

**MCA Semester – III**

**Front End Development Project**

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| **Name** | **SHIJU SHAJI** |
| **USN** | **221VMTR02346** |
| **Elective** | **FULL STACK DEVELOPMENT** |
| **Date of Submission** | **20/12/2023** |



**Front End Development Project - Report**

Project Report submitted to Jain Online (Deemed-to-be University) as part of the course “Front End Development Project”

**Master of Computer Applications**

*Submitted by*

**SHIJU SHAJI**

USN

**221VMTR02346**

*Under the*

*guidance of*

Nikhil Karale

**DECLARATION**

I, *Shiju Shaji* hereby declare that this Project Report has been prepared by me under the guidance of *Nikhil Karale* I declare that this Project is towards the partial fulfilment of the credit requirement for the course “Front End Development Project,” which is part of the Master of Computer Applications degree given by Jain University, Bengaluru. I declare that the work done by me towards this Project is original in nature and is my own contribution.

Place: Bangalore *Shiju Shaji*

Date: 20/12/2023 *221VMTR02346*

**CERTIFICATE**

This is to certify that the Project report submitted by Mr./Ms. *Shiju Shaji* bearing 221VMTR02346on the title **“Front End Development Project”**is a record of project work done by him/ her during the academic year 2023-24 under my guidance and supervision in partial fulfilment of Master of Computer Applications.

Place: Bangalore

Date: *20/12/2023*

**ACKNOWLEDGEMENT**

I extend my heartfelt gratitude to all those who have contributed to the successful completion of my research project. Their guidance, support, and encouragement have been invaluable throughout this endeavour.

Firstly, I would like to express my sincere appreciation to my Organization Guide, whose expert insights and continuous support greatly aided me in understanding the practical aspects of the project. His guidance has been instrumental in shaping the direction and execution of my work.

I am deeply thankful to the University Official, for his constant encouragement and support. His belief in the significance of this project inspired me to strive for excellence and meet the standards set by our esteemed institution. Special thanks are due to Mr. Nikhil Karale my Faculty Guide, for his mentorship and scholarly advice. His expertise and guidance have immensely contributed to the depth and quality of my research.

I also extend my gratitude to all the faculty members whose valuable feedback and suggestions enriched my project. Their inputs played a crucial role in refining my understanding and approach towards the research topic. Furthermore, I am thankful to my classmates for their encouragement, discussions, and support throughout this journey. Their diverse perspectives and collaborative spirit have been enriching. Lastly, I express my sincere gratitude to my family and friends for their unwavering support and understanding during this academic pursuit.

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*Shiju Shaji*

*221VMTR02346*

**EXECUTIVE SUMMARY**

The project aimed to create a user-friendly travel website featuring a dynamic homepage with a clear navigation menu and engaging visuals. It included sections for booking travel, showcasing attractive packages, highlighting offered services, displaying a captivating gallery, and sharing company information. The site allowed users to seamlessly select destinations, book travel, and explore services like hotels and safety guides.

Utilizing card formats, the package gallery showcased images, destination names, brief descriptions, USD prices, ratings, and booking options. The Services section highlighted amenities such as Affordable Hotels and Food & Drinks.

Incorporating engaging design elements like hover transformations, the Gallery section presented captivating photos of travel experiences. The "About Us" segment shared insights into the company's background and establishment. Additionally, the site incorporated user-friendly registration and login functionalities with proper validations. It was deployed on a platform called GitHub for accessibility. The project's success was a result of collaborative efforts, meticulous planning, and dedication to creating an immersive and efficient travel website interface.

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1. **Introduction**

In response to the evolving needs of the travel industry and the growing demand for seamless online experiences, this project aims to develop a sophisticated travel website. The primary objective is to create an intuitive platform that simplifies travel planning and booking processes while providing comprehensive information and services to users.

The website's core structure commences with a welcoming and visually engaging homepage, integrating a user-friendly navigation menu. This menu, strategically designed at the top, facilitates easy access to essential sections such as Home, Book, Packages, Services, Gallery, and About. The Packages menu introduces a dropdown feature, offering options for multiple destinations, enhancing user exploration.

An essential element of the homepage is a captivating background image placed at the bottom of the navigation menu. This image serves as a backdrop for a welcoming message and an invitation to explore different destinations, further enhancing the site's appeal and user engagement.

The subsequent sections are meticulously designed to enrich user experience and functionality. The booking section enables users to select destinations, specify travel details, and successfully make reservations. Additionally, the Package Gallery presents enticing travel packages in card format, each showcasing destination images, descriptions, USD prices, ratings, and convenient booking options.

Moreover, the Services section emphasizes various amenities offered by the company, catering to essential aspects of travel such as accommodation, dining, and safety. These services are presented in a user-friendly format for easy comprehension and access.

The Gallery section features a collection of captivating photos, providing users with glimpses of the unique experiences offered by the company. Employing visual transformations upon hover enhances user interaction and engagement.

The "About Us" segment shares the company's background and establishment, providing users with insights into the brand's ethos and identity.

Crucially, the site incorporates secure user registration and login functionalities, ensuring a safe and personalized experience. The chosen technology stack comprising HTML, CSS, and JavaScript, developed using tools like Visual Studio and Chrome, aligns with industry standards for robust and efficient web development. Furthermore, the deployment on platforms like GitHub ensures accessibility and reliability.

This project's significance lies in its ability to streamline travel planning, offer comprehensive services, and provide an immersive user experience, contributing to the ever-evolving landscape of online travel platforms.

**2. Objectives**

The project sets out with several specific goals aimed at revolutionizing the online travel experience and providing users with a comprehensive platform for seamless travel planning and booking.

1. **Enhanced User Experience:** The primary objective is to create an intuitive and engaging interface that simplifies navigation, allowing users to effortlessly explore destinations, book packages, and access essential services.

2. **Efficient Booking System:**  The project aims to develop a robust booking system, enabling users to select destinations, specify travel details, and successfully make reservations while ensuring a smooth and user-friendly process.

 3.  **Information Accessibility:**  The platform intends to provide comprehensive information about various travel packages, services, and destinations, empowering users to make informed decisions regarding their travel plans.

4.**Visual Appeal and Engagement:**  Incorporating visually striking elements such as background images, captivating galleries, and interactive features aims to captivate user attention and enhance engagement with the platform.

5. **Service Showcase:**  The project seeks to showcase the company's diverse services, including accommodations, dining options, safety guides, and additional customizable services, ensuring users have access to a wide array of travel-related amenities.

6. **Brand Representation:**  The "About Us" section aims to establish the brand's identity by providing insights into the company's background, values, and establishment, fostering a sense of trust and familiarity with the users.

7. **Technology Integration:**  Utilizing HTML, CSS, and JavaScript alongside tools like Visual Studio and Chrome ensures the development of a technologically sound and responsive website that aligns with industry standards.

8. **Secure User Interactions:**  Implementing secure user registration and login functionalities is essential to safeguard user data and ensure a personalized and secure experience for all users.

9.**Deployment and Accessibility:**  Deploying the website on platforms like GitHub ensures accessibility, reliability, and ease of access for users worldwide, contributing to a seamless user experience.

10. **Continuous Improvement:**  Lastly, the project aims to create a scalable platform open to future enhancements and updates to adapt to evolving user needs and technological advancements in the travel industry.

In essence, these objectives collectively aim to create an immersive, informative, and user-centric platform that redefines the online travel experience, setting new standards in the industry.

**2.1 Checkpoint - 1**

The primary goal of Checkpoint One is to establish the fundamental structure and user interface elements of the website, specifically focusing on the creation of the welcome page with a navigational menu. This checkpoint aims to implement a visually appealing layout, incorporating brand identification, a clear navigation menu, and an engaging background image to signify the start of the user journey. Additionally, it seeks to introduce dynamic elements such as hover effects and timed text changes to enhance user interaction and interest. Ultimately, the objective is to establish a foundational structure that sets the tone for a user-friendly and visually captivating travel website interface, meeting the initial requirements outlined for the project's commencement.

**2.2 Checkpoint - 2**

Checkpoint Two aims to enhance the website's functionality and user interaction by implementing crucial sections for user engagement and service presentation. The primary goal is to integrate two critical sections: the company presentation section and the services and packages display.

1.   Company Presentation:   The objective is to introduce the brand/company through an image display and a functional booking form that enables users to specify travel details, select destinations, and successfully make reservations. The form's validation ensures a seamless booking experience, providing users with feedback on successful bookings.

2.   Package Gallery Implementation:   This checkpoint focuses on showcasing a visually appealing package gallery, allowing users to view nine packages divided into three rows, each row showcasing three packages in card format. These cards include destination images, descriptive headings, brief attraction descriptions, prices in USD, ratings, and booking options.

3.   Services Section Integration:   The aim is to introduce a section showcasing essential services offered by the company, including Affordable Hotels, Food & Drinks, Safety Guides, and additional customized services. This section requires the incorporation of at least three custom services, designed to enhance user engagement and provide comprehensive information.

This checkpoint's objective is to establish pivotal sections that enhance user experience, presenting company information, comprehensive package details, and essential services, thereby offering users a deeper insight into the company's offerings and initiating the process of seamless interaction and booking.

