**Project Title:**

"Holiday Planner – A Responsive Travel Planning Web App" **Submitted By:** o Team Members:

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**Institution:**

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# ABSTRACT

The Holiday Planner is a responsive and interactive front-end web application designed to help users plan their travel experiences in a structured and user-friendly manner. The project allows users to explore a variety of popular travel destinations, filter them based on categories such as beaches, mountains, or cities, and select a preferred destination for trip planning.

Once a destination is selected, users can choose accommodation types, modes of transport, and optional activities such as sightseeing or food tours. The application calculates the total estimated cost dynamically based on the user’s selections. Additionally, users can build a personalized itinerary by adding activities along with the date and time, helping them plan their travel days more effectively.

The core technologies used in this project include HTML5, CSS3, Bootstrap 5, and jQuery, ensuring both functionality and responsiveness across devices. The focus was on implementing clean UI design, intuitive user interaction, and logical content structure.

This front-end mini project serves as a prototype that demonstrates practical application of UI/UX principles in travel planning. It offers real-world usefulness by helping users visualize and organize their trips with budget estimation and activity planning features.

# OBJECTIVES

The primary objective of this project is to design and develop a responsive travel planning web application that enhances user engagement through an intuitive and visually appealing interface. The goal is to ensure a smooth and efficient experience for users who wish to explore, plan, and manage their travel details in one place.

Key objectives include:

* Designing a user-friendly interface based on modern UI/UX principles that prioritizes clarity, usability, and visual hierarchy.
* Developing a fully responsive layout that adapts seamlessly to desktop, tablet, and mobile devices.
* Implementing structured HTML5 semantic elements for better accessibility, SEO, and maintainability.
* Enabling users to filter destinations by categories such as beach, mountain, or city.
* Providing a real-time budget estimator based on selected transport, accommodation, and activities.
* Allowing users to add custom itinerary items with specific dates and times for better trip planning.
* Applying CSS3 and Bootstrap 5 for consistent styling, responsiveness, and layout control across all sections.

These objectives collectively contribute to a functional, interactive, and visually appealing travel planning tool.

# SCOPE OF PROJECT

The Holiday Planner project is strictly focused on front-end development, with no backend or server-side functionalities involved. The application does not include features such as user authentication, data storage, or real-time database interaction. Instead, it is designed as a prototype to showcase interactive UI/UX concepts for a travel planning interface.

The project targets cross-device compatibility, ensuring that the layout and features work smoothly on desktops, tablets, and smartphones. All features are implemented using opensource technologies including HTML5, CSS3, Bootstrap 5, and jQuery. No external libraries or paid tools were used in the development process.

The scope includes features like destination filtering, itinerary creation, and budget estimation — all handled entirely on the client side. The design emphasizes modern UI principles such as visual hierarchy, spacing, contrast, and responsive behavior.

This project is intended for educational and demonstration purposes only and is not intended for deployment in a live production environment.

# TOOLS AND TECHNOLOGIES USED

|  |  |
| --- | --- |
| Tool/Technology | Purpose |
| HTML5 | Markup and semantic structure |
| CSS3 | Styling, theming, layout control |
| Bootstrap 5 | Responsive grid and UI components |
| jQuery | DOM manipulation and event handling |
| VS Code | Code editor |
| Chrome DevTools | Testing and live debugging |
| Google Fonts | Custom font integration (Poppins) |

# HTML Structure Overview

* Used semantic elements for clean structure:
  + <header> for the navigation bar o <section> for planner and budget modules
  + <footer> for the closing note
* Organized into logical sections:
  + Navbar
  + Destination Filters o Destination Cards o Trip Planner o Budget Tracker
  + Footer
* Destination cards use the Bootstrap grid system for layout.
* Interactive buttons and select dropdowns enhance user experience.
* Used anchor-based navigation for smooth scrolling (#trip-planner, #budget-tracker).

