Travel Agency Web Development Project

A MINI PROJECT REPORT

Submitted by

D BHEEMESWARA CHOWDARI [RA2111042010020] SIDDHARTHA SHANKAR RAI [RA2111042010031] MSV KARTHIK [RA2111042010058]

for the course 18CSP361L – Mini Project-1

Under the guidance of

Dr. Mercy Theresa M

(Assistant Professor, Department of Data Science and Business Systems)

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE ENGINEERING AND BUSINESS SYSTEMS

of

FACULTY OF ENGINEERING AND TECHNOLOGY



S.R.M. Nagar, Kattankulathur, Chengalpattu District

NOVEMBER 2023



SRM INSTITUTE OF SCIENCE&TECHNOLOGY COLLEGE OF ENGINEERING & TECHNOLOGY S.R.M. NAGAR, KATTANKULATHUR – 603 203

BONAFIDE CERTIFICATE

Certified that this project report "Travel Agency Web Development Project" is bonafide of "MSV KARTHIK (RA2111042010058) the work **BHEEMESWARA CHOWDARI** (RA2111042010020) **SIDDHARTHA** SHANKAR RAI (RA2111042010031)" of III Year/V Sem B. Tech (CSBS) who carried out the mini project work under my supervision for the course 18CSP361L - Mini Project-I in SRM Institute of Science and Technology during the academic year 2023-2024(Odd Sem).

SIGNATURE Dr. Mercy Theresa M **Assistant Professor**

Data Science and Business Systems

SIGNATURE Dr. M Lakshmi

Head of Department Data Science and Business Systems

ACKNOWLEDGEMENT

We express our humble gratitude to Dr. C. Muthamizhchelvan, Vice Chancellor (I/C), SRM Institute of Science and Technology, for the facilities extended for the project work and his continued support.

We extend our sincere thanks to Dr. Revathi Venkataraman, Professor & Chairperson, School of Computing, SRM Institute of Science and Technology, for her invaluable support.

We wish to thank Dr. M. Lakshmi, Professor & Head, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for her valuable suggestions and encouragement throughout the period of the project work.

We are extremely grateful to our Academic Advisor Dr E. Sasikala, Professor, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for her great support at all the stages of project work.

We register our immeasurable thanks to our Faculty Advisors, Dr. Jeba Sonia, and Dr. Mercy Theresa M, Assistant Professor, Data Science and Business Systems, SRM Institute of Science and Technology, for leading and helping us to complete our course.

Our inexpressible respect and thanks to our guide Dr. Mercy Theresa M, Assistant Professor, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for providing us an opportunity to pursue our project under his mentorship. She provided the freedom and support to explore the research topics of our interest. His passion for solving real problems and making a difference in the world has always been inspiring.

We sincerely thank staff and students of the Data Science and Business Systems Department, SRM Institute of Science and Technology, for their help during my research.

Finally, we would like to thank my parents, our family members and our friends for their unconditional love, constant support, and encouragement.

Table Of Contents

| S.no | TITLE | Page.no |
|------|--------------------------|---------|
| 1. | Abstract | 5 |
| 2. | Introduction | 6-7 |
| 3. | HTML Structure | 8-11 |
| 4. | CSS Styling | 12-15 |
| 5. | JavaScript Interactivity | 16-17 |
| 6. | Output | 18-23 |
| 7. | Conclusion | 24 |
| 8. | References | 25 |

Abstract

The mini project report explores the development of a web-based travel agency using HTML, CSS, and JavaScript. The project aims to provide an interactive and userfriendly platform for travel enthusiasts to explore, plan, and book their dream vacations. The report details the design and implementation of the website, including features such as dynamic destination displays, intuitive user interfaces, and seamless booking processes. Through the utilization of front-end technologies, the project enhances the overall user experience, ensuring accessibility and responsiveness across various devices. The report concludes with insights into the challenges faced, lessons learned, and potential future enhancements to further elevate the functionality and visual appeal of the travel agency website. The use of asynchronous JavaScript enhances the website's responsiveness, allowing users to enjoy seamless interactions and instant feedback. The integration of multimedia elements, such as high-quality images and interactive maps, further enriches the user experience, providing a vivid preview of potential travel destinations. The user interface includes a feedback system, allowing users to rate and review destinations, fostering a sense of community and aiding others in their travel decisions. The website's design prioritizes mobile responsiveness, acknowledging the prevalence of mobile usage, and enhancing accessibility for users on smartphones and tablets.