**2.3 Checkpoint - 3**

Checkpoint Three is centered around enriching the website's visual appeal, introducing vital sections that amplify user engagement and provide comprehensive insights into the company. The primary goal is to implement two crucial sections: the Gallery and the About Us sections, followed by the addition of a functional footer.

1.   Gallery Enhancement:   The objective is to curate a visually captivating Gallery section showcasing diverse photos and glimpses of the experiences offered by the company. The emphasis lies in designing this section using various visual elements like cards, sliders, or other convenient formats. Implementation of CSS transformations, such as the scale property on image hover, aims to enhance user interaction and engagement within this section.

2.   About Us Section:   This checkpoint aims to introduce the About Us segment, presenting the company's identity, establishment, and other relevant details. This section comprises two sections of equal width: one displaying an image related to the brand or company, and the other showcasing crucial company information. The content presented here intends to establish the brand's ethos, identity, and historical background, fostering trust and familiarity with the users.

3.   Footer Inclusion:   The final objective of this checkpoint is to add a functional footer at the bottom of the website. This footer includes essential elements like the brand name, social media icons (Instagram, Facebook, etc., with inactive links), and a copyright symbol alongside an appropriate message, asserting the company's rights.

This checkpoint aims to finalize the website's essential sections, enhancing its visual appeal through engaging galleries, providing insights into the company's background, and ensuring a comprehensive yet succinct footer, thereby enriching the overall user experience and establishing a stronger brand presence.

**2.4 Checkpoint - 4**

Checkpoint Four is geared towards implementing crucial functionalities that enhance user interaction, ensuring secure and convenient access to the website's features, and finalizing the deployment process.

1.   User Authentication Implementation:   The primary objective is to enable user registration and login functionalities. Upon clicking the Register Button, a modal or a new page (register.html) will appear, featuring a form with fields for fullname, contact, date of birth, email id, password, and gender. Proper JavaScript validation will be incorporated to ensure data accuracy, and CSS design will be applied for an aesthetically pleasing and user-friendly form interface. Additionally, a link to redirect users to the login file will be displayed below the register button.

2.   Login Functionality Development:   Clicking on the login button from the homepage will trigger the appearance of a modal or a new page (login.html) for user login. The login form will include fields for email id and password, alongside a login button. Similar to the registration form, a link to redirect users to the registration page will be visible below the login button, ensuring seamless navigation between registration and login processes.

3.   Deployment:   The final objective of this checkpoint is to deploy the website on freely accessible platforms like GitHub or Netlify. This crucial step ensures the website's availability and accessibility to users worldwide, facilitating ease of use and interaction.

This checkpoint aims to integrate essential user authentication features, fostering a secure and personalized user experience. Furthermore, the deployment of the website on reliable platforms ensures its accessibility, marking the final step before the submission of the Project Report, adhering to the outlined template for reporting purposes.

**3. Project Description**

Embark on a seamless journey with our sophisticated travel website, thoughtfully designed to meet the ever-evolving demands of the industry. Our platform places a premium on user-friendly navigation, starting with an inviting homepage that features a strategically organized menu for easy access to key sections such as Home, Book, Packages, Services, Gallery, and About.

Delve into exploration through the Packages menu's dropdown feature, offering a plethora of destination options. The visual allure is heightened by a captivating background image, extending a warm welcome and inviting users to explore diverse destinations. The booking section empowers users to effortlessly select destinations, specify travel details, and seamlessly make reservations.

Our Package Gallery showcases enticing travel packages in a card format, providing comprehensive details such as destination images, descriptions, USD prices, ratings, and convenient booking options. The Services section emphasizes amenities vital to travel, encompassing accommodation, dining, and safety. Immerse yourself in the Gallery section, where visual transformations upon hover offer glimpses of unique experiences through captivating photos.

The "About Us" segment shares the essence of our brand—its background, establishment, ethos, and identity. Crucially, the website ensures a secure and personalized experience through user registration and login functionalities. Developed using HTML, CSS, and JavaScript, and crafted with tools like Visual Studio and Chrome, our technology stack adheres to industry standards, ensuring robust and efficient web development. Deployed on GitHub, our platform guarantees accessibility and reliability. This project is a testament to our commitment to streamline travel planning, offer comprehensive services, and provide an immersive user experience in the dynamic realm of online travel platforms.

**3.1 Checkpoint - 1**

Checkpoint one involves creating a front-end website with a welcoming index.html page featuring:

1.  Navigation Menu:  Includes a brand name/logo, six right-aligned menus (Home, Book, Packages, Services, Gallery, About), with the Packages menu containing a dropdown showcasing four options (United States, India, France, Germany) upon hover.

2.  Login & Register Buttons:  Placed to the right of the navigation menu for user authentication.

3.  Bottom Image:  A background image with high clarity, spanning 100% width and 90vh in height (slightly less than 100% height).

4.  Content on Background Image:

   - Top line displaying the text "Welcome to BrandName" (insert the specific brand name).

   - Second line showcasing a larger heading featuring rotating country names like "Visit Placename" (rotates every 0.2 seconds).

   - Third line presenting a centered "Book Now" button.

The user experience will feature a visually appealing interface with clear navigation, a visually engaging background image, and rotating country names to attract attention. The design ensures ease of access to crucial sections like booking, services, and information about the brand while prioritizing user interaction through intuitive menus and visually stimulating elements.

**3.2 Checkpoint - 2**

 Checkpoint two entails developing a front-end website with the following features:

1.   50% Width Sections:

   - Left 50%: Display an image related to the brand or company.

   - Right 50%: Incorporate a form comprising fields for destination selection, number of people, start and end dates (validated for future and proper date order), a description (with character limits), and a "Book Now" button triggering a success alert upon completion.

 2.   Package Gallery Section:

   - Showcase three rows of cards, each displaying nine packages with images of places, place names, short descriptions, prices in USD, ratings, and a "Book Now" option.

  3.   Services Section:

   - Feature six service options, including Affordable Hotel, Food & Drinks, Safety Guide, and three additional custom services, creatively presented using bullets, cards, sliders, or other design elements for enhanced user engagement.

The user experience emphasizes an intuitive layout, allowing users to view destination details, book packages seamlessly, and explore the various services offered by the company in a visually appealing manner.

**3.3 Checkpoint – 3**

 Checkpoint three involves enhancing the front-end website with these key elements:

1.   Gallery Section:

   - Display a customizable gallery featuring various photos showcasing the company's experiences, designed using cards, sliders, etc., with CSS properties such as transform (scale) applied for hover effects on images.

2.   About Us Section:

   - Create a layout with two 50% width sections: one featuring an image related to the brand or company, and the other displaying company information, establishment details, and other relevant information as preferred.

3.   Footer:

   - Design a footer containing at minimum the brand name, social media icons (e.g., Instagram, Facebook), potentially inactive, and include a copyright symbol with an appropriate message stating "All Rights are Reserved."

The user experience aims to provide an engaging gallery display, comprehensive company information, and easy access to essential details through a well-designed footer, ensuring a visually appealing and informative conclusion to the website.

**3.4 Checkpoint - 4**

Checkpoint four involves implementing the following functionalities for the front-end website

1.   Registration Modal or Page:   - Upon clicking the Register Button, display a modal (if using Bootstrap) or redirect to a new register.html page. The form should include fields for fullname, contact, date of birth, email, password, gender, a register button, and a link to redirect to the login page. Ensure proper JavaScript validation and aesthetically pleasing CSS design.

2.   Login Modal or Page:  Clicking the Login Button should trigger a modal (if using Bootstrap) or open a new login.html page. The form should comprise fields for email and password, a login button, and a link to redirect to the register page.

3.   Deployment:    - Deploy the website freely on platforms like GitHub or Netlify for accessibility.The user experience focuses on providing seamless registration and login processes with validated forms, whether through modals or dedicated HTML pages, and ensures the successful deployment of the website for wider access. Additionally, the project report submission should follow the provided template for completeness.

**4. Additional Features**

The project incorporates several supplementary features designed to elevate the user experience and enhance the website's functionality.

1.    Extra Animations and Graphics:    Extensive attention was given to the inclusion of enhanced animations and graphics throughout the website. These elements were strategically placed to provide a visually appealing interface, captivating users' attention, and fostering an engaging browsing experience. The purposeful use of animations and graphics adds a dynamic element to the website, elevating its aesthetic appeal.