# CSS Styling Strategy

* Custom styles separated in an external file (style.css)
* Font imported via Google Fonts (Poppins)
* Organized with meaningful sections and comments:
  + Navbar o Section headings o Cards o Buttons o Planner & Budget o Footer
* Responsive Techniques:
  + Used Bootstrap's responsive grid system (col-md-4, etc.)
  + Used media queries implicitly via Bootstrap
* Design Features:
  + Gradient backgrounds for visual interest o Button hover effects and transitions o Shadow effects for cards
  + Rounded corners and padding for a modern look

# JavaScript/jQuery Functionality

|  |  |
| --- | --- |
| Functionality | Handled By |
| Destination selection | jQuery .click() event |
| Budget calculation | jQuery .change() event |
| Itinerary item addition | jQuery .click() with form validation |
| Destination filtering | jQuery .click() with attribute matching |
| Scroll-to behavior | jQuery animate() function |

# Key Features

|  |  |
| --- | --- |
| Feature | Description |
| Responsive Design | Layout adapts smoothly across desktops, tablets, and mobile devices. |
| Smooth Navigation | Fixed top navbar with anchor links for quick access to sections. |
| Destination  Filtering | Filter buttons allow users to view destinations by type: Beach, City, Mountains. |
| Interactive Cards | Bootstrap cards with hover effects and selection buttons for each destination. |
| Itinerary Planner | Users can add custom activities with date and time to create a travel itinerary. |
| Budget Estimation | Dynamic budget calculation based on selected hotel, transport, and activities. |
| Bootstrap  Integration | Uses Bootstrap 5 for responsive grid, forms, buttons, and components. |
| Custom Styling | Clean, modern UI using CSS3 and Google Fonts for consistent branding. |
| Client-Side Logic | All interactions handled using jQuery, without backend or database integration. |
| Accessibility Focus | Readable fonts, proper contrast, and semantic HTML elements improve usability. |

# Challenges Faced & Solutions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | Challenge | | Overlapping elements on smaller screens | | Difficulty aligning and spacing elements | | Typography scaling inconsistently | | Inconsistent spacing between components | | Budget not updating in real-time | | Itinerary not clearing after input | | Poor image responsiveness | | |  | | --- | | Solution | | Used Bootstrap grid and media queries to create a responsive layout. | | Replaced float with Flexbox and Bootstrap utility classes. | | Switched to relative units (em, rem) for scalable text sizes. | | Utilized Bootstrap spacing classes (mb-4, p-3, etc.) for consistency. | | Added jQuery .change() events to trigger dynamic cost calculation. | | Used jQuery to reset form fields after adding to the itinerary. | | Applied Bootstrap’s .img-fluid and set object-fit for uniform scaling. | |

# Outcome

* Successfully developed a clean, modern, and responsive travel planner UI using HTML5, CSS3, Bootstrap 5, and jQuery.
* Achieved a visually consistent layout across various devices, including mobile, tablet, and desktop.
* Implemented key features like destination filtering, budget calculation, and itinerary planning using only front-end technologies.
* Ensured smooth navigation, readable typography, and accessible color contrast throughout the interface.
* Gained practical understanding of responsive design, semantic HTML, and visual hierarchy in UI/UX design.
* Improved proficiency in using Bootstrap components, utility classes, and custom CSS for styling.
* Validated the project as a complete front-end prototype, ready for further enhancement or integration.

# Future Enhancements

* Add form validation and dynamic feedback using vanilla JavaScript or a JS framework.
* Integrate animations or transitions (e.g., fade-ins, modals, slide effects) for better visual interaction.
* Implement a backend system using Node.js, PHP, or Firebase for storing itinerary data and user input.
* Enable persistent storage (e.g., localStorage or database) to save trip plans across sessions.
* Add a theme toggle (Light/Dark mode) to improve accessibility and user customization.
* Introduce user login/signup features for personalized trip planning.
* Optimize performance and SEO by minimizing assets and improving semantic structure.
* Deploy the application online using platforms like GitHub Pages, Netlify, or Vercel.

