

Front-End UI/UX Mini

Project

Holiday Planner

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Course: UI/UX Design Fundamentals

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Abstract

This project is a modern, interactive holiday planner web application designed to help users effortlessly explore, plan, and budget vacations. The main goal is to provide an all-in-one platform where users can search destinations by interest, manage itineraries, and keep track of expenses with real-time updates. Core technologies used include HTML5 for structured content, CSS3 for responsive and attractive design, JavaScript (with jQuery) for dynamic interactivity, and Bootstrap for a seamless and modern user experience. The final outcome is a practical and visually appealing tool that simplifies trip planning, empowering users to make informed travel decisions and create memorable journeys efficiently.

Objectives

- Design an intuitive, engaging user interface that allows users to explore diverse travel interests easily and supports dynamic trip planning.
- Develop a fully responsive layout using HTML5 and CSS3, ensuring the site adapts well to different devices from desktops to mobiles.
- Use semantic HTML5 elements such as `<header>`, `<nav>`, `<main>`, `<section>`, and `<footer>` to organize content clearly and enhance SEO and accessibility.
- Apply consistent CSS branding with gradients, shadows, and palette colors to reflect a cohesive and modern visual identity, using techniques like Flexbox and Grid for layout flexibility.
- Implement interactive JavaScript (with jQuery and Bootstrap) components for features like destination searching, itinerary updating, and budget calculations, delivering a smooth user experience.
- Ensure accessibility and readability by maintaining appropriate color contrast, font sizes, and responsive typography for easy use across all platforms and by various user groups.

Scope of the Project

- The project focuses exclusively on the front-end design and user interface aspects of a holiday planner web application.
- It does not include any back-end server-side programming or JavaScript frameworks/libraries beyond basic interactive scripting (such as jQuery and Bootstrap scripts already utilized).
- The website is fully intended for desktop, tablet, and mobile viewports, ensuring a responsive design that adapts seamlessly across devices using HTML5 and CSS3 techniques like media queries and flexible layouts.
- Only open-source tools and pure code are used (HTML, CSS, JavaScript, Bootstrap, jQuery), with no proprietary or paid libraries integrated.
- The main deliverables include structured semantic HTML, styled and responsive layouts, interactive destination searches, itinerary and budget updating done on the client side.
- Boundaries exclude server-side processing, database management, and advanced backend API integrations, focusing purely on client-side user interactions.

Tools and Technology used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and responsive layout
JavaScript	Interactive features and logic
Bootstrap	Responsive UI components

Tool/Technology	Purpose
jQuery	DOM manipulation and event handling
VS Code	Code editing and development
Chrome DevTools	Testing and debugging

HTML Structure Overview

- The site uses semantic HTML5 tags to structure content clearly:
 - `<header>` for the site branding and top navigation bar.
 - `<nav>` containing a navigation menu presented with `` lists and anchor links (``) that enable smooth scrolling to different page sections.
 - `<main>` to hold the primary content of the webpage.
 - Multiple `<section>` elements each representing reusable parts of the site like About, Projects, and Contact.
 - `<footer>` for closing information or credits.
- Navigation menu is implemented as a list (``) with anchor tags pointing to internal sections for smooth scrolling experiences, aligning with accessibility and usability best practices.
- This semantic approach improves structure, SEO, and accessibility while supporting clean, maintainable code organization. Based on your website's index.html file, here is an overview of the HTML structure:
- Your HTML uses semantic tags such as `<header>`, `<nav>`, `<main>`, `<section>`, and `<footer>` to define the layout and improve accessibility and SEO.
- The site content is organized into reusable sections under `<section>` tags, including About, Projects, and Contact, each with their own unique IDs.

- Navigation is implemented using an unordered list `` with anchor links `` that enable smooth scrolling to different page sections within the same document.
- This structure supports a clear, accessible user interface that is easy to maintain and enhances user navigation and experience.