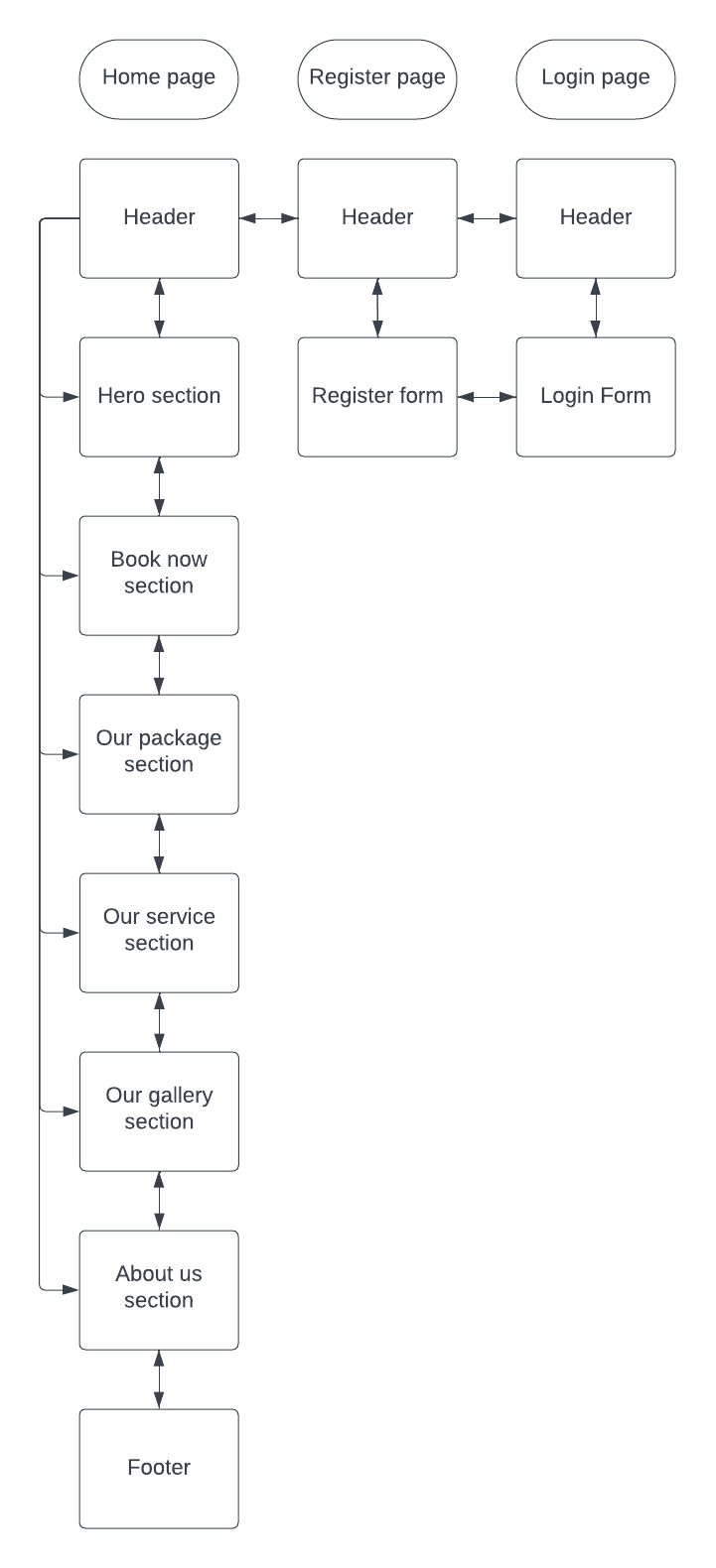
2.    Responsive DOM Elements:    The implementation of responsive DOM elements ensures seamless adaptability across various devices and screen sizes. By prioritizing responsiveness, the website offers users a consistent and optimized experience, regardless of the device used. This enhancement significantly improves accessibility and usability, accommodating a wide range of users.

3.    Dynamic Card and Gallery Section through JavaScript:    Leveraging the power of JavaScript, the cards and gallery section were dynamically designed. This dynamic nature allows for real-time updates and modifications, enabling interactive functionalities within these sections. Users can experience smooth transitions and interactive elements, contributing to a more engaging and immersive browsing experience.

4.    Comprehensive Form and Button Validation:    All forms and buttons undergo thorough validation processes, ensuring accuracy and data integrity. With proper validation techniques implemented using JavaScript, users receive prompt feedback on their input, significantly reducing the chances of errors or incomplete submissions. This meticulous validation ensures a smooth and error-free interaction, enhancing the overall usability of the website.

These additional functionalities were meticulously integrated to complement the core features, aiming to elevate user engagement, improve usability, and offer an immersive and error-free browsing experience. The inclusion of these features aligns with the project's success criteria by enhancing user satisfaction and ensuring a highly functional and aesthetically pleasing website interface.

**5. Flowchart**

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**6. Coding**

1. Index.html

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <link rel="icon" type="image/x-icon" href="./assets/img/logo.png" />

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

    <title>TravelBuddy</title>

  </head>

  <body>

    <header>

      <nav class="top-menu">

        <div class="brand">

          <img src="./assets/img/logo.png" alt="Brand Logo" />

          <span>TravelBuddy</span>

        </div>

        <ul class="navigation">

          <li><a href="#">Home</a></li>

          <li><a href="#book-now">Book</a></li>

          <li class="dropdown">

            <a href="#packages-section">Packages</a>

            <ul class="dropdown-content">

              <li><a href="#packages-section">Tokyo</a></li>

              <li><a href="#packages-section">India</a></li>

              <li><a href="#packages-section">Paris</a></li>

              <li><a href="#packages-section">Dubai</a></li>

              <li><a href="#packages-section">More</a></li>

            </ul>

          </li>

          <li><a href="#services-section">Services</a></li>

          <li><a href="#gallery">Gallery</a></li>

          <li><a href="#about-us">About</a></li>

        </ul>

        <div class="user-menu">

          <button id="loginBtn" onclick="navigateToNextPage('login');">

            Login

          </button>

          <button id="registerBtn" onclick="navigateToNextPage('register');">

            Register

          </button>

        </div>

      </nav>

    </header>

    <section class="welcome-section">

      <img src="./assets/img/image.jpg" alt="Background Image" />

      <div class="welcome-content">

        <h1>Welcome to TravelBuddy</h1>

        <h2 id="placeName">Visit Placename</h2>

        <button id="bookNowBtn">Book Now</button>

      </div>

    </section>

    <div class="row" id="book-now">

      <div class="half-width">

        <img src="./assets/img/section\_two.jpg" alt="Brand Image" />

      </div>

      <div class="half-width">

        <form id="bookingForm">

          <h2>Want to Plan your vacation?</h2>

          <p>

            Fill the form below and let us get back to you with our amazing 100+

            packages.

          </p>

          <div class="form-group">

            <label for="whereTo" class="label">Where to:</label>

            <select id="whereTo" name="whereTo" class="input">

              <option value="paris">Paris</option>

              <option value="newYork">New York</option>

              <option value="tokyo">Tokyo</option>

              <option value="Japan">Japan</option>

              <option value="Singapore">Singapore</option>

              <option value="Usa">USA</option>

              <!-- Add more options as needed -->

            </select>

          </div>

          <div class="form-group">

            <label for="numberOfPersons" class="label">How Many Persons:</label>

            <input

              type="number"

              id="numberOfPersons"

              name="numberOfPersons"

              min="1"

              class="input"

              placeholder="Enter number of persons"

            />

          </div>

          <div class="form-group">

            <label for="startDate" class="label">Start Date:</label>

            <input

              type="date"

              id="startDate"

              name="startDate"

              min="2023-01-01"

              class="input"

              placeholder="Select start date"

            />

          </div>

          <div class="form-group">

            <label for="endDate" class="label">End Date:</label>

            <input

              type="date"

              id="endDate"

              name="endDate"

              min="2023-01-01"

              class="input"

              placeholder="Select end date"

            />

          </div>

          <div class="form-group">

            <label for="description" class="label">Description:</label>

            <textarea

              id="description"

              name="description"

              minlength="50"

              maxlength="500"

              class="input"

              placeholder="Enter a description"

            ></textarea>

          </div>

          <button type="button" onclick="bookNow()" class="submit-button">

            Book Now

          </button>

        </form>

      </div>

    </div>

    <!-- Section packages -->

    <h2

      id="service\_section"

      style="font-size: 36px; margin-top: 30px; text-align: center"

    >

      <u>Our Packages</u>

    </h2>

    <div class="package-section" id="packages-section">

      <!-- Add packages dynamically using JavaScript -->

    </div>

    <!-- Section services -->

    <h2

      id="service\_section"

      style="font-size: 36px; margin-top: 30px; text-align: center"

    >

      <u>Our Services</u>

    </h2>

    <div class="services-section" id="services-section">

      <!-- Add services dynamically using JavaScript -->

    </div>

    <hr />

    <!-- Gallery Section -->

    <div class="gallery-section" id="gallery">

      <h2

        id="service\_section"

        style="font-size: 36px; margin-top: 30px; text-align: center"

      >

        <u>Our Gallery</u>

      </h2>

      <div class="gallery">

        <img

          src="./assets/img/about1.jpg"

          alt="Image 1"

          class="gallery-image"

        />

        <img

          src="./assets/img/about2.jpg"

          alt="Image 2"

          class="gallery-image"

        />

        <img

          src="./assets/img/about3.jpg"

          alt="Image 1"

          class="gallery-image"

        />

        <img

          src="./assets/img/about4.jpg"

          alt="Image 2"

          class="gallery-image"

        />

        <img

          src="./assets/img/about5.jpg"

          alt="Image 1"

          class="gallery-image"

        />

        <img

          src="./assets/img/about6.jpg"

          alt="Image 2"

          class="gallery-image"

        />

        <img

          src="./assets/img/about7.jpg"

          alt="Image 1"

          class="gallery-image"

        />

        <img

          src="./assets/img/about8.jpg"

          alt="Image 2"

          class="gallery-image"

        />

        <!-- Add more images as needed -->

      </div>

    </div>

    <!-- About Us Section -->

    <div class="about-section" id="about-us">

      <div class="row">

        <div class="about-us-image">

          <img src="./assets/img/logo.png" alt="travel buddy" />

        </div>

        <div class="half-width">

          <div class="company-info">

            <!-- Company information, establishment, details -->

            <h2>About Us</h2>

            <p>

              Welcome to Travel Buddy, your ultimate destination for memorable

              travel experiences! Established in 2010 by our passionate founder,

              Shiju Shaji, Travel Buddy was born out of a deep love for

              exploration and the desire to help people discover the world's

              wonders. <br /><br />

              At Travel Buddy, we believe that every journey is an opportunity

              for personal growth, learning, and creating lifelong memories.

