Front-End UI/UX Mini Project

Project Title: Holiday Planner

Submitted By:

1. Kuragayala Rachel

2462106

kuragayala.rachel@btech.christuniversity.in

2. Akshatha N

2462020

Akshatha.n@btech.christuniversity.in

3. Jerusha S

2462082

jerusha.s@btech.christuniversity.in

- **Course**: UI/UX Design Fundamentals
- **Instructor Name**: Dhiraj
- **Institution:** Christ University
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Abstract

The Holiday Planner project is a web-based application designed to simplify vacation planning by allowing users to choose destinations, accommodations, transportation, and activities. The application generates a personalized itinerary and calculates an estimated budget. It uses modern web technologies such as HTML, CSS, JavaScript, Bootstrap, and jQuery to provide an interactive and responsive interface for users to create their dream trips.

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Objective and Project Goals

Objective:

To develop an interactive and responsive holiday planner website that streamlines the vacation planning process for users.

Project Goals:

1. Allow users to select destinations (beach, mountain, city).
2. Provide options for accommodation and transportation.
3. Let users choose from a variety of activities.
4. Automatically generate a trip itinerary.
5. Track and display estimated costs for better budget management.
6. Ensure the website is mobile-friendly and visually appealing.

Scope of the Project

- The project covers **vacation planning** at a basic level.
- It focuses on a **single-user interface** where one person can plan a trip.
- It includes destination selection, accommodation, transport, activities, itinerary creation, and budget estimation.
- Advanced features like real-time booking, user accounts, or live APIs (e.g., Google Flights, hotel booking) are **out of scope** for this version but can be added as future enhancements.

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Tools and Technologies Used

- **HTML5** - Page structure and semantic elements.
- **CSS3** - Styling and layout customization.
- **Bootstrap 5** - Responsive design and prebuilt components.
- **JavaScript (ES6)** - Logic for calculations and interactivity.
- **jQuery** - Simplified DOM manipulation and event handling.
- **Unsplash Images (via links)** - High-quality destination images.

HTML Structure Overview

- **Banner Section** - Displays a welcoming message and theme of the planner.
- **Destination Section** - Allows selection of destination through cards or dropdown.
- **Accommodation & Transport Section** - Dropdowns for hotel and transport options.
- **Activity Planner** - Checkbox-based activity selection.
- **Itinerary Section** - Textarea to display generated itinerary.
- **Budget Tracker** - Real-time budget calculation.
- **Generate Button** - Final action to compile trip details and show itinerary.

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CSS Styling Strategy

- Used **Bootstrap classes** for responsiveness and grid layout.
- Custom CSS to enhance aesthetics:
    - Linear gradient background banner.
    - Box-shadow and hover effects on activity cards.
    - Rounded corners and consistent padding for cards.
    - Distinct typography for budget tracker.

Key Features

1. **Destination Search** – Quick selection of beach, mountain, or city.
2. **Accommodation & Transport Selection** – Dropdown menus with price-tagged options.
3. **Activity Planner** – Users can select multiple activities with cost integration.
4. **Budget Tracker** – Dynamic calculation of total estimated expenses.
5. **Trip Itinerary Generator** – Auto-compiles all selected trip details.
6. **Responsive Design** – Optimized for desktops, tablets, and mobile devices.

Challenges Faced and Solutions

1. **Challenge:** Keeping budget updated dynamically.
    - **Solution:** Used jQuery change event listeners to update budget instantly.
2. **Challenge:** Generating itinerary with user-friendly formatting.
    - **Solution:** Concatenated selected options into a string displayed in a textarea.

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3. **Challenge:** Ensuring responsiveness across devices.
    - **Solution:** Bootstrap grid system and media queries.
4. **Challenge:** Making the UI engaging and interactive.
    - **Solution:** Added hover effects, custom banner styling, and icons

Outcome

- Successfully developed a **functional holiday planner website** with an intuitive UI.
- Users can plan trips easily and instantly view cost estimates and itineraries.
- The project demonstrates the **integration of HTML, CSS, Bootstrap, JavaScript, and jQuery** effectively.

Future Enhancements

1. Integration with **APIs** (Google Maps, Skyscanner, Booking.com).
2. **User accounts** for saving and editing plans.
3. **Calendar-based itinerary scheduling** with dates and times.
4. **Multi-destination planning** for longer trips.
5. Export itinerary as **PDF or email sharing** option.