CSS Styling Strategy

- The site uses an external stylesheet `styles.css` linked from the HTML to separate presentation from content.
- The CSS is well-organized with comments dividing sections such as root variables, typography, navbar, cards, buttons, footer, and responsive rules.
- CSS Variables define primary colors (`#218A98`, `#6CB27C`, `#FBC25C`), gradients, shadows, and border radius to maintain consistent branding and allow easy theme changes.
- Flexbox is used for alignment and layout in navigation bars (`.navbar`), project cards, budget tables, and form controls.
- CSS Grid is present for arranging card grids and other multi-column layouts elegantly.
- Media Queries control responsive breakpoints, adjusting padding, margins, font sizes, flex-direction, and grid layouts for mobile, tablet, and desktop views.
- Interactive elements feature hover effects and smooth transitions (e.g., button backgrounds, card shadows) for enhanced UX.
- The design follows a mobile-first approach, with styles for small screens first, then enhanced rules for larger viewports via min-width media queries.
- Consistent use of modern CSS3 properties results in a clean, visually appealing, user-friendly design aligned with your brand.

Key Features

Feature	Description
Responsive Design	Layout adapts seamlessly to all screen sizes using Flexbox, Grid, and media queries for consistency across devices.
Smooth Navigation	Fixed top navigation bar uses anchor links () for smooth, in-page scrolling.
Project Cards	Destinations and projects are displayed using Flexbox-based card layouts with visually engaging hover effects and transitions.
Contact Form (non-functional)	Form structure is present with input fields and a button for user inquiries, styled for clarity but with no backend processing.
Accessible Fonts & Colors	Uses high contrast color variables and readable typography, ensuring legibility and accessibility for all users.

Challenges Faced and Solutions

Challenge	Solution
Overlapping elements on small screens	Used CSS media queries to stack elements vertically and adjust padding/margins for clean mobile layouts.
Difficulty aligning items using float	Shifted layout techniques from old CSS floats to modern Flexbox and CSS Grid, simplifying alignment, spacing, and responsiveness.

Typography scaling issue	Adopted relative units (em/rem) in CSS for font sizes and spacing, delivering consistent scaling and readability across devices
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Outcome

- Achieved a clean, consistent, and visually engaging front-end layout that presents travel planning content clearly and attractively.
- All key user interface components including destination search, itinerary planner, budget tracker, and navigation function as intended using a combination of HTML, CSS, and client-side JavaScript.
- Gained deeper understanding and practical experience in building responsive layouts using Flexbox and Grid, and maintaining UI hierarchy for optimal user experience across devices.
- Improved skills in CSS theming using variables, media queries for responsiveness, and interactive effects like hover transitions, ensuring user engagement and accessibility.

Future Enhancements

- Add JavaScript interactivity: Implement form validation for the contact and budget forms to ensure user input correctness before submission; dynamically update content such as itinerary summaries and expense totals without requiring page reloads.
- Integrate animations and transitions: Enhance user engagement by adding smooth animated effects on buttons, cards, and page transitions to make the UI feel more responsive and polished.
- Backend integration for form submission: Connect contact and booking forms to a backend server or third-party service for storing inquiries and managing bookings, enabling real data handling and communication.
- Theme toggler (light/dark mode): Implement a user toggle to switch between light and dark themes, leveraging CSS variables and JavaScript to improve accessibility and user comfort in varying lighting conditions.

Sample Code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="UTF-8" />
5      <title>Holiday Planner</title>
6      <meta name="viewport" content="width=device-width, initial-scale=1" />
7      <!-- Bootstrap CSS CDN -->
8      <link
9        href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
10       rel="stylesheet"
11     />
12     <link rel="stylesheet" href="css/styles.css" />
13   </head>
14   <body>
15     <nav class="navbar navbar-expand-lg navbar-dark bg-primary mb-3">
16       <div class="container-fluid justify-content-center">
17         <a class="navbar-brand d-flex align-items-center" href="#">
18           
23           <span>HoliPay</span>
24         </a>
25       </div>
26     </nav>
27
28     <!-- Hero Slideshow -->
29     <div
30       id="heroCarousel"
31       class="carousel slide hero-slideshow mb-4"
32       data-bs-ride="carousel"
33       data-bs-interval="4000"
34     >
35       <div class="carousel-indicators">
36         <button
37           type="button"
```