INTRODUCTION

In the dynamic landscape of today's travel industry, where the internet has become the primary

tool for planning and booking travel, a robust online presence is no longer a luxury but an

indispensable necessity for any travel agency seeking to thrive and succeed. A well-designed

and user-friendly travel agency website serves as a virtual storefront, providing potential

customers with a comprehensive platform to explore, compare, and book travel arrangements,

including flights, hotels, and rental cars. It is a crucial tool that can significantly enhance the

agency's brand visibility, attract new customers, increase bookings, and ultimately boost

overall revenue.

HTML (HyperText Markup Language): The Structure Builder

HTML serves as the foundation, providing the structural framework for web pages. Through a

series of tags, HTML defines the essential elements of a webpage, including headings,

paragraphs, images, and links. It's the language that turns a blank canvas into a canvas of

content.

CSS (Cascading Style Sheets): The Stylist

CSS steps in to bring life and aesthetics to the structure crafted by HTML. With CSS, we define

colors, fonts, layouts, and overall visual presentation. It's the stylist that ensures your website

not only functions seamlessly but also looks visually stunning across devices

JavaScript: The Interactive Enabler

JavaScript adds the magic touch, making your website dynamic and interactive. With this

scripting language, we can create responsive elements, handle user interactions, and update

content in real-time. JavaScript transforms static web pages into immersive, user-friendly

experiences

This report delves into the development of a travel agency website using HTML, CSS, and

JavaScript, a combination of technologies that provides the foundation for creating a visually

appealing, interactive, and functional online presence.

Objectives

This project aims to achieve the following key objectives:

- Craft a user-friendly and visually appealing travel agency website using the power of HTML and CSS.
- Implement a comprehensive search functionality that empowers users to seamlessly find flights, hotels, and rental cars tailored to their specific needs.
- Enable users to effortlessly book travel arrangements directly through the website, eliminating the need for intermediaries and streamlining the booking process.
- Ensure that the website is responsive and accessible across a wide range of devices, from desktop computers to smartphones and tablets, providing a seamless user experience regardless of the platform.

Scope

• This project focuses on developing the core functionalities of a travel agency website, encompassing search capabilities, booking features, and a user-friendly interface. It will not delve into advanced features such as user authentication, payment processing, and social media integration, which may be explored in future iterations.

Expected Outcomes

The successful completion of this project will result in a fully functional travel agency website that empowers users to search for and book travel arrangements with ease. The website will be characterized by its

- User-friendliness: Intuitive navigation, clear instructions, and a consistent layout will guide users seamlessly through their search and booking journey.
- Visual appeal: A modern and aesthetically pleasing design will capture users' attention and create a positive first impression.
- Interactivity: Dynamic elements and responsive design will ensure that the website adapts to various screen sizes and provides an engaging user experience across devices.
- Accessibility: Adherence to web accessibility standards will ensure that the website is inclusive and accessible to users with disabilities.

HTML Structure:

The HTML structure is organized into logical sections:

Header:

The header contains the website logo, navigation menu, search functionality, and a dynamic login form.

Home Section:

The home section introduces the website with a captivating image and content.

Form Section:

The form section presents a visually appealing form for user input.

Packages Section:

Displaying a grid of packages, each with an image, title, and pricing information.

Services Section:

Highlighting various services with icons, titles, and descriptions.

Pricing Section:

Showcasing different pricing plans with details.

Review Section:

A slider featuring customer reviews with images, ratings, and comments.

Contact Section:

A contact form with appropriate input fields for user interaction.

Footer:

The footer includes essential information and links.

CSS Styling

The CSS file employs a modern and consistent styling approach.

Colour Scheme:

Utilizes a two-tone color scheme with variable definitions for easy customization.

Typography:

Employs the 'Poppins' font-family for a modern and clean appearance.

```
@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;600;700&display=swap');
```

```
font-family: 'Poppins', sans-serif;
margin: 0;
padding: 0;
box-sizing: border-box;
outline: none;
border: none;
text-decoration: none;
text-transform: capitalize;
transition: all .2s linear;
}
```

Header Styling:

