

## **FULL STACK PROJECT (2020-21)**

**The Tour and Travel website using Full Stack Technologies**



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## **Abstract**

The objective of the project is to develop a system that automates the processes and activities of a travel and. The purpose is to design a system using which one can perform all operations related to travelling. A tour and travel website is a website on the internet that is dedicated to travel. The site may be focused on travel reviews, trip fares, or a combination of both. Many travel websites are online travelogues or travel journals, usually created by individual travellers and hosted by companies that generally provide their information to consumers for free. The purpose of the website is to establish the fact that Internet users are increasing today. One of the main purposes of the website is to facilitate offline customer online because customers cannot spend their precious time in markets trying to find out the best deal. India is a country where in a few days holiday, you can enjoy a lot. The problem is that we although having many websites but they offer a different kind of services. The customers are enjoying a lot but there is a lack of relationship between travel agency and customers and hence we are establishing that relationship by caring and serving all customers in the same manner that we wish to be served.

## **OBJECTIVE**

The tours and travel website is a web-based application and maintains a centralized repository of all related information. The objective of this project is to develop a system that automates the process and activities of a travel agency and customer details. The purpose is to design a system using which one can perform all operations related to travelling and sightseeing.

### **Functionalities provided are as follows:-**

- This System maintains & controls the database of tourists' information.
- This System displays attractive tourist places.
- This System provides information about the Tour Packages.
- This System will provide a display platform in which tourists can find their tour places according to their choices.
- This System helps to make a strong relationship with customers so that they can enjoy that holiday of their dreams

## **Scope of the Project**

Tourism Management System is an integrated software developed for tour operating companies. The main aim of this project is to help tourism companies to manage their customers. It makes all operations of the tour company easy and accurate. The standalone platform makes tourism management easy by handing agencies requests and providing servers for the customers located in different parts of the various cities. Different modules have been incorporated in this project to handle different parts and sectors of the tour management field. It may help in collecting perfect management in detail. In a very short time, the collection will be simple and sensible. It will help a person to know the details of the past year perfectly.

Our project aims at taking the business online.

- Our project satisfies the user requirement.
- Be easy to understand by the user and administrator.
- Be easy to operate.
- Have a good user interface.

## **Introduction**

### **1.1 General Introduction to the topic**

The tour and travel website to book a tour from anywhere in the world by a single dynamic website which will help the user to know all about the places and tour details in a single website. The admin can add packages to the website from certain travel agents and hotels by creating a tour page. Then the users can sign in and book each project, they can be confirmed by the admin on their manage booking page. The user can see the confirmation on their booking page. It is the easiest platform for all travellers which can be easily booked and knows all the details. Tour Management system is a dynamic website for tourism business. It is a dynamic and responsive web design. It is also called a travel technology solution for agencies & tour operations. Nearly Everyone goes on a vacation for this ‘a Tourism management system’ would play a vital role in planning the perfect trip. The tourism management system allows the user of the system to access all the details such as location, events, etc. The main purpose is tourism companies to manage customers and hotels etc. The system can also be used for both professional and business trips.

## **1.2 The Problem Statement**

The present systems are inadequate in providing information and advice to the agencies and customers about tour plans. Often agencies are compelled to rely on local information sources and count on their own experience regarding time and cost. Through phone calls, they have to get information. There are some problems which are existing in my System that are given below concisely.

- There will be many users visiting the portal and hence we require a strong and reliable frontend that can withhold the users on our site.
- We need a strong Database where data will be stored by everyone.

## **1.3 Technologies Used**

### **HTML -**

HTML (Hypertext Markup Language) is the code that is used to structure a web page and its content. For example, the content could be structured within a set of paragraphs, a list of bulleted points, or using images and data tables. As the title suggests, this article will give you a basic understanding of HTML and its functions. HTML consists of a series of **elements**, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way. The enclosing tags can make a word or image hyperlink to somewhere else can italicize words, can make the font bigger or smaller, and so on.

### **CSS**

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colours, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

## **REACT**

ReactJS is a JavaScript library used for building reusable UI components. According to React official documentation, the following is the definition –

React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance. React can also render on the server using Node, and it can power native apps using React Native. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

JSX is a JavaScript syntax extension. It isn't necessary to use JSX in React development, but it is recommended.

React is all about components. You need to think of everything as a component. This will help you maintain the code when working on larger scale projects.

React implements one-way data flow which makes it easy to reason about your app. Flux is a pattern that helps keep your data unidirectional. Uses virtual DOM which is a JavaScript object. This will improve apps performance since JavaScript virtual DOM is faster than the regular DOM.

## **JAVASCRIPT**

**JavaScript (JS)** is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles. Read more about JavaScript.

This section is dedicated to the JavaScript language itself, and not the parts that are specific to Web pages or other host environments. For information about API specifics to Web pages, please see [Web APIs and DOM](#).

## **BOOTSTRAP**

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Bootstrap is the seventh-most-starred project on GitHub, with more than 142,000 stars, behind freeCodeCamp (almost 312,000 stars) and marginally behind the Vue.js framework.