```

38     data-bs-target="#heroCarousel"
39     data-bs-slide-to="0"
40     class="active"
41     aria-current="true"
42     aria-label="Slide 1"
43 ></button>
44 <button
45     type="button"
46     data-bs-target="#heroCarousel"
47     data-bs-slide-to="1"
48     aria-label="Slide 2"
49 ></button>
50 <button
51     type="button"
52     data-bs-target="#heroCarousel"
53     data-bs-slide-to="2"
54     aria-label="Slide 3"
55 ></button>
56 </div>
57 <div class="carousel-inner">
58     <div class="carousel-item active">
59         
64         <div class="carousel-caption d-md-block">
65             <h2 class="display-5 fw-bold">Plan Your Perfect Holiday</h2>
66             <p class="lead">
67                 Discover amazing destinations and create unforgettable memories
68             </p>
69         </div>

```

```

102     <span class="carousel-control-prev-icon" aria-hidden="true"></span>
103     <span class="visually-hidden">Previous</span>
104 </button>
105 <button
106     class="carousel-control-next"
107     type="button"
108     data-bs-target="#heroCarousel"
109     data-bs-slide="next"
110 >
111     <span class="carousel-control-next-icon" aria-hidden="true"></span>
112     <span class="visually-hidden">Next</span>
113 </button>
114 </div>
115
116 <div class="container">
117     <!-- Destination Search -->
118     <div class="card mb-3">
119         <div class="card-header">Destination Search</div>
120         <div class="card-body">
121             <form id="destinationForm">
122                 <div class="mb-3">
123                     <label for="interest" class="form-label">Interest</label>
124                     <select class="form-select" id="interest">
125                         <option value="beach">Beach</option>
126                         <option value="mountains">Mountains</option>
127                         <option value="city">City</option>
128                     </select>
129                 </div>
130                 <button type="submit" class="btn btn-primary">
131                     Search Destinations
132                 </button>
133             </form>
134             <div id="destinationResults" class="mt-3"></div>

```

```

136     <!-- Picture Slides (will be populated dynamically) -->
137     <div id="destinationCarouselWrapper" class="mt-4"></div>
138   </div>
139 </div>
140
141 <!-- Accommodation and Transport & Activity Planner Row -->
142 <div class="row mb-3">
143   <!-- Accommodation and Transport -->
144   <div class="col-lg-6 col-md-12">
145     <div class="card mb-3">
146       <div class="card-header">Accommodation and Transport</div>
147       <div class="card-body">
148         <form id="accommodationTransportForm">
149           <div class="mb-3">
150             <label for="hotel" class="form-label">Hotel</label>
151             <input
152               type="text"
153               class="form-control"
154               id="hotel"
155               placeholder="Hotel Name"
156             />
157           </div>
158           <div class="mb-3">
159             <label for="transport" class="form-label">Transport</label>
160             <select class="form-select" id="transport">
161               <option value="flight">Flight</option>
162               <option value="train">Train</option>
163               <option value="bus">Bus</option>
164             </select>
165           </div>
166           <button type="submit" class="btn btn-primary">

```