Sticky header with a dynamic search bar, navigation, and login form.

```
.header{
   position: fixed;
   top: 0;
   left: 0;
   right: 0;
   background: var(--bg-color-1);
   box-shadow: var(--box-shadow);
   padding: 1.5rem 7%;
   z-index: 1000;
   display: flex;
   align-items: center;
   justify-content: space-between;
.header .logo{
   font-weight: bolder;
   font-size: 2.5rem;
   color: var(--text-color-1);
.header .logo i{
   color: var(--orange);
```

```
.header .search-form input{
    height: 100%;
    width: 100%;
    background: none;
    text-transform: none;
    font-size: 1.45rem;
    color: var(--text-color-1);
    padding: 1rem;
}
.header .search-form label{
    font-size: 2rem;
    margin-right: 1.5rem;
    color: var(--text-color-1);
    cursor: pointer;
}
.header .search-form label:hover{
    color: var(--orange);
}
```

```
.header .icon div{
   height: 4rem;
   width: 4rem;
   line-height: 4rem;
   font-size: 2rem;
   border-radius: .5rem;
   margin-left: .5rem;
   background-color: var(--bg-color-2);
   color: var(--text-color-1);
   text-align: center;
.header .icon div:hover{
   color: ■#fff;
   background: var(--orange);
#search-btn{
   display: none;
.header .navbar{
   position: absolute;
   top: 115%;
   right: 7%;
   background: var(--bg-color-1);
   border-radius: .5rem;
   box-shadow: var(--box-shadow);
   width: 25rem;
   transform: scale(0);
   transform-origin: top right;
```

```
.header .navbar a{
   display: block;
    margin: 1rem;
   padding: 1rem;
    font-size: 1.5rem;
    color: var(--text-color-1);
    border-radius: .5rem;
.header .navbar a:hover{
    color: var(--orange);
    background: var(--bg-color-2);
.header .login-form{
    position: absolute;
    top: 115%;
   right: 7%;
    background: var(--bg-color-1);
    border-radius: .5rem;
    box-shadow: var(--box-shadow);
   width: 25rem;
   padding: 2rem;
    transform: scale(0);
    transform-origin: top right;
.header .login-form.active{
    transform: scale(1);
.header .login-form .inputBox{
    margin-bottom: 1rem;
```

Button Styling:

Uniform styling for buttons with subtle hover effects.

Review Slider Styling:

A visually appealing design for the customer review slider.

```
review .review-slider .slide{
                                                .review .review-slider .slide h3{
   background: var(--bg-color-1);
                                                   font-size: 2.5rem;
   border-radius: .5rem;
                                                   color: var(--text-color-1);
   text-align: center;
   padding: 3rem;
                                               .review .review-slider .slide p{
                                                   font-size: 1.6rem;
.review .review-slider .slide img{
                                                   color: var(--text-color-2);
  height: 10rem;
                                                   line-height: 1.7rem;
  width: 10rem;
                                                   padding: 1rem 0;
  border-radius: 50%;
  object-fit: cover;
  margin-bottom: .5rem;
                                               .review .review-slider .slide .rating{
                                                   padding: 1rem 0;
                                                   padding-bottom: 1.5rem;
.review .review-slider .slide h3{
  font-size: 2.5rem;
   color: var(--text-color-1);
                                               .review .review-slider .slide .rating i{
                                                   font-size: 2rem;
                                                   color: var(--orange);
.review .review-slider .slide p{
   font-size: 1.6rem;
   color: var(--text-color-2);
  line-height: 1.7rem;
                                                .swiper-pagination-bullet-active{
                                                   background: var(--orange);
   padding: 1rem 0;
```

Responsive Design:

Adopts responsive design principles for optimal viewing across various devices.

```
@media (max-width:991px){
    html{
        font-size: 55%;
        }
        .header{
            padding: 1.5rem 2rem;
        }
        section{
            padding: 2rem;
        }
}

.contact form .inputBox input{
            width: 100%;
        }
}
```

```
@media (max-width:768px) {
    .header .navbar{
       right: 2rem;
    .header .login-form{
       right: 2rem;
   #search-btn{
       display: inline-block;
    .header .search-form{
       position: absolute;
       top: 115%;
       right: 2rem;
       background: var(--bg-color-1);
       border-radius: .5rem;
       width: 90%;
       box-shadow: var(--box-shadow);
       transform: scale(0);
       transform-origin: top right;
    .header .search-form.active{
       transform: scale(1);
```

JavaScript Interactivity

The JavaScript file enhances the user experience with several interactive features:

Navigation Toggle:

Toggles the visibility of the navigation menu on the menu button click.

```
let navbar = document.querySelector('.navbar');

document.querySelector('#menu-btn').onclick= () =>{
    navbar.classList.toggle('active');
    loginForm.classList.remove('active');
    searchForm.classList.remove('active');
};
```