# Sample code

Index.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>

<!-- Bootstrap CSS -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

<!-- Custom CSS -->

<link rel="stylesheet" href="style.css">

</head>

<body>

// Navbar

<nav class="navbar navbar-expand-lg">

<div class="container">

<a class="navbar-brand" href="#">Holiday Planner</a>

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bstarget="#navbarNav">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarNav">

<ul class="navbar-nav ms-auto">

<li class="nav-item"><a class="nav-link" href="#destinations">Destinations</a></li>

<li class="nav-item"><a class="nav-link" href="#trip-planner">Planner</a></li>

<li class="nav-item"><a class="nav-link" href="#budget-tracker">Budget</a></li>

</ul>

</div>

</div>

</nav>

<!-- Destination Search -->

<h2>Choose Your Destination</h2>

<div class="text-center mb-4">

<button class="btn btn-outline-primary filter-btn" data-filter="all">All</button>

<button class="btn btn-outline-primary filter-btn" data-filter="beach">Beach</button>

<button class="btn btn-outline-primary filter-btn" datafilter="mountains">Mountains</button>

<button class="btn btn-outline-primary filter-btn" data-filter="city">City</button> </div>

<div class="row" id="destinations">

<!-- Goa -->

<div class="col-md-4 mb-4 destination-card" data-category="beach">

<div class="card">

<img src="images/goa.jpg" class="card-img-top" alt="Goa">

<div class="card-body">

<h5 class="card-title">Goa (Beach)</h5>

<p class="card-text">Sunny beaches, nightlife & seafood.</p>

<button class="btn btn-primary select-destination" datadestination="Goa">Select</button>

</div>

</div>

</div>

<!-- Manali -->

<div class="col-md-4 mb-4 destination-card" data-category="mountains">

<div class="card">

<img src="images/manali.jpg" class="card-img-top" alt="Manali">

<div class="card-body">

<h5 class="card-title">Manali (Mountains)</h5>

<p class="card-text">Snowy peaks, adventure sports & calm valleys.</p>

<button class="btn btn-primary select-destination" datadestination="Manali">Select</button>

</div>

</div>

</div>

<!-- Paris -->

<div class="col-md-4 mb-4 destination-card" data-category="city">

<div class="card">

<img src="images/paris.jpg" class="card-img-top" alt="Paris">

<div class="card-body">

<h5 class="card-title">Paris (City)</h5>

<p class="card-text">Eiffel Tower, museums & romantic streets.</p>

<button class="btn btn-primary select-destination" datadestination="Paris">Select</button>

</div>

</div>

</div>

<!-- Kerala -->

<div class="col-md-4 mb-4 destination-card" data-category="beach">

<div class="card">

<img src="images/kerala.jpg" class="card-img-top" alt="Kerala">

<div class="card-body">

<h5 class="card-title">Kerala (Beach & Backwaters)</h5>

<p class="card-text">Backwaters, houseboats & beaches.</p>

<button class="btn btn-primary select-destination" datadestination="Kerala">Select</button>

</div>

</div>

</div>

//Dubai

<div class="col-md-4 mb-4 destination-card" data-category="city">

<div class="card">

<img src="images/dubai.jpg" class="card-img-top" alt="Dubai">

<div class="card-body">

<h5 class="card-title">Dubai (City)</h5>

<p class="card-text">Skyscrapers, shopping & desert safaris.</p> <button class="btn btn-primary select-destination" datadestination="Dubai">Select</button>

</div>

</div>

</div>

//Switzerland

<div class="col-md-4 mb-4 destination-card" data-category="mountains">

<div class="card">

<img src="images/switzerland.jpg" class="card-img-top" alt="Switzerland">

<div class="card-body">

<h5 class="card-title">Switzerland (Mountains)</h5>

<p class="card-text">Alps, snow resorts & scenic landscapes.</p>

<button class="btn btn-primary select-destination" datadestination="Switzerland">Select</button>

