy days ahead 23°C

Search

17:09 13-08-2025

Happy Tails • Adoption Process

File E:/pet%20adoption/pet%20adoption/adoption.html

Adoption Process

Available Pets Adoption Process Success Stories Volunteer

1. Browse pets and shortlist your favorites.
2. Submit the adoption application.
3. Chat with our coordinator for a quick home fit check.
4. Meet & greet at the shelter.
5. Complete paperwork and adoption fee.
6. Head home with supplies and guidance.

© 2025 Happy Tails

Rainy days ahead 23°C

Search

17:10 13-08-2025

Happy Tails • Success Stories

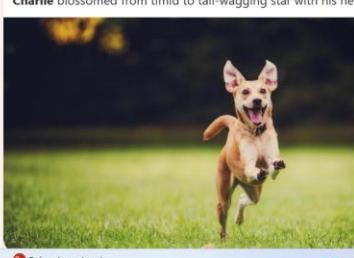
File E:/pet%20adoption/pet%20adoption/stories.html

Success Stories

Available Pets Adoption Process Success Stories Volunteer



Charlie blossomed from timid to tail-wagging star with his new family.

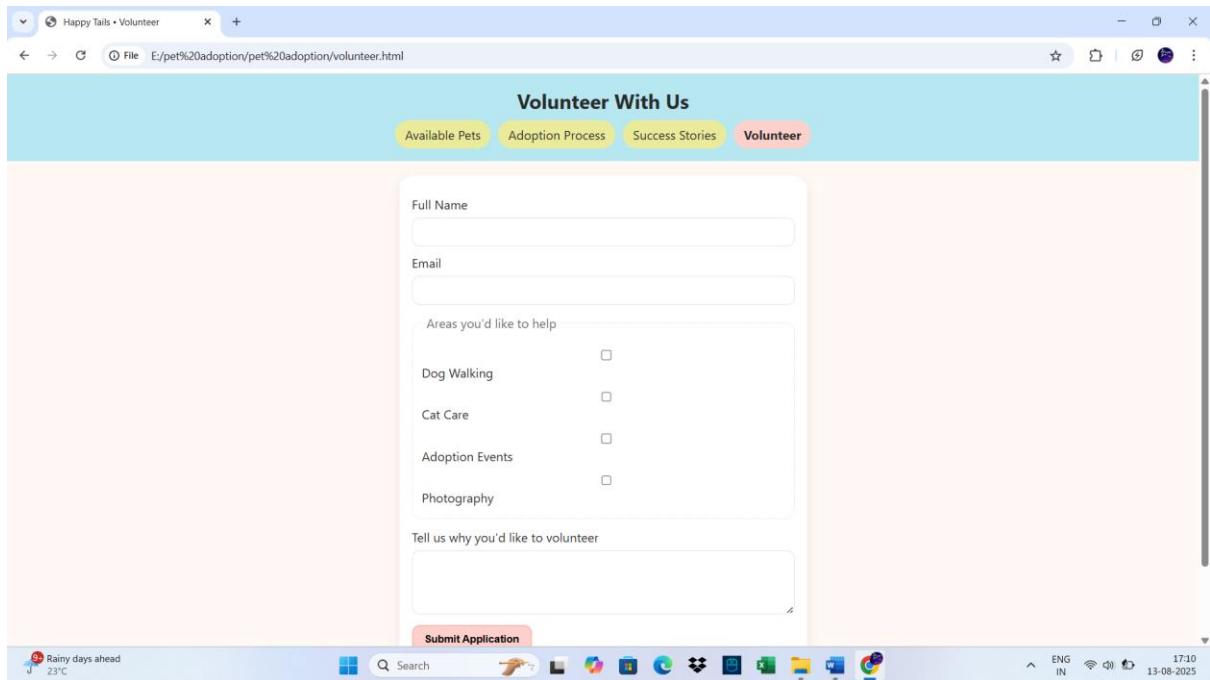


Maya found her perfect nap spot and a best friend for life.

Rainy days ahead 23°C

Search

17:10 13-08-2025



CONCLUSION

The Happy Tails Animal Shelter website is a thoughtfully crafted platform that effectively promotes pet adoption and community involvement. Featuring detailed profiles for adoptable pets (Buddy, Luna, Max, Mittens), a clear adoption process, success stories, and a volunteer form, the site provides a seamless user experience. Its consistent navigation, responsive design with viewport meta tags and CSS styling (max-width, grid layouts, object-fit: cover), and optimized images (`loading="lazy"`) ensure accessibility and visual appeal across devices. The CSS-driven filter system and clean, modern aesthetic enhance usability. Despite minor challenges, such as static form functionality, the project successfully connects users with adoptable pets and shelter initiatives. Future enhancements, like dynamic form submissions or additional pet profiles, could further improve engagement and impact.

REFERENCE:

- 1. W3Schools**
- 2. Google images**
- 3. CSS Basics**
- 4. Udemy**
- 5. Khan Academy**