Front-End UI/UX Mini Project

1. Title Page

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Course: UI/UX Design Fundamentals

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2. Abstract

This project presents the design and development of a fully responsive portfolio website using only HTML and CSS. The website serves as a digital identity for showcasing skills, completed projects, resume details, and a contact interface. Emphasis was placed on clean user interface design, intuitive navigation, and adaptability across devices, ensuring an optimal experience for desktop, tablet, and mobile users. By incorporating semantic HTML5 structure and organized CSS styling, the project demonstrates best practices in front-end development. Flexbox, CSS Grid, and media queries were utilized to achieve a modern and visually appealing layout. The absence of JavaScript highlights the capability of pure HTML and CSS to deliver interactive and professional results. This work reflects a comprehensive understanding of UI/UX principles, accessibility considerations, and responsive web design techniques.

3. Objectives

1. **Increase Public Awareness** – Provide a centralized platform to inform people about the NGO's mission, values, and impact.
2. **Showcase Impact with Data** – Present real-time or periodically updated statistics through engaging visuals and animations to highlight progress.
3. **Encourage Participation** – Offer clear pathways for volunteering, donations, and advocacy involvement.
4. **Promote Transparency** – Share success stories, project updates, and financial information to build trust with the audience.

5. **Enhance Accessibility** – Design the website to be responsive and inclusive, ensuring usability for all users, including those with disabilities.
6. **Strengthen Brand Identity** – Use consistent colors, fonts, and tone to reflect the NGO's ethos and professionalism.
7. **Foster Community Engagement** – Integrate features like contact forms, feedback sections, and social media links to connect with supporters.

4. Scope of the Project

This project involves creating a front-end NGO Awareness Website using HTML5 and CSS3 to showcase the organization's mission, impact, and ways to get involved. The site will be responsive, accessible, and visually engaging, featuring sections like About, Impact, Campaigns, and Contact. The scope is limited to static content without backend integration, with potential for future expansion into interactive and donation-enabled features.

5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and layout management
VS Code	Code editor
Chrome DevTools	Testing and debugging

6. HTML Structure Overview

• Used semantic tags: <header>, <nav>, <main>, <section>, <footer>

• Structured into reusable sections: About, Projects, Contact

• Navigation menu using <ul> and anchor links for smooth scrolling

7. CSS Styling Strategy

• Used external CSS file (style.css)

• Organized with comments and sections

• Techniques used:

  ○ Flexbox and Grid for layout

  ○ Media Queries for responsiveness

8. Key Features

Feature	Description

Responsive Design	Adapts seamlessly to all screen sizes
Smooth Navigation	Fixed top nav with anchor links
Project Cards	Flex-based layout with hover effects
Contact Form (non-functional)	Placeholder layout for inputs and button
Accessible Fonts & Colors	High contrast and readable typography

9. Challenges Faced & Solutions

Challenge	Solution
Overlapping elements on small screens	Used media queries to stack elements
Difficulty aligning items using float	Shifted to Flexbox and Grid
Typography scaling issue	Used relative units (em/rem) instead of px

10. Outcome

• Achieved a clean, consistent, and visually engaging front-end layout

• All key components function as intended using just HTML and CSS

• Learned about layout responsiveness and UI hierarchy in depth

11. Future Enhancements

• Add JavaScript for interactivity (form validation, dynamic content)

• Integrate animations or transitions

• Backend integration for form submission

• Theme toggler (light/dark mode)