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Sample Code

- **HTML CODE**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>🌴 Dream Holiday Planner 🌄</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
  <link rel="stylesheet" href="style.css">
</head>
<body>

<div class="container my-5">
  <!-- Creative Banner -->
  <div class="banner">
    <h1>Your Dream Destination! 🌴</h1>
    <p>Plan your perfect vacation with ease!</p>
  </div>

  <!-- Destination Selection -->
  <div class="card p-3 mb-3">
    <h5>Choose Your Destination</h5>
    <div class="row mt-2">
      <div class="col-md-4 mb-2">
        <div class="card activity-card" onclick="$('#destination').val('beach')">
          <img src="https://images.unsplash.com/photo-1507525428034-b723cf961d3e?auto=format&fit=crop&w=4
          <div class="card-body text-center"><p class="card-text">Beach</p></div>
        </div>
      </div>
      <div class="col-md-4 mb-2">
        <div class="card activity-card" onclick="$('#destination').val('mountain')">
          <img src="https://images.unsplash.com/photo-1501785888041-af3ef285b470?auto=format&fit=crop&w=4
          <div class="card-body text-center"><p class="card-text">Mountain</p></div>
        </div>
      </div>
      <div class="col-md-4 mb-2">
        <div class="card activity-card" onclick="$('#destination').val('city')">
          <img src="https://images.unsplash.com/photo-1512453979798-5ea266f8880c?auto=format&fit=crop&w=4
          <div class="card-body text-center"><p class="card-text">City</p></div>
        </div>
```

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```
<!-- Activity Planner -->
<div class="card p-3 mb-3">
  <h5>Select Activities & Schedule</h5>
  <div class="row">
    <!-- Activity 1 -->
    <div class="col-md-4 mb-2">
      <div class="form-check card p-2 activity-card">
        <input class="form-check-input activity" type="checkbox" value="50" id="activity1">
        <label class="form-check-label" for="activity1">🚕 Sightseeing ($50)</label>
        <input type="date" class="form-control mt-2 activity-date" data-for="activity1" disabled>
        <input type="time" class="form-control mt-2 activity-time" data-for="activity1" disabled>
      </div>
    </div>
    <!-- Activity 2 -->
    <div class="col-md-4 mb-2">
      <div class="form-check card p-2 activity-card">
        <input class="form-check-input activity" type="checkbox" value="100" id="activity2">
        <label class="form-check-label" for="activity2">🪂 Adventure Sports ($100)</label>
        <input type="date" class="form-control mt-2 activity-date" data-for="activity2" disabled>
        <input type="time" class="form-control mt-2 activity-time" data-for="activity2" disabled>
      </div>
    </div>
    <!-- Activity 3 -->
    <div class="col-md-4 mb-2">
      <div class="form-check card p-2 activity-card">
        <input class="form-check-input activity" type="checkbox" value="30" id="activity3">
        <label class="form-check-label" for="activity3">🏛️ Museum Visit ($30)</label>
        <input type="date" class="form-control mt-2 activity-date" data-for="activity3" disabled>
        <input type="time" class="form-control mt-2 activity-time" data-for="activity3" disabled>
      </div>5
    </div>
  </div>
</div>

<!-- Trip Itinerary -->
<div class="card p-3 mb-3">
  <h5>Trip Itinerary</h5>
  <textarea id="itinerary" class="form-control" rows="6" placeholder="Your itinerary will appear here..
```

```
  <!-- Trip Itinerary -->
  <div class="card p-3 mb-3">
    <h5>Trip Itinerary</h5>
    <textarea id="itinerary" class="form-control" rows="6" placeholder="Your itinerary will appear here..
  </div>

  <!-- Budget Tracker -->
  <div class="card p-3 mb-3 text-center">
    <h5>Budget Tracker</h5>
    <p>Total Estimated Cost: $<span id="budget">0</span></p>
  </div>

  <button id="generateTrip" class="btn btn-primary w-100 btn-lg">Generate My Dream Trip ✈️</button>
</div>

<!-- jQuery + Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="script.js"></script>
</body>
</html>
```