```

1  /* Modern Holiday Planner Styles */
2  :root {
3    --primary-color: #218A98;
4    --secondary-color: #6CB27C;
5    --accent-color: #FBC25C;
6    --light-bg: #F7F7F7;
7    --dark-text: #333333;
8    --cta-color: #FBC25C;
9
10    --primary-gradient: linear-gradient(135deg, #218A98 0%, #6CB27C 100%);
11    --secondary-gradient: linear-gradient(135deg, #6CB27C 0%, #FBC25C 100%);
12    --accent-gradient: linear-gradient(135deg, #218A98 0%, #6CB27C 100%);
13    --cta-gradient: linear-gradient(135deg, #FBC25C 0%, #218A98 100%);
14    --card-shadow: 0 10px 30px rgba(33, 138, 152, 0.15);
15    --card-hover-shadow: 0 15px 40px rgba(33, 138, 152, 0.2);
16    --border-radius: 15px;
17    --transition: all 0.3s cubic-bezier(0.4, 0, 0.2, 1);
18  }
19
20  body {
21    background: linear-gradient(135deg, var(--primary-color) 0%, var(--secondary-color) 100%);
22    background-attachment: fixed;
23    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
24    margin: 0;
25    padding: 0;
26    color: var(--dark-text);
27  }
28
29  /* Enhanced Navbar */
30  .navbar {
31    background: rgba(247, 247, 247, 0.95) !important;
32    backdrop-filter: blur(10px);
33    box-shadow: 0 2px 20px rgba(33, 138, 152, 0.15);
34    padding: 0px;
35  }
36
37  .navbar-brand {

```

```

38     font-weight: 700;
39     font-size: 2.5rem;
40     color: var(--primary-color) !important;
41     transition: var(--transition);
42 }
43
44 .navbar-brand:hover {
45     transform: scale(1.05);
46     color: var(--secondary-color) !important;
47 }
48
49 .brand-logo {
50     height: 100px;
51     width: auto;
52     filter: drop-shadow(2px 2px 4px rgba(0, 0, 0, 0.1));
53 }
54
55 /* Hero Slideshow */
56 .hero-slideshow {
57     margin: 0 auto 2rem;
58     max-width: 1200px;
59     border-radius: var(--border-radius);
60     overflow: hidden;
61     box-shadow: var(--card-shadow);
62 }
63
64 .hero-slideshow .carousel-item img {
65     height: 500px;
66     object-fit: cover;
67     filter: brightness(0.8);
68 }
69
70 .hero-slideshow .carousel-caption {
71     background: rgba(0, 0, 0, 0.4);
72     backdrop-filter: blur(5px);
73     border-radius: 10px;

```

```

1 // Demo data for destinations based on interest
2 const destinationData = {
3     beach: ["Maldives", "Goa", "Bali"],
4     mountains: ["Swiss Alps", "Himalayas", "Rocky Mountains"],
5     city: ["New York", "Paris", "Tokyo"]
6 };
7
8 // Picture slides for each interest (uses picsum placeholders; replace with your own images if desired)
9 const destinationImages = {
10     beach: [
11         { src: "https://www.kuoni.co.uk/upload/james/mil.jpg", alt: "Maldives beach", caption: "Maldives" },
12         { src: "https://voiceofadventure.com/wp-content/uploads/2022/06/60d0813807aff-Baga_Beach_In_Goa.jpg", alt: "Goa Beach" },
13         { src: "https://media.cntravellerme.com/photos/64e73087238bdd124237b565/16:9/w_2580,c_limit/GettyImages-11450422" },
14     ],
15     mountains: [
16         { src: "https://wallpaperaccess.com/full/5434876.jpg", alt: "Swiss Alps", caption: "Swiss Alps" },
17         { src: "https://images7.alphacoders.com/454/454350.jpg", alt: "Himalayas", caption: "Himalayas" },
18         { src: "https://i.redd.it/mc4desopszxuy.jpg", alt: "Rocky Mountains", caption: "Rocky Mountains" }
19     ],
20     city: [
21         { src: "https://www.goodfreephotos.com/albums/united-states/new-york/new-york-city/new-york-cityscape-with-light", alt: "New York City" },
22         { src: "https://wallpaperaccess.com/full/1192224.jpg", alt: "Paris City", caption: "Paris" },
23         { src: "https://jw-webmagazine.com/wp-content/uploads/2019/06/jw-5d14997e0fdb82.16770798.jpeg", alt: "Tokyo City" }
24     ]
25 };
26
27 let itinerary = [];
28 let budget = {
29     flight: 0,
30     hotel: 0,
31     activity: 0
32 };
33
34 $(document).ready(function(){
35

```