Login Form Toggle:

Displays or hides the login form on the login button click.

```
let loginForm = document.querySelector('.login-form');

document.querySelector('#login-btn').onclick= () =>{
    loginForm.classList.toggle('active');
    navbar.classList.remove('active');
    searchForm.classList.remove('active');
};
```

Search Form Toggle:

Reveals or conceals the search form on the search button click.

```
let searchForm = document.querySelector('.search-form');

document.querySelector('#search-btn').onclick= () =>{
    searchForm.classList.toggle('active');
    navbar.classList.remove('active');
    loginForm.classList.remove('active');
};
```

Hide Elements on Scroll:

Ensures a clean interface by hiding navigation, login, and search elements during scrolling.

```
window.onscroll = () =>{
    navbar.classList.remove('active');
    loginForm.classList.remove('active');
    searchForm.classList.remove('active');
}
```

Toggle Light/Dark Theme:

Provides a dynamic theme switcher between light and dark modes.

```
let theme = document.querySelector('#color-mode');

theme.onclick = () =>{
    theme.classList.toggle('fa-sun');

    if(theme.classList.contains('fa-sun')){
        document.body.classList.add('active');
    }
    else
    {
        document.body.classList.remove('active');
    }
};
```

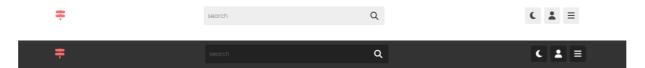
Swiper for Reviews:

Implements the Swiper library for an interactive and auto-playing customer review slider.

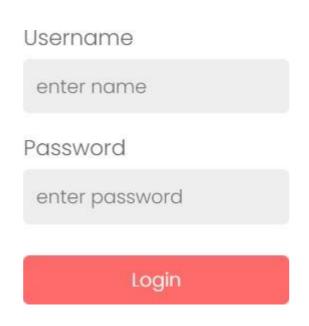
```
var swiper = new Swiper(".review-slider", {
    loop:true,
    spaceBetween: 30,
    centeredSlides: true,
    autoplay: {
        delay: 5500,
        disableOnInteraction: false,
    },
    pagination: {
        el: ".swiper-pagination",
    },
});
```

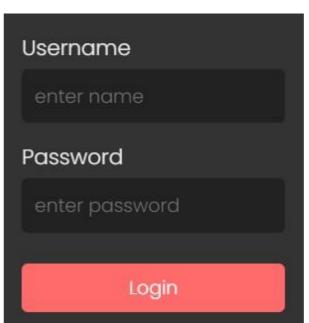
Output

Navbar:

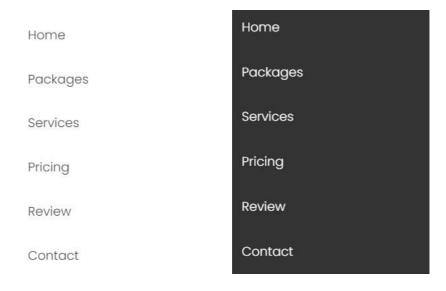


User login:



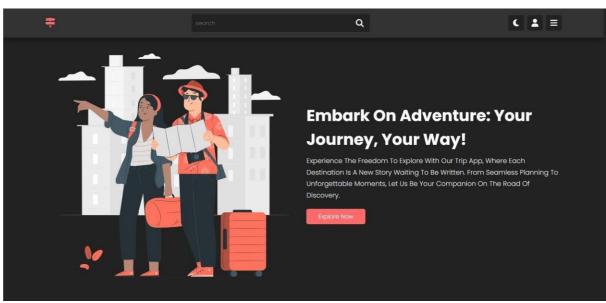


Menu bar:

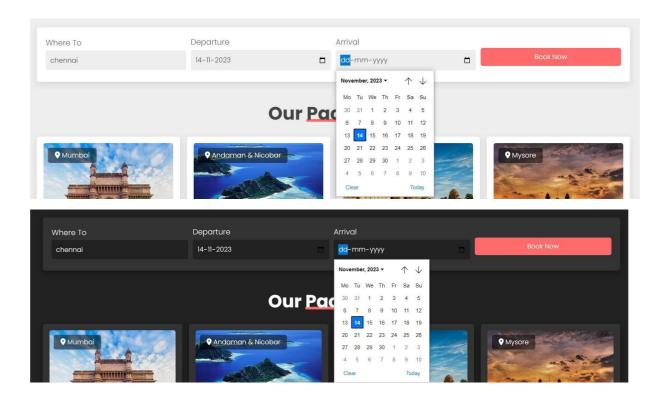


Home page:

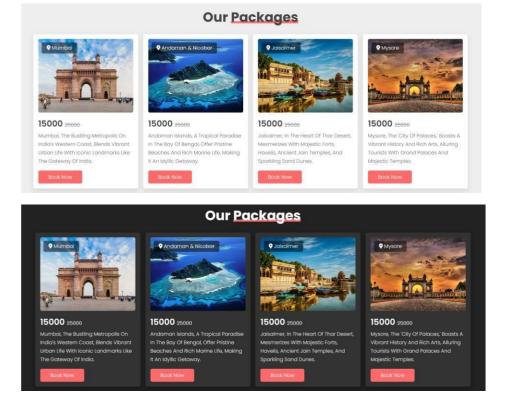




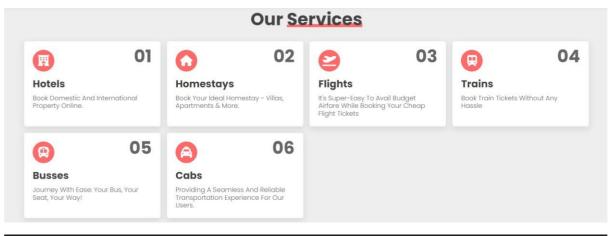
Search place:

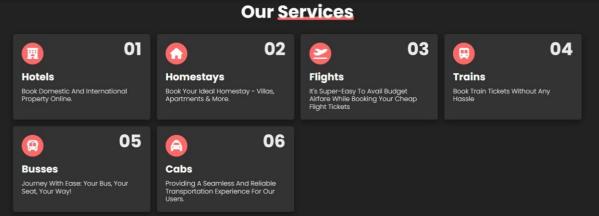


Packages:

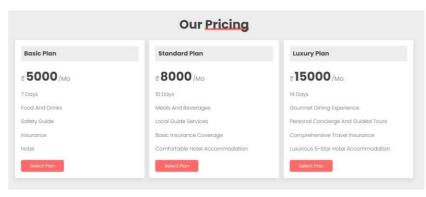


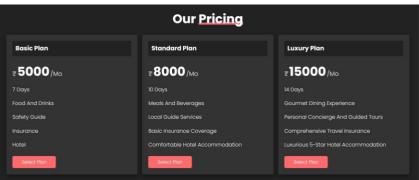
Services:





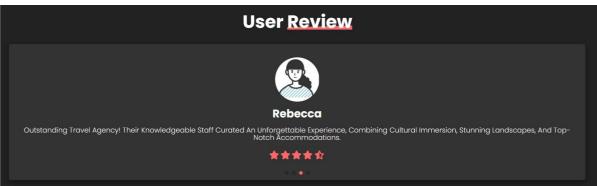
Pricing:





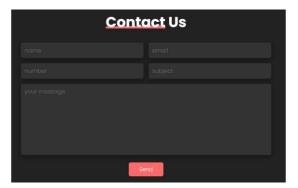
Reviews:





Contact form:





Footer:





Conclusion

In conclusion, the development of the web-based travel agency project has successfully achieved its objective of creating a captivating and user-centric platform for travel enthusiasts. The incorporation of dynamic destination displays, intuitive user interfaces, and seamless booking processes demonstrates a commitment to enhancing the overall user experience. The use of front-end technologies, including asynchronous JavaScript and multimedia elements, contributes to the website's responsiveness and visual appeal. The inclusion of real-time updates, a user feedback system, and mobile responsiveness further enriches the platform, fostering user engagement and inclusivity. While challenges were encountered during development, such as ensuring cross-browser compatibility and optimizing performance, the project's commitment to addressing these challenges reflects a dedication to continuous improvement. The insights gained from the challenges, coupled with user feedback mechanisms, provide a foundation for potential future enhancements, reinforcing the project's adaptability and commitment to delivering a cutting-edge travel experience.

References

- 1. Google Fonts: https://fonts.google.com/
- 2. Font awesome CDN: https://cdnjs.com/libraries/font-awesome
- 3. Swiper CDN: https://swiperjs.com/get-started#use-swiper-from-cdn
- 4. Vector Images: user | Free vector illustrations (storyset.com)
- 5. Images: https://stock.adobe.com/in