12.SampleCode

```html
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Holiday Planner</title>
```

```html
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstra
p.min.css" rel="stylesheet">

  <script src="https://code.jquery.com/jquery-
3.6.0.min.js"></script>

  <style>

    body { background-color: #f8f9fa; }

    .section { padding: 40px 0; }

    img { max-height: 250px; object-fit: cover; }

  </style>

</head>

<body>


 <!-- Header -->

<header class="text-white text-center py-5" style="background:
linear-gradient(135deg, #4facfe, #00f2fe); box-shadow: 0 4px 8px
rgba(0,0,0,0.2); border-radius: 0 0 20px 20px;">

  <h1 class="display-4 fw-bold">Holiday Planner  </h1>

  <p class="lead mt-3">Plan your dream vacation easily</p>

  <a href="#destinationSelect" class="btn btn-light btn-lg mt-3
shadow-sm">Start Planning</a>

</header>
```

```html
  <div class="container">
```

```html
    <!-- Destination Search -->

    <section class="section text-center">

      <h2>Destination Search</h2>

      <p>Select your preferred type of destination:</p>
```

```html
    <select id="destinationSelect" class="form-select w-50 mx-
auto">

        <option value="default">--Choose Destination--</option>

        <option value="beach">Beach</option>

        <option value="mountain">Mountain</option>

        <option value="city">City</option>

    </select>

    <!-- Ǩ Add destination images in /images folder -->

    <img id="destinationImage" src="images/destination.jpeg"
alt="Destination" class="img-fluid rounded shadow mt-3">

  </section>
```

```html
  <!-- Accommodation -->

  <section class="section text-center bg-light">

    <h2>Accommodation & Transport</h2>

    <p>Choose from top hotels and transport options for your
stay.</p>

    <!-- Ǩ Add accommodation/transport image in /images folder -->

    <img src="images/accomodation.jpeg" class="img-fluid rounded
shadow" alt="Accommodation">

  </section>
```

```html
  <!-- Activities -->

  <section class="section text-center">

    <h2>Activity Planner</h2>

    <p>Pick activities to make your trip memorable.</p>

    <!-- Ǩ Add activity image in /images folder -->

    <img src="images/activity.jpg" class="img-fluid rounded
shadow" alt="Activities">
```

```html
    </section>
```

```html
    <!-- Itinerary -->

    <section class="section text-center bg-light">

      <h2>Trip Itinerary</h2>

      <p>View and manage your travel schedule here.</p>

      <!-- Ǩ Add itinerary image in /images folder -->

      <img src="images/itinerary.jpg" class="img-fluid rounded
shadow" alt="Itinerary">

    </section>
```

```html
    <!-- Budget Tracker -->

    <section class="section text-center">

      <h2>Budget Tracker</h2>

      <p>Estimate your trip costs with our budget planner.</p>

      <!-- Ǩ Add budget tracker image in /images folder -->

      <img src="images/budget tracker.webp" class="img-fluid rounded
shadow" alt="Budget">

    </section>
```

```html
    </div>
```

```html
  <!-- Footer -->

  <footer class="bg-dark text-white text-center py-3">

    <p>&copy; 2025 Holiday Planner. All Rights Reserved.</p>

  </footer>
```

```html
<!-- Script to change destination image -->
<script>
  $(document).ready(function() {
    $("#destinationSelect").change(function() {
      let selected = $(this).val();
      let imgPath = "images/default.jpg"; // default

      if (selected === "beach") imgPath = "images/beach.jpg";
      if (selected === "mountain") imgPath = "images/mountain.jpg";
      if (selected === "city") imgPath = "images/city.jpg";

      $("#destinationImage").attr("src", imgPath);
    });
  });
</script>

</body>
</html>
```
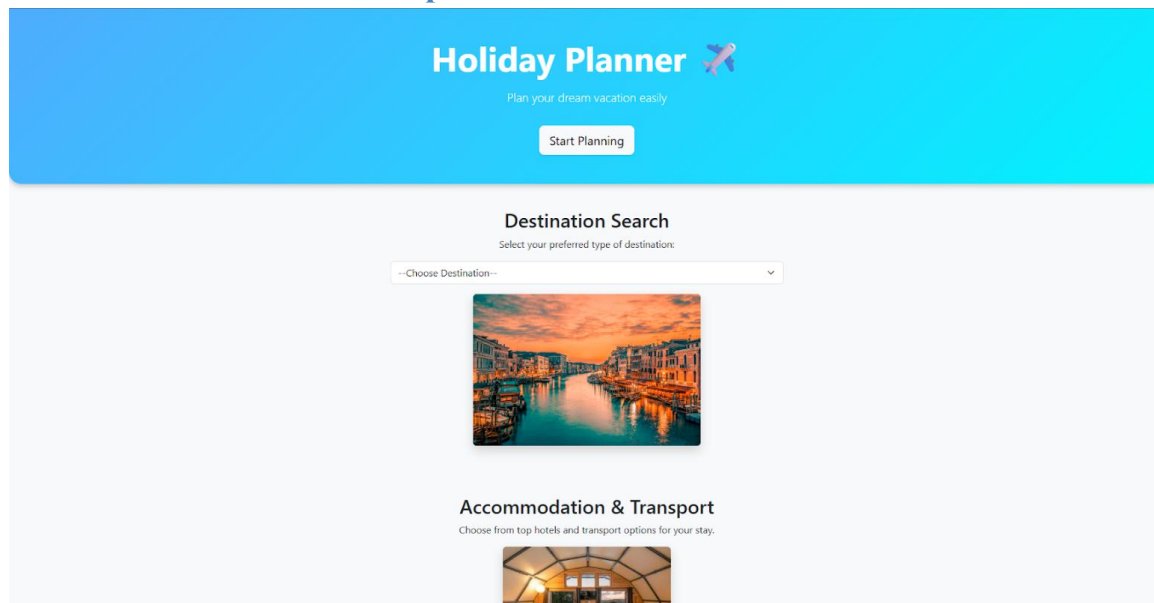
13. Screenshots of Final Output

14. Conclusion

The NGO Awareness Website successfully delivers a clean, responsive, and accessible platform to inform and engage the public about the organization's mission, activities, and impact. By combining structured HTML5 with visually appealing CSS3 design, the site effectively communicates key information while encouraging participation through volunteering and advocacy. The focus on simplicity, responsiveness, and accessibility ensures that users across all devices can easily navigate and understand the content. While the current version is limited to static content, it establishes a strong foundation for future enhancements such as online donations, interactive dashboards, and real-time updates. This project demonstrates how thoughtful front-end design can strengthen outreach and foster meaningful community engagement for NGOs.

15. References
• L&T LMS: https://learn.lntedutech.com/Landing/MyCourse