```

36 // Destination Search
37 $("#destinationForm").submit(function(e){
38   e.preventDefault();
39   const interest = $("#interest").val();
40   const destinations = destinationData[interest] || [];
41
42   // Render text results
43   let html = "<ul class='list-group'>";
44   destinations.forEach(dest => {
45     html += `<li class="list-group-item">${dest}</li>`;
46   });
47   html += "</ul>";
48   $("#destinationResults").html(html);
49
50   // Render slides for selected interest
51   renderDestinationCarousel(interest);
52 });
53
54 // Accommodation and Transport
55 $("#accommodationTransportForm").submit(function(e){
56   e.preventDefault();
57   const hotel = $("#hotel").val();
58   const transport = $("#transport").val();
59   itinerary.push({
60     type: "Accommodation & Transport",
61     details: `Hotel: ${hotel || "N/A"}, Transport: ${transport}`,
62     date: "",
63     time: ""
64   });
65   updateItinerary();
66 });
67
68 // Activity Planner
69 $("#activityForm").submit(function(e){
70   e.preventDefault();


```


```

122 const carouselId = "destinationCarousel";
123 const indicators = images.map((_, idx) => `
124   <button type="button" data-bs-target="#${carouselId}" data-bs-slide-to="${idx}" ${idx === 0 ? 'class="active"'
125   `).join("");
126
127 const slides = images.map((img, idx) => `
128   <div class="carousel-item ${idx === 0 ? "active" : ""}>
129     
130     <div class="carousel-caption d-none d-md-block">
131       <h5 class="mb-0">${img.caption}</h5>
132     </div>
133   </div>
134 `).join("");
135
136 const carouselHtml = `
137   <div id="${carouselId}" class="carousel slide" data-bs-ride="carousel">
138     <div class="carousel-indicators">
139       ${indicators}
140     </div>
141     <div class="carousel-inner">
142       ${slides}
143     </div>
144     <button class="carousel-control-prev" type="button" data-bs-target="#${carouselId}" data-bs-slide="prev">
145       <span class="carousel-control-prev-icon" aria-hidden="true"></span>
146       <span class="visually-hidden">Previous</span>
147     </button>
148     <button class="carousel-control-next" type="button" data-bs-target="#${carouselId}" data-bs-slide="next">
149       <span class="carousel-control-next-icon" aria-hidden="true"></span>
150       <span class="visually-hidden">Next</span>
151     </button>
152   </div>
153 `;
154
155 $("#destinationCarouselWrapper").html(carouselHtml);

```

Screenshots of Final Output





Plan Your Perfect Holiday

Discover amazing destinations and create unforgettable memories

Destination Search

Interest


City

SEARCH DESTINATIONS

New York

Paris

Tokyo



New York

Accommodation and Transport

Hotel

Hotel Name

Transport

Flights

SAVE ACCOMMODATION & TRANSPORT

Activity Planner

Activity

Sightseeing

Date

dd-mm-yyyy

Time

--:--

ADD ACTIVITY

Trip Itinerary

Accommodation & Transport: Hotel N/A, Transport: Flight

Activity: sightseeing

Budget Tracker

Flight Cost

12000

Hotel Cost

1800

Activity Cost

1000

UPDATE BUDGET

Estimated Total Cost: \$21800

Flight: \$12000 | Hotel: \$1800 | Activities: \$1000

Conclusion

This holiday planner website project showcases the ability to design and develop a user-friendly, visually appealing front-end using HTML, CSS, and JavaScript. Through this mini project, I strengthened my front-end development skills, gaining practical experience with responsive layouts, semantic structuring, and dynamic interactivity. I learned valuable lessons about UI hierarchy, accessibility, and maintaining consistency in design across different devices. This hands-on implementation highlighted the importance of user-centric design principles and clean code practices, providing a solid foundation for future web development projects. The project not only demonstrates core technical skills but also reveals an understanding of creating engaging, functional user experiences.

References

- L&T LMS : <https://learn.lntedutech.com/Landing/MyCourse>
- <https://www.w3schools.com/css/default.asp>
- <https://www.w3schools.com//default.asp>