              Whether you seek breathtaking adventures, cultural immersion, or

              serene getaways, our team is dedicated to curating tailor-made

              travel experiences that exceed your expectations.

              <br /><br />

              <b>Founder's Quote :</b>

              <i>

                "Embark on a journey that transcends destinations; it enriches

                your soul and broadens your perspective." - Shiju Shaji</i

              >

              <br /><br />

              Our mission is to transform your travel aspirations into reality

              by offering exceptional services, personalized itineraries, and

              expert guidance every step of the way. With a commitment to

              delivering unparalleled customer satisfaction, we strive to ensure

              that every trip you take with Travel Buddy becomes an

              unforgettable chapter in your life story.

            </p>

            <!-- Add more details as needed -->

          </div>

        </div>

      </div>

    </div>

    <!-- Footer Section -->

    <footer>

      <div class="footer-content">

        <div class="brand">

          <img

            src="./assets/img/logo.png"

            alt="Brand Logo"

            style="height: 40px; width: 40px"

          />

          <p>Travel Buddy</p>

        </div>

        <div>

          <a href="#">Privacy Policy</a> <br />

          <a href="#">Terms and conditions</a>

        </div>

        <div class="social-icons">

          <a href="#"

            ><img src="./assets/img/instagram.png" alt="Instagram"

          /></a>

          <a href="#"><img src="./assets/img/facebook.png" alt="Facebook" /></a>

          <a href="#"><img src="./assets/img/twitter.png" alt="Facebook" /></a>

        </div>

      </div>

      <div class="copyright">

        <p>&copy; 2023 Travel Buddy. All Rights Reserved.</p>

      </div>

    </footer>

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

  </body>

</html>

Style.css

body {

  margin: 0;

  padding: 0;

  font-family: Arial, sans-serif;

}

a {

  color: inherit;

  text-decoration: none;

}

header {

  background-color: #c6c2c9;

  color: black;

  padding: 10px 0;

}

.top-menu {

  display: flex;

  justify-content: space-between;

  align-items: center;

  margin: 0 auto;

}

.brand {

  display: flex;

  width: 40px;

  padding-left: 30px;

  align-items: center;

}

.brand img {

  width: 90px;

  height: 90px;

  margin-right: 10px;

}

.brand span {

  font-size: 24px;

}

.navigation {

  list-style: none;

  color: black;

  display: flex;

}

.navigation li {

  margin: 0 15px;

}

.dropdown {

  position: relative;

}

.dropdown-content {

  display: none;

  position: absolute;

  background-color: #333;

  list-style: none;

  height: 100px;

  padding-left: 0;

}

.navigation li:hover .dropdown-content {

  display: block;

  background-color: transparent;

  padding-top: 20px;

  width: 150px;

}

.user-menu {

  display: flex;

  align-items: center;

}

.user-menu button {

  margin: 0 10px;

  padding: 10px 10px;

  background-color: #726a6a;

  color: #fff;

  border: none;

  cursor: pointer;

  width: 80px;

  border-radius: 10%;

}

.user-menu button:hover {

  background-color: rgb(29, 43, 126);

}

.welcome-section img {

  width: 100%;

  height: 90vh;

  object-fit: cover;

}

.welcome-content {

  position: absolute;

  top: 50%;

  left: 50%;

  transform: translate(-50%, -50%);

  text-align: center;

  color: white;

}

.welcome-content h1 {

  font-size: 32px;

  margin-bottom: 10px;

}

.welcome-content h2 {

  font-size: 48px;

  margin-bottom: 20px;

}

#bookNowBtn {

  padding: 10px 20px;

  background-color: #ff5722;

  border: none;

  color: #fff;

  font-size: 18px;

  cursor: pointer;

}

/\* second checkpoint \*/

.row {

  display: flex;

  width: 100%;

  height: 570px;

}

.half-width {

  flex: 1;

  width: 50%;

  padding-right: 10px;

}

.half-width img {

  width: 100%;

  height: 90%;

  padding-top: 20px;

}

form {

  margin: 0 auto;

  padding: 20px;

  padding-right: 40px;

  font-family: Arial, sans-serif;

}

.form-group {

  margin-bottom: 20px;

}

.label {

  display: block;

  margin-bottom: 5px;

  font-weight: bold;

}

.input {

  width: 100%;

  padding: 8px;

  border: 1px solid #ccc;

  border-radius: 4px;

  transition: border-color 0.3s;

}

input[type="date"] {

  font-family: Arial, sans-serif;

}

.input:focus {

  outline: none;

  border-color: #4caf50;

}

.submit-button {

  background-color: #4caf50;

  color: white;

  padding: 10px 15px;

  border: none;

  border-radius: 4px;

  cursor: pointer;

  transition: background-color 0.3s;

}

.submit-button:hover {

  background-color: #45a049;

}

.package-section {

  display: flex;

  flex-wrap: wrap;

  justify-content: space-around;

  margin: 20px 0;

}

.package-section img {

  height: 250px;

  width: 100%;

}

.package-card {

  width: 300px;

  margin: 10px;

  padding: 15px;

  border: 1px solid #ccc;

  justify-content: center;

  text-align: center;

  padding: 10px;

  box-shadow: 10px 10px 5px #f7f0f0;

}

.package-card button {

  background-color: #4caf50;

  color: white;

  padding: 10px 15px;

  border: none;

  border-radius: 4px;

  cursor: pointer;

  transition: background-color 0.3s;

}

.services-section {

  text-align: center;

  padding: 20px;

  background-color: #ffff;

}

.service-card {

  display: inline-block;

  width: 30%;

  margin: 10px;

  padding: 15px;

  border: 1px solid #151010;

  background-image: linear-gradient(to right, rgba(144, 62, 198, 0), #ffe5ca);

}

.services-section :hover {

  transform: translateY(-10px);

}

/\* checkpoint 3 CSS \*/

/\* Gallery Section \*/

.gallery-section {

  padding: 20px 8%;

  background-image: url("../assets/img/gallery\_bg.jpg");

  background-color: rgba(255, 255, 255, 0.674);

  background-blend-mode: lighten;

}

.gallery {

  display: grid;

  justify-content: space-between;

  grid-template-columns: repeat(auto-fit, minmax(250px, 10fr));

}

.gallery-image {

  padding: 10px 2px;

  position: relative;

  cursor: pointer;

  overflow: hidden;

  width: 250px;

  height: 200px;

  object-fit: cover;

  transition: transform 0.3s ease-in-out;

  opacity: 0;

  transition: opacity 0.5s ease-in-out;

}

.gallery-image.show {

  opacity: 1;

}

.gallery-image:hover {

  transform: scale(1.1);

}

/\* About Us Section \*/

.about-section {

  background-color: #f5f5f5;

  padding: 40px 0;

}

.about-section .row {

  display: flex;

  width: 100%;

  height: 380px;

}

.about-us-image {

  display: flex;

  justify-content: center;

  align-items: center;

  width: 50%;

}

.about-us-image img {

  width: 0;

  transition: width 1.5s ease;

}

/\* Footer Section \*/

footer {

  background-color: #0a3454;

  color: #fff;

  text-align: center;

  padding: 20px 0;

}

.footer-content {

  display: flex;

  justify-content: space-between;

  align-items: center;

  max-width: 1200px;

  margin: 0 auto;

}

.brand {

  width: 160px;

}

.brand p {

  font-size: 18px;

}

.social-icons img {

  width: 30px;

  height: 30px;

  margin-left: 10px;

}

Script.js

const placeNames = ["Paris", "New York", "Tokyo", "Sydney", "London"];

let index = 0;

const placeNameElement = document.getElementById("placeName");

function changePlaceName() {

    placeNameElement.textContent = `Visit ${placeNames[index]}`;

    index = (index + 1) % placeNames.length;

}

setInterval(changePlaceName, 200);

document.getElementById("bookNowBtn").addEventListener("click", () => {

    // Handle the "Book Now" button click event

});

document.getElementById("loginBtn").addEventListener("click", () => {

    // Handle the "Login" button click event

});

document.getElementById("registerBtn").addEventListener("click", () => {

    // Handle the "Register" button click event

});

// second checkpoint

// Set the minimum date for the start date input to today

document.getElementById('startDate').min = new Date().toISOString().split('T')[0];

// Set the minimum date for the end date input to the selected start date

document.getElementById('startDate').addEventListener('change', function () {

    document.getElementById('endDate').min = this.value;