</div>

</div>

</div>

</div>

//Planner

<section id="trip-planner" class="my-5">

<h2>Plan Your Trip</h2>

<h4 id="selectedDestination" class="mb-3">No destination selected</h4>

<div class="mb-3">

<label for="hotel" class="form-label">Select Accommodation:</label>

<select id="hotel" class="form-select">

<option value="0">-- Select Hotel --</option>

<option value="5000">5-Star Hotel (₹5000)</option>

<option value="3000">3-Star Hotel (₹3000)</option>

<option value="1000">Budget Stay (₹1000)</option>

</select>

</div>

<div class="mb-3">

<label for="transport" class="form-label">Select Transport:</label>

<select id="transport" class="form-select">

<option value="0">-- Select Transport --</option>

<option value="7000">Flight (₹7000)</option>

<option value="2000">Train (₹2000)</option>

<option value="1000">Bus (₹1000)</option>

</select>

</div>

<div class="mb-3">

<label class="form-label">Choose Activities:</label><br>

<input type="checkbox" class="activity" value="2000"> Sightseeing (₹2000)<br>

<input type="checkbox" class="activity" value="4000"> Adventure Sports (₹4000)<br>

<input type="checkbox" class="activity" value="1500"> Food Tour (₹1500)<br>

</div>

<div class="mb-3">

<label class="form-label">Add to Itinerary:</label>

<input type="text" id="itineraryActivity" class="form-control mb-2" placeholder="Enter activity">

<input type="date" id="itineraryDate" class="form-control mb-2">

<input type="time" id="itineraryTime" class="form-control mb-2">

<button id="addItinerary" class="btn btn-primary">Add</button>

</div>

<ul id="itineraryList" class="list-group"></ul>

</section>

// Budget Tracker

<section id="budget-tracker" class="my-5">

<h2>Budget Tracker</h2>

<h4 id="totalBudget">Total Estimated Cost: ₹0</h4>

</section>

</div>

//Footer

<footer>

<p>© 2025 Holiday Planner | Designed with using Bootstrap</p> </footer>

// Bootstrap JS & jQuery

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

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></scrip t>

<script src="script.js"></script>

</body>

</html>

style.css

/\* Import Google Font \*/

@import

url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap'); body { font-family: 'Poppins', sans-serif; background-color: #f4f7fb; margin: 0; padding: 0; color: #333; line-height: 1.6;

}

/\* Navbar \*/ .navbar { background: linear-gradient(90deg, #0077b6, #0096c7); padding: 12px 20px;

}

.navbar-brand { font-weight: 600; color: #fff !important; font-size: 1.6rem; letter-spacing: 1px;

}

.navbar-nav .nav-link { color: #f1f1f1 !important; margin-right: 20px; font-weight: 500; transition: color 0.3s ease;

}

.navbar-nav .nav-link:hover { color: #ffd166 !important;

}

/\* Section Headings \*/ h2 { margin: 40px 0 25px; font-weight: 600; color: #023e8a; text-align: center; position: relative;

}

h2::after { content: ""; display: block; width: 60px; height: 4px;

background: #0096c7; margin: 10px auto 0; border-radius: 2px;

}

/\* Destination Cards \*/

.card {

border: none; border-radius: 15px; overflow: hidden; box-shadow: 0px 6px 12px rgba(0, 0, 0, 0.15); transition: transform 0.3s ease, box-shadow 0.3s ease;

display: flex; flex-direction: column;

}

.card:hover { transform: translateY(-6px); box-shadow: 0px 10px 20px rgba(0, 0, 0, 0.25);

}

.card-img-top {

height: 150px; object-fit: cover;

border-bottom: 1px solid #eee;