- JS CODE

```javascript
$(document).ready(function() {
  // Enable/disable date & time inputs when activities are checked
  $('.activity').on('change', function() {
    const activityId = $(this).attr('id');
    const dateInput = $(`.activity-date[data-for="${activityId}"]`);
    const timeInput = $(`.activity-time[data-for="${activityId}"]`);

    if ($(this).is(':checked')) {
      dateInput.prop('disabled', false);
      timeInput.prop('disabled', false);
    } else {
      dateInput.prop('disabled', true).val('');
      timeInput.prop('disabled', true).val('');
    }

    updateBudget();
  });

  // Budget calculator
  function updateBudget() {
    let hotel = parseInt($('#hotel').val()) || 0;
    let transport = parseInt($('#transport').val()) || 0;
    let activities = 0;
    $('.activity:checked').each(function() {
      activities += parseInt($(this).val());
    });
    $('#budget').text(hotel + transport + activities);
  }

  // Generate Itinerary
  function generateItinerary() {
    let destination = $('#destination').val();
    let hotelText = $("#hotel option:selected").text();
    let transportText = $("#transport option:selected").text();
    let activitiesList = [];

    $('.activity:checked').each(function() {
      const activityName = $(this).next('label').text();
      const date = $(`.activity-date[data-for="${$(this).attr('id')}"]`).val();
      const time = $(`.activity-time[data-for="${$(this).attr('id')}"]`).val();
      activitiesList.push(`${activityName} on ${date || "unspecified date"} at ${time || "unspecified time
```

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- CSS CODE

```css
body {
  background-color: #f0f8ff;
}

.banner {
  background: linear-gradient(to right, #00c6ff, #0072ff);
  color: white;
  padding: 30px;
  text-align: center;
  border-radius: 10px;
  margin-bottom: 30px;
  box-shadow: 0 5px 15px rgba(0,0,0,0.2);
}

.card img {
  border-radius: 10px;
  height: 150px;
  object-fit: cover;
}

.budget {
  font-weight: bold;
  font-size: 1.2rem;
  color: #0072ff;
}

.activity-card {
  cursor: pointer;
  transition: transform 0.2s;
}

.activity-card:hover {
  transform: scale(1.05);
  box-shadow: 0 4px 10px rgba(0,0,0,0.2);
}