});

function bookNow() {

    // Get all input elements in the form

    var inputs = document.getElementById('bookingForm').getElementsByTagName('input');

    var selects = document.getElementById('bookingForm').getElementsByTagName('select');

    var textareas = document.getElementById('bookingForm').getElementsByTagName('textarea');

    // Check if all inputs are filled

    var isValid = true;

    for (var i = 0; i < inputs.length; i++) {

        if (inputs[i].type !== 'button' && inputs[i].value === '') {

            isValid = false;

            break;

        }

    }

    // Check if all selects are filled

    for (var i = 0; i < selects.length; i++) {

        if (selects[i].value === '') {

            isValid = false;

            break;

        }

    }

    // Check if all textareas are filled

    for (var i = 0; i < textareas.length; i++) {

        if (textareas[i].value === '') {

            isValid = false;

            break;

        }

    }

    // Display alert based on validation result

    if (isValid) {

        alert('Booking successful');

    } else {

        alert('Please fill in all fields');

    }

}

// Sample data for packages

var packages = [

    { image: "./assets/img/tokyo.jpg", name: "Tokyo", attractions: "Tokyo is the administrative, cultural, financial, commercial, and educational centre of Japan and the focus of an extensive urban complex that includes Kawasaki and Yokohama.", price: "$600", rating: "4.5" },

    { image: "./assets/img/india.jpg", name: "India", attractions: "India is part of the continent of Asia. Most of India forms a peninsula, which means it is surrounded by water on three sides. ", price: "$500", rating: "5.0" },

    { image: "./assets/img/paris.jpg", name: "Paris", attractions: "Paris has been one of the world's major centres of finance, diplomacy, commerce, culture, fashion, gastronomy and many areas.", price: "$700", rating: "4.5" },

    { image: "./assets/img/dubai.jpg", name: "Dubai", attractions: "Known as the “capital of UAE's economy,” Dubai is a key financial and trading hub, and one of the fastest growing cities in the world.", price: "$1200", rating: "8.0" },

    { image: "./assets/img/indonesia.jpg", name: "Indonesia", attractions: "Indonesia is the largest country in Southeast Asia, with a maximum dimension from east to west of about 3,200 miles (5,100 km) and an extent from north to south of 1,100 miles (1,800 km)", price: "$300", rating: "4.3" },

    { image: "./assets/img/germany.jpg", name: "Germany", attractions: "Germany's central and southern regions have forested hills and mountains cut through by the Danube, Main, and Rhine river valleys.", price: "$500", rating: "4.5" },

    { image: "./assets/img/zimbabwe.jpg", name: "Africa", attractions: "Africa, the second-largest continent, is bounded by the Mediterranean Sea, the Red Sea, the Indian Ocean, and the Atlantic Ocean.", price: "$200", rating: "3.5" },

    { image: "./assets/img/russia.jpg", name: "Russia", attractions: "Russia, the largest country in the world, occupies one-tenth of all the land on Earth. It spans 11 time zones across two continents (Europe and Asia) and has coasts on three oceans (the Atlantic, Pacific, and Arctic).", price: "$3440", rating: "7.5" },

    { image: "./assets/img/spain.jpg", name: "Spain", attractions: "Although there is a national parliament, Spain is one of the most decentralized democracies in Europe. Each of its 17 regions manages its own schools, hospitals, and other public services.", price: "$500", rating: "4.5" },

];

// Sample data for services

var services = [

    { name: "Affordable Hotel", description: "Comfortable stays at budget-friendly prices" },

    { name: "Food & Drinks", description: "Delicious local and international cuisines" },

    { name: "Safety Guide", description: "Expert guides ensuring a safe and enjoyable experience" },

    { name: "Transport", description: "We will arrange all transport for your travel where ever you want" },

    { name: "Travek insurance", description: "No need to worry about your travel problems" },

    { name: "No cancellation charges", description: "Cancel anytime and we refund you" },

];

// Dynamically populate packages and services

document.addEventListener("DOMContentLoaded", function () {

    var packageSection = document.querySelector(".package-section");

    packages.forEach(function (package) {

        var card = createPackageCard(package);

        packageSection.appendChild(card);

    });

    var servicesSection = document.querySelector(".services-section");

    services.forEach(function (service) {

        var card = createServiceCard(service);

        servicesSection.appendChild(card);

    });

});

// function to map the packages card to dom element

function createPackageCard(package) {

    var card = document.createElement("div");

    card.classList.add("package-card");

    var image = document.createElement("img");

    image.src = package.image;

    image.alt = package.name;

    var heading = document.createElement("h3");

    heading.textContent = package.name;

    var paragraph = document.createElement("p");

    paragraph.textContent = package.attractions;

    var price = document.createElement("p");

    price.textContent = "Price: " + package.price;

    var rating = document.createElement("p");

    rating.textContent = "Rating: " + package.rating;

    var bookNowBtn = document.createElement("button");

    bookNowBtn.textContent = "Book Now";

    card.appendChild(image);

    card.appendChild(heading);

    card.appendChild(paragraph);

    card.appendChild(price);

    card.appendChild(rating);

    card.appendChild(bookNowBtn);

    return card;

}

// function to map service card to dom element

function createServiceCard(service) {

    var card = document.createElement("div");

    card.classList.add("service-card");

    var heading = document.createElement("h3");

    heading.textContent = service.name;

    var paragraph = document.createElement("p");

    paragraph.textContent = service.description;

    card.appendChild(heading);

    card.appendChild(paragraph);

    return card;

}

// checkpoint 3 js starts here

// Function to check if an element is in the viewport

function isInViewport(element) {

    const rect = element.getBoundingClientRect();

    return (

        rect.top >= 0 &&

        rect.left >= 0 &&

        rect.bottom <= (window.innerHeight || document.documentElement.clientHeight) &&

        rect.right <= (window.innerWidth || document.documentElement.clientWidth)

    );

}

// Function to add the 'show' class when the image is in the viewport

function showImage() {

    const galleryImages = document.querySelectorAll('.gallery-image');

    galleryImages.forEach((image, index) => {

        if (isInViewport(image)) {

            setTimeout(() => {

                image.style.transition = `opacity 0.5s ease-in-out`;

                image.style.opacity = 1;

            }, index \* 200); // Adjust the delay timing as needed

        }

    });

}

function showAboutUsImage() {

    const images = document.getElementById('about-us');

    if (isInViewport(images)) {

        setTimeout(() => {

            const image = images.querySelector('img');

            image.style.width = '50%'; // Set width to 100% to scale up gradually

        }, index \* 200);

    }

}

// Event listener for scrolling

window.addEventListener('scroll', showImage);

window.addEventListener('scroll', showAboutUsImage);

// Initial check on page load

showImage();

showAboutUsImage();

function navigateToNextPage(pageName) {

    let destinationPage;

    // Determine the destination page based on the parameter

    if (pageName === 'register') {

        destinationPage = 'register.html';

    } else if (pageName === 'login') {

        destinationPage = 'login.html';

    } else if (pageName === 'home') {

        destinationPage = 'home.html';

    } else {

        // Default to a specific page when an unknown parameter is passed

        destinationPage = 'default.html';

    }

    // Navigate to the determined page

    window.location.href = destinationPage;

Register.html

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <link rel="stylesheet" href="./css/register.css" />

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

    <title>Register</title>

  </head>

  <body>

    <!-- header section -->

    <header>

      <nav class="top-menu">

        <div class="brand">

          <img src="./assets/img/logo.png" alt="Brand Logo" />

          <span>TravelBuddy</span>

        </div>

        <ul class="navigation">

          <li><a href="index.html">Home</a></li>

          <li><a href="#book-now">Book</a></li>

          <li class="dropdown">

            <a href="#packages-section">Packages</a>

            <ul class="dropdown-content">

              <li><a href="#packages-section">Tokyo</a></li>

              <li><a href="#packages-section">India</a></li>

              <li><a href="#packages-section">Paris</a></li>

              <li><a href="#packages-section">Dubai</a></li>

              <li><a href="#packages-section">More</a></li>

            </ul>

          </li>

          <li><a href="#services-section">Services</a></li>

          <li><a href="#gallery">Gallery</a></li>

          <li><a href="#about-us">About</a></li>

        </ul>

        <div class="user-menu">

          <button id="loginBtn" onclick="navigateToNextPage('login');">

            Login

          </button>

          <button id="registerBtn" onclick="navigateToNextPage('register');">

            Register

          </button>

        </div>

      </nav>

    </header>

    <div class="container">

      <div class="brand-register">

        <img src="./assets/img/logo.png" alt="Brand Logo" />

      </div>

      <h2>Register at Travel Buddy</h2>

      <form id="registerForm" onsubmit="return validateForm()">

        <input type="text" id="fullname" placeholder="Full Name" required />

        <input type="text" id="contact" placeholder="Contact Num" required />

        <input type="date" id="dob" required />

        <input type="email" id="email" placeholder="Email" required />

        <input type="password" id="password" placeholder="Password" required />

        <label for="gender">Gender:</label>

        <select id="gender" required>

          <option value="male">Male</option>

          <option value="female">Female</option>

          <option value="other">Other</option>

        </select>

        <button type="submit">Register</button>

      </form>

      <p>

        Already have an account? <a href="login.html"><b>Login here</b></a>

      </p>

    </div>

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

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

  </body>

</html>

Register.css

/\* Add your CSS styling for the registration form \*/

/\* Example styles \*/

body {

  background-color: #c6c2c9;