}

.card-body { flex-grow: 1; padding: 18px; background: #fff;

display: flex; flex-direction: column; justify-content: space-between;

}

.card-title {

font-size: 1.2rem; font-weight: 600; margin-bottom: 10px; color: #0077b6;

}

.card-text { font-size: 0.95rem; color: #555; margin-bottom: 15px;

}

/\* Buttons \*/ .btn-primary { background: linear-gradient(90deg, #0096c7, #00b4d8); border: none; font-weight: 500; padding: 8px 18px; border-radius: 25px; transition: 0.3s ease;

}

.btn-primary:hover { background: linear-gradient(90deg, #0077b6, #0096c7); transform: scale(1.05);

}

.filter-btn {

margin: 5px; border-radius: 25px; font-weight: 500; padding: 6px 16px; border: 1px solid #0096c7; color: #0096c7; background: #fff; transition: all 0.3s ease;

}

.filter-btn:hover {

background-color: #0096c7;

color: #fff !important;

}

/\* Planner & Budget Sections \*/ #trip-planner, #budget-tracker { background: #ffffff; padding: 25px; border-radius: 15px; box-shadow: 0px 6px 12px rgba(0, 0, 0, 0.1); margin-bottom: 30px;

}

#trip-planner h4, #budget-tracker h4 { color: #0077b6; font-weight: 600; margin-bottom: 15px;

}

#itineraryList li {

font-size: 0.95rem; margin-bottom: 8px; border-left: 4px solid #0096c7; padding-left: 10px; background: #f1faff; border-radius: 5px;

}

/\* Footer \*/ footer { text-align: center; padding: 20px; margin-top: 40px; background: #0077b6;

color: white; font-size: 0.9rem; letter-spacing: 0.5px;

}

script.js

// Destination Selection

$(document).on("click", ".select-destination", function () { let destination = $(this).data("destination");

$("#selectedDestination").text("Selected Destination: " + destination);

});

// Accommodation, Transport & Activities cost calculation function calculateBudget() { let hotelCost = parseInt($("#hotel").val()) || 0; let transportCost = parseInt($("#transport").val()) || 0;

let activitiesCost = 0;

$(".activity:checked").each(function () { activitiesCost += parseInt($(this).val());

});

let total = hotelCost + transportCost + activitiesCost;

$("#totalBudget").text("Total Estimated Cost: ₹" + total);

}

$("#hotel, #transport, .activity").on("change", calculateBudget);

// Add itinerary items

$("#addItinerary").click(function () { let activity = $("#itineraryActivity").val(); let date = $("#itineraryDate").val(); let time = $("#itineraryTime").val();

if (activity && date && time) {

let listItem =

"<li class='list-group-item'>" +

activity + " on " + date + " at " + time +

"</li>";

$("#itineraryList").append(listItem);

// clear fields after adding

$("#itineraryActivity").val("");

$("#itineraryDate").val("");

$("#itineraryTime").val("");

} else {

alert("Please enter activity, date, and time!");

}

});

// Destination Filtering $(".filter-btn").click(function () { let filter = $(this).data("filter");

if (filter === "all") {

$(".destination-card").show();

} else {

$(".destination-card").hide();

$('.destination-card[data-category="' + filter + '"]').show();

}

});

// Destination select buttons

$(document).ready(function() {

$(".select-destination").click(function() { var destination = $(this).data("destination"); // get clicked destination

$("#selectedDestination").text("Selected Destination: " + destination);

// Optional: scroll to Trip Planner section smoothly

$('html, body').animate({ scrollTop: $("#trip-planner").offset().top

}, 600);

});

// Filtering buttons

$(".filter-btn").click(function() { var filter = $(this).data("filter"); if(filter === "all"){

$(".destination-card").show();

} else {

$(".destination-card").hide();

$('.destination-card[data-category="'+filter+'"]').show();

}

});

});

# SCREENSHOT OF THE WEBSITE