```

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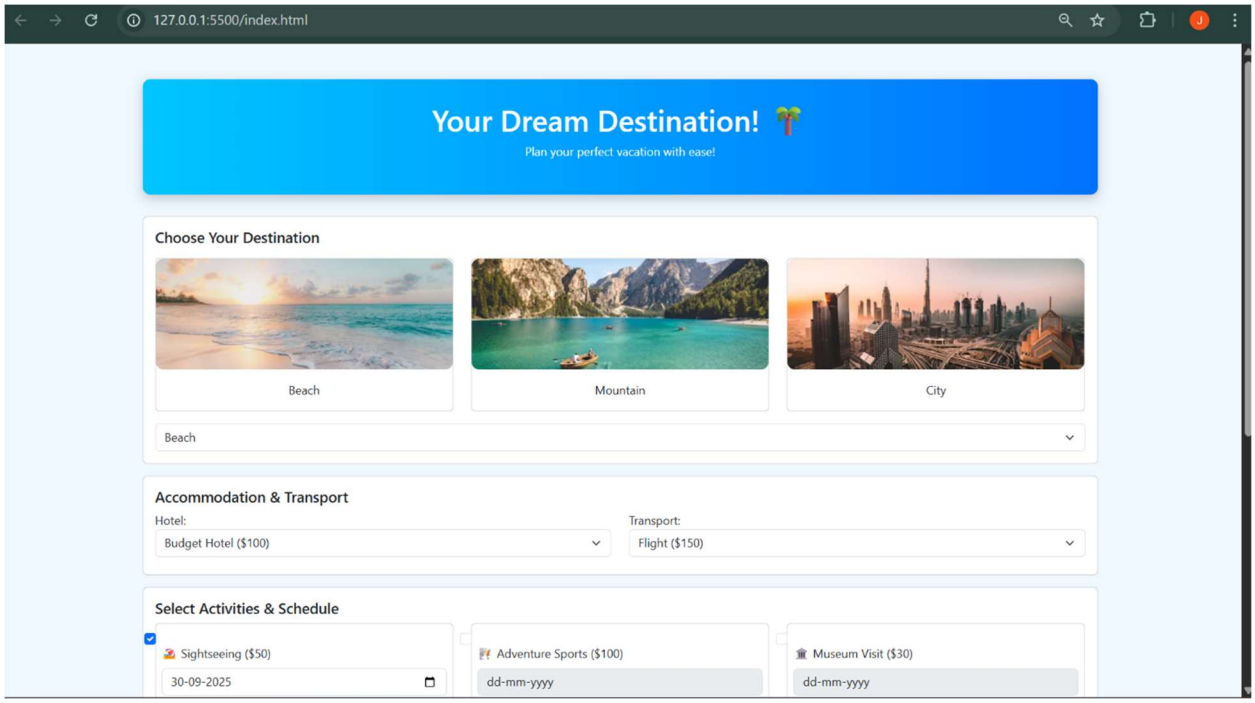
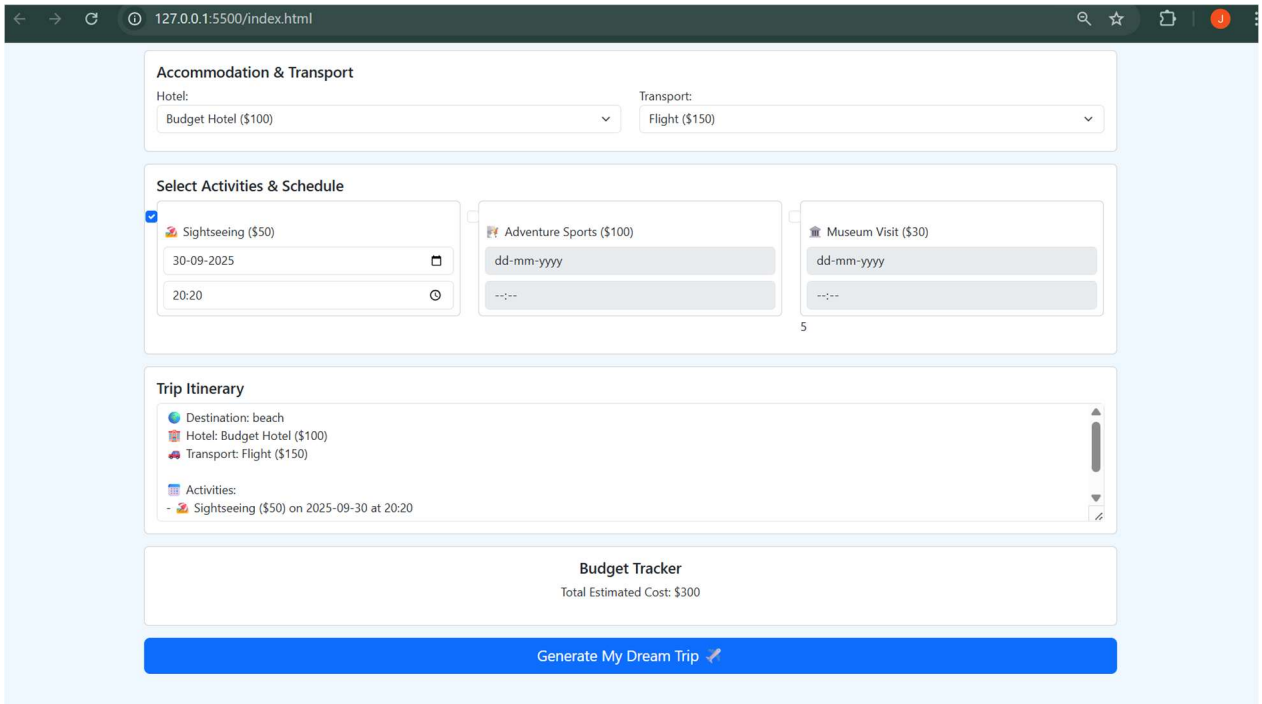
Screenshots of Final Output





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Conclusion

The Holiday Planner project successfully achieves its objective of creating an interactive, user-friendly vacation planning platform. It enables destination selection, activity planning, itinerary generation, and cost estimation within a responsive web design. While currently basic, it lays the foundation for more advanced travel planning applications that can be integrated with live booking systems in the future.

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