}

.container {

  width: 80%;

  max-width: 400px;

  margin: 10px auto;

  padding: 20px;

  border: 1px solid #ccc;

  border-radius: 5px;

  text-align: center;

  background-color: white;

}

.brand-register img {

  width: 80px;

  height: 90px;

  align-items: center;

}

h2 {

  margin-bottom: 20px;

}

input,

select,

button {

  display: block;

  width: 100%;

  margin-bottom: 10px;

  padding: 8px;

}

#registerForm {

  padding: 8px;

  border: 1px solid #ccc;

  border-radius: 4px;

  transition: border-color 0.3s;

}

button {

  background-color: #007bff;

  color: #fff;

  border: none;

  cursor: pointer;

}

input[type="date"] {

  font-family: Arial, sans-serif;

}

button:hover {

  background-color: #0056b3;

}

p {

  margin-top: 20px;

}

Register.js

function validateForm() {

    // Add your form validation logic here

    // Example validation:

    var fullname = document.getElementById('fullname').value;

    var contact = document.getElementById('contact').value;

    var dob = document.getElementById('dob').value;

    var email = document.getElementById('email').value;

    var password = document.getElementById('password').value;

    var gender = document.getElementById('gender').value;

    if (fullname === '' || contact === '' || dob === '' || email === '' || password === '' || gender === '') {

        alert('Please fill in all fields.');

        return false;

    }

    // Additional validation can be added as per requirements

    return true;

}

Login.html

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <link rel="stylesheet" href="./css/register.css" />

    <link rel="icon" type="image/x-icon" href="./assets/img/logo.png" />

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

    <title>Document</title>

  </head>

  <body>

    <!-- header section -->

    <header>

      <nav class="top-menu">

        <div class="brand">

          <img src="./assets/img/logo.png" alt="Brand Logo" />

          <span>TravelBuddy</span>

        </div>

        <ul class="navigation">

          <li><a href="index.html">Home</a></li>

          <li><a href="#book-now">Book</a></li>

          <li class="dropdown">

            <a href="#packages-section">Packages</a>

            <ul class="dropdown-content">

              <li><a href="#packages-section">Tokyo</a></li>

              <li><a href="#packages-section">India</a></li>

              <li><a href="#packages-section">Paris</a></li>

              <li><a href="#packages-section">Dubai</a></li>

              <li><a href="#packages-section">More</a></li>

            </ul>

          </li>

          <li><a href="#services-section">Services</a></li>

          <li><a href="#gallery">Gallery</a></li>

          <li><a href="#about-us">About</a></li>

        </ul>

        <div class="user-menu">

          <button id="loginBtn" onclick="navigateToNextPage('login');">

            Login

          </button>

          <button id="registerBtn" onclick="navigateToNextPage('register');">

            Register

          </button>

        </div>

      </nav>

    </header>

    <div class="container">

      <div class="brand-register">

        <img src="./assets/img/logo.png" alt="Brand Logo" />

      </div>

      <h2>Login To Travel Buddy</h2>

      <form id="registerForm" onsubmit="return validateForm()">

        <input type="email" id="emaild" placeholder="Your Email" required />

        <input

          type="password"

          id="password"

          placeholder="Enter your password"

          required

        />

        <button type="submit">Login</button>

      </form>

      <p>

        New to Travel Buddy? <a href="register.html"><b>Register here</b></a>

      </p>

    </div>

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

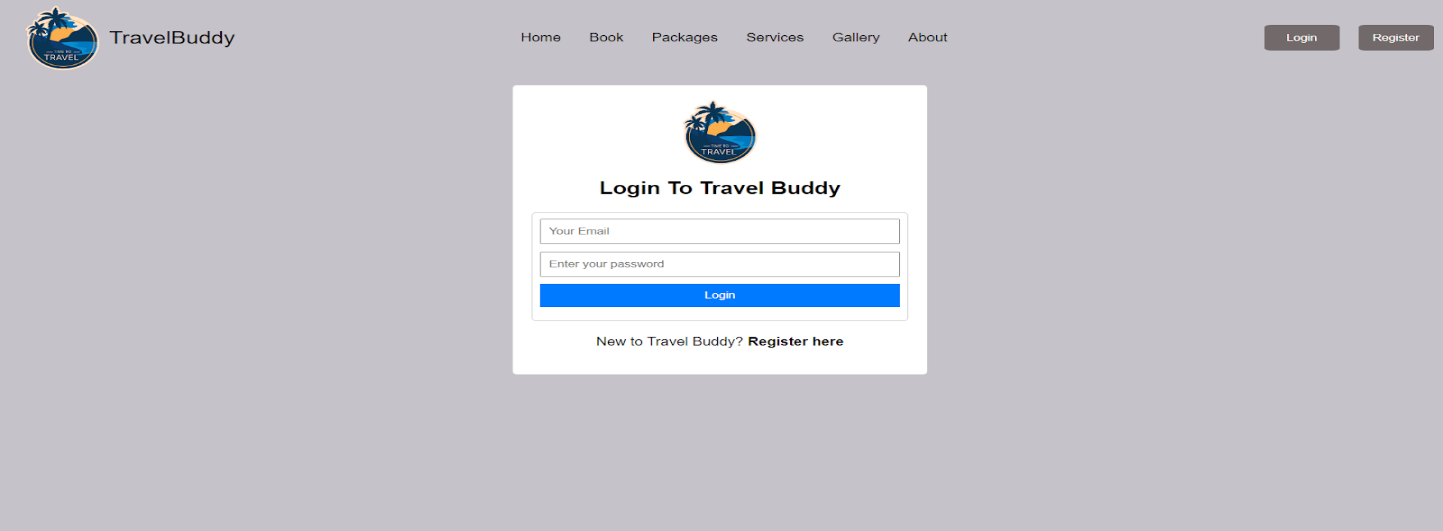
    <script src="./js/script.js"></script>

  </body>

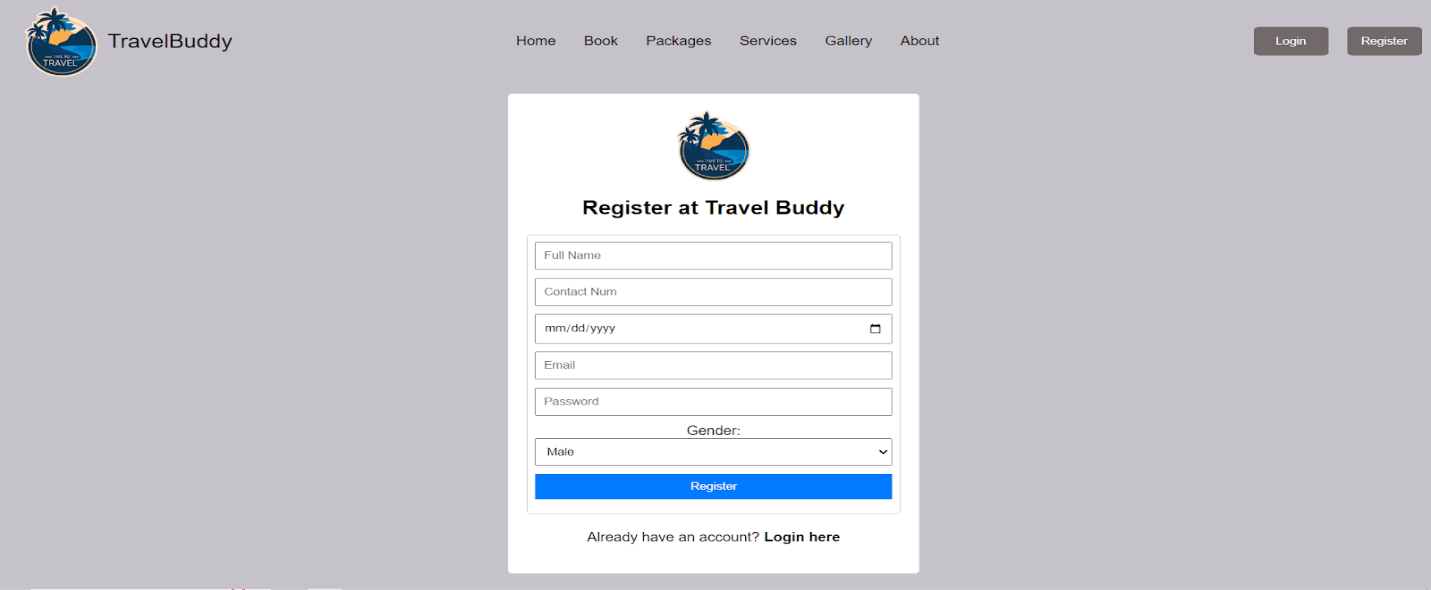
</html>

**7. Output**

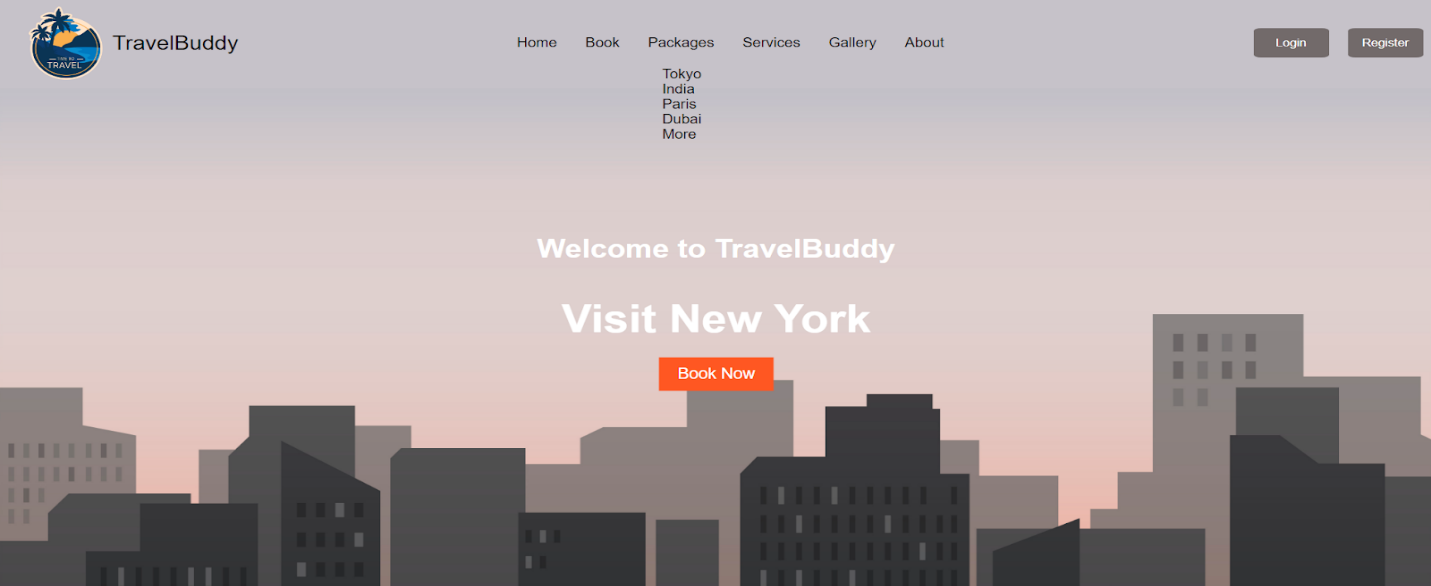
Login Page



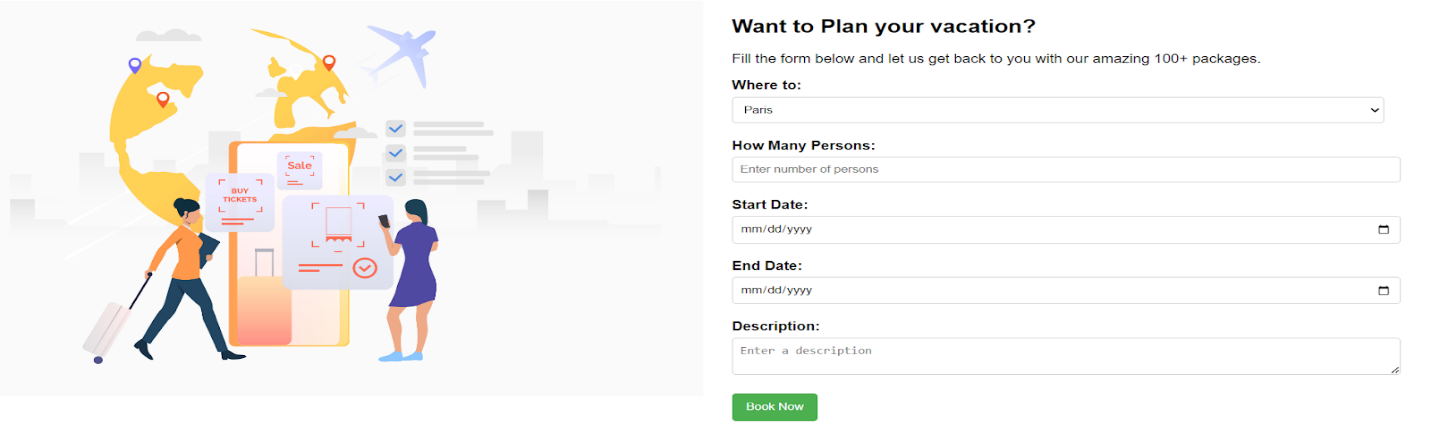
Register Page



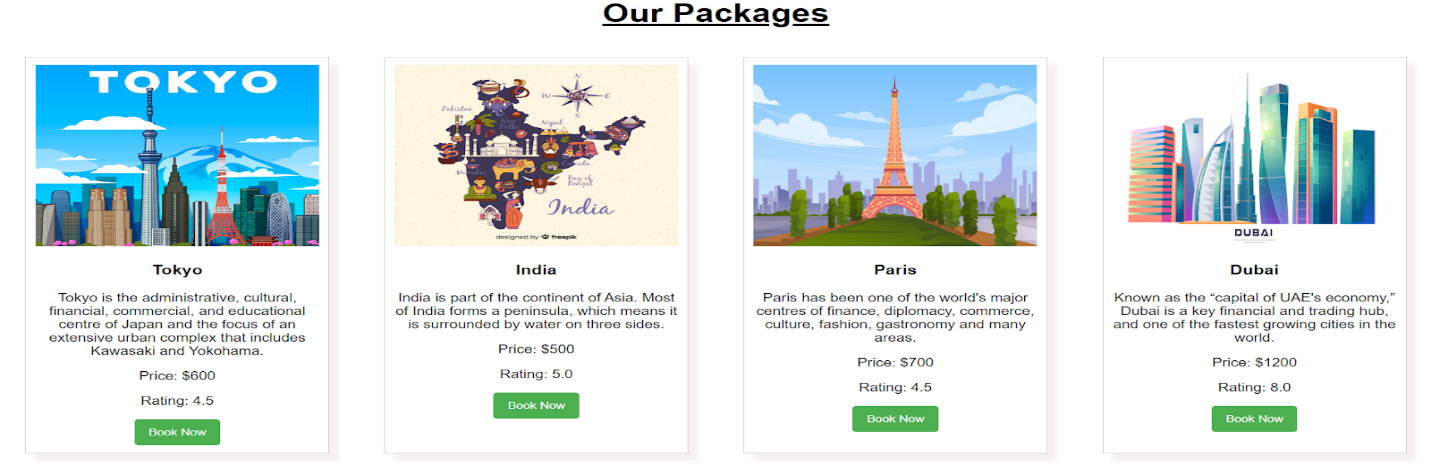
Home Page

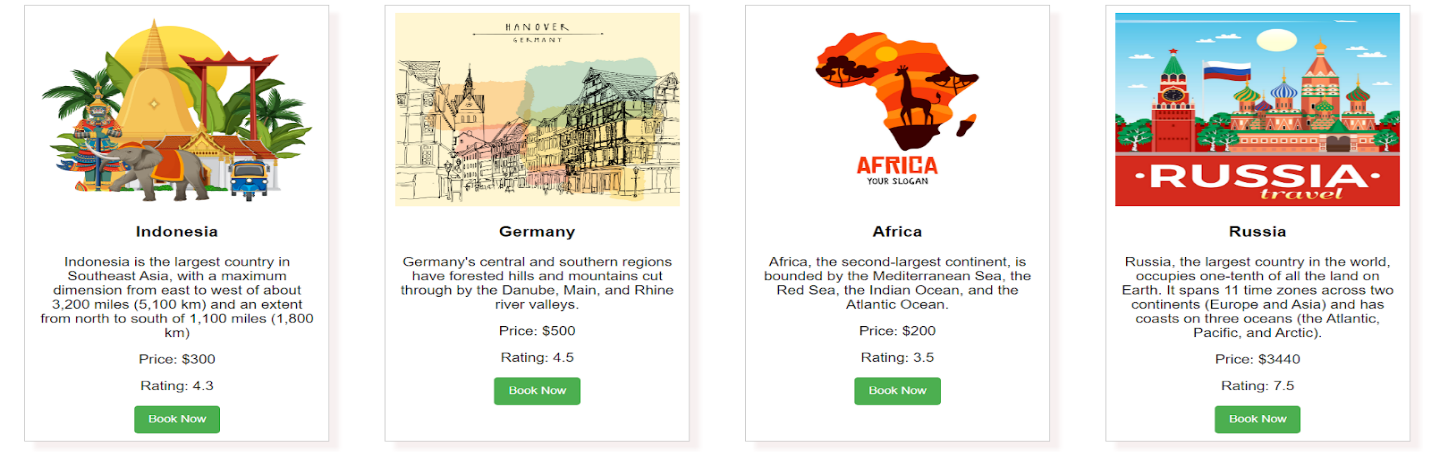


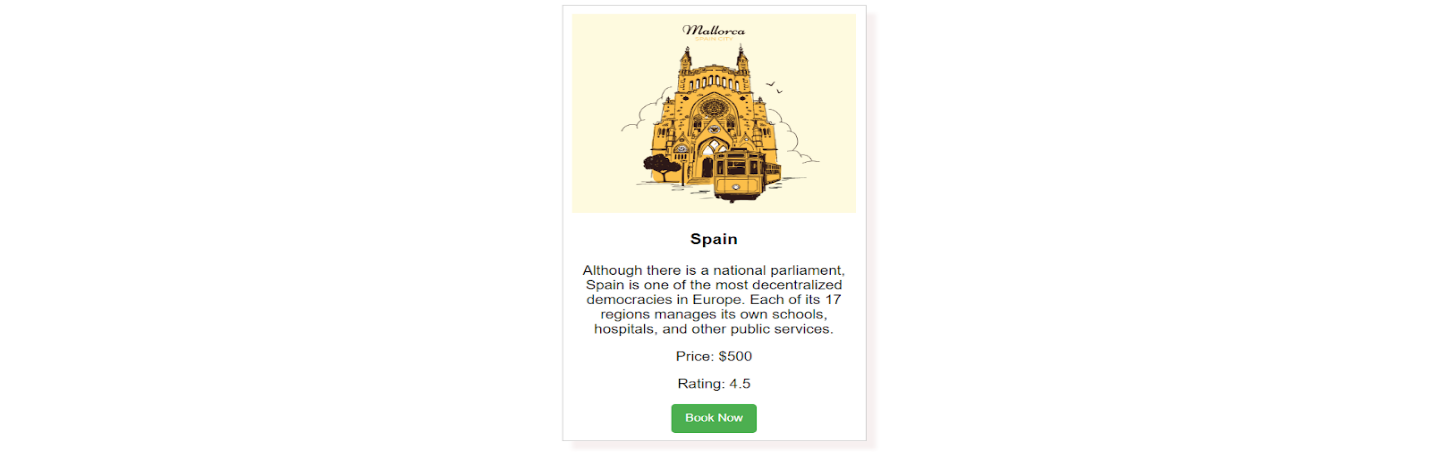
Book now section

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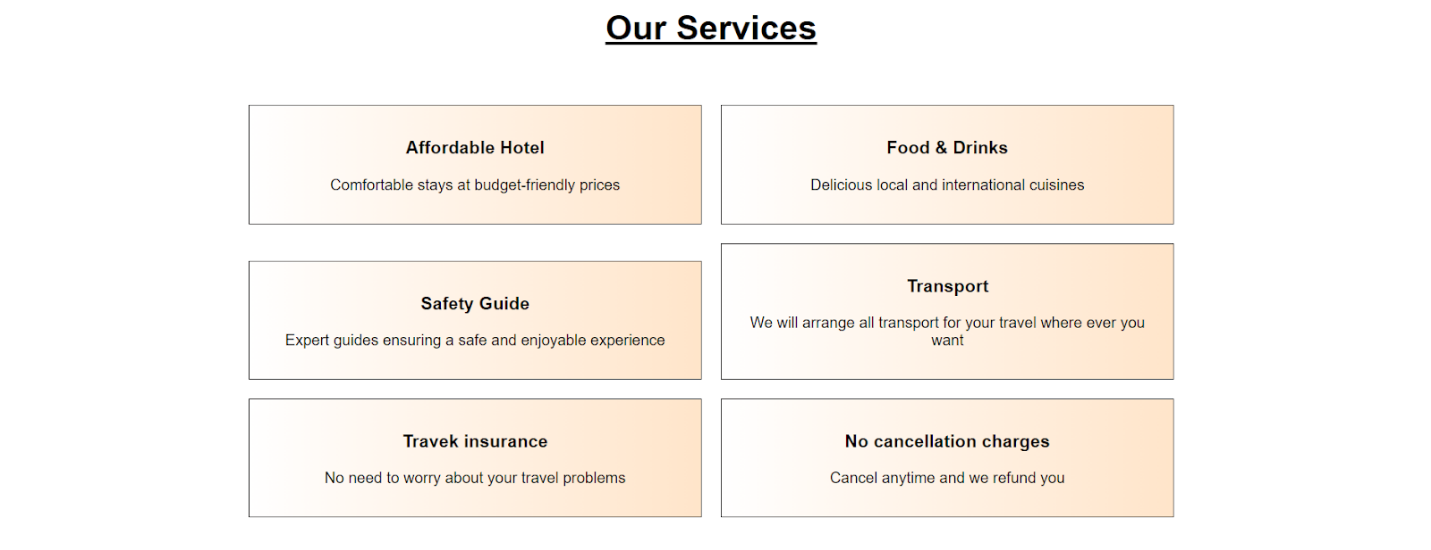
Package Section

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****

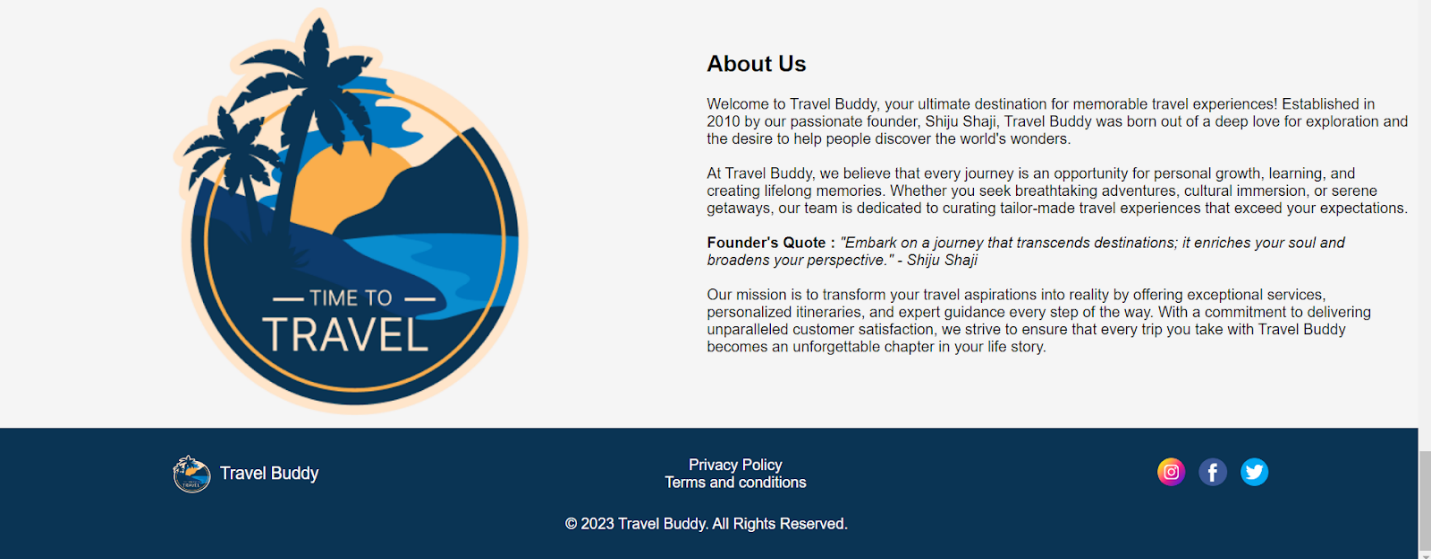
Service Section

****

Gallery Section

****

About us Section

****

**8. Validation**

Validation confirms that the homepage design is inviting and visually engaging, captivating users upon entry. The user-friendly navigation menu is observed to facilitate effortless access to essential sections. Additionally, it ensures the seamless functionality of the dropdown feature in the Packages menu, offering a range of options for multiple destinations. Furthermore, validation confirms that the booking section allows users to select destinations, specify travel details, and complete reservations successfully.

Moreover, the Package Gallery is verified to effectively present travel packages in a card format, displaying destination images, descriptions, USD prices, ratings, and available booking options. Development tools such as Visual Studio and Chrome are effectively utilized for coding, debugging, and testing purposes. Lastly, validation confirms consistent website performance across various web browsers, including Chrome and Edge.

**9. Conclusion**

In conclusion, the development of the travel booking website has been a fulfilling and educational journey. This project aimed to create a user-friendly platform using HTML, CSS, and JavaScript to facilitate seamless travel planning and booking experiences. Through the course of development, several important insights and achievements have been realized.

Firstly, the integration of responsive design principles using CSS has ensured that the website is accessible and functional across various devices, providing users with a consistent and enjoyable browsing experience. The use of JavaScript has enabled dynamic features, enhancing user interaction and streamlining the booking process.

In reflection, this project not only honed technical skills in web development but also emphasized the importance of user experience and continuous improvement. As technology evolves, so does the potential for enhancing the functionality and features of the travel booking website. Future iterations may include additional features, improved security measures, and further optimization for performance.

In essence, the travel booking website project has been a valuable learning experience, combining technical expertise with a user-centric approach. As the digital landscape continues to evolve, the skills acquired during this project will undoubtedly serve as a solid foundation for future endeavors in web development.

**10.References**

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5. Free Pik : <https://www.freepik.com/>
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7. Live link : https://damn-right.github.io/travelbuddy/
8. Github : <https://damn-right.github.io/travelbuddy/index.html>