Bootstrap is an HTML, CSS & JS Library that focuses on simplifying the development of informative web pages (as opposed to web apps). The primary purpose of adding it to a web project is to apply Bootstrap's choices of colour, size,

font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. The result is a uniform appearance for prose, tables and form elements across web browsers. In addition, developers can take advantage of CSS classes defined in Bootstrap to further customize the appearance of their contents. For example, Bootstrap has provisioned for light- and dark-coloured tables, page headings, more prominent pull quotes, and text with a highlight.

## **Hardware & Software Requirements**

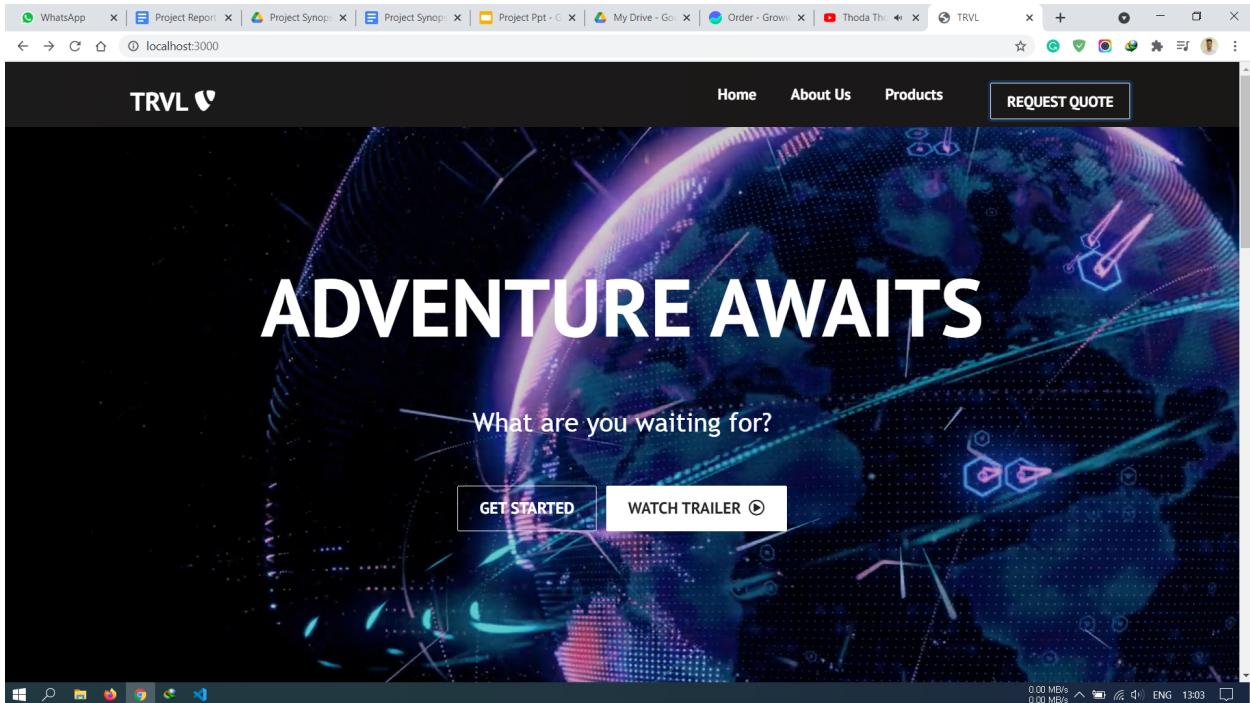
### **Software Requirements:**

- OS: Windows/Unix/Linux
- IDE: VS Code Editor
- Language: HTML5, CSS3, JAVASCRIPT(React.js),BOOTSTRAP
- Front end: Browser with support for Javascript

### **Hardware Components:**

- Processor – Dual Core
- Hard Disk – 50 GB
- Memory – 1GB RAM
- Mouse – Any Standard
- Keyboard – Any Standard

## Screenshots



WhatsApp | Project Synopsis | Project Synopsis | Project Ppt - Google My Drive - Google Order - Growth Thoda Thodi TRLV

localhost:3000

TRLV

Home About Us Products REQUEST QUOTE

The screenshot shows a travel agency's website with a dark header bar. The header includes the logo 'TRLV' with a small icon, navigation links for 'Home', 'About Us', 'Products', and a 'REQUEST QUOTE' button, and a search bar. Below the header are two large cards: one for 'Adventure' featuring a waterfall and a person standing on a rock, and another for 'Luxury' showing a private cruise route between islands. A horizontal scroll bar is visible on the right side of the page.

Adventure

Explore the hidden waterfall deep inside the Amazon Jungle

Luxury

Travel through the Islands of Bali in a Private Cruise

Luxury

Set Sail in the Atlantic Ocean visiting Uncharted Waters

Mystic

Experience Football on Top of the Himalayan Mountains

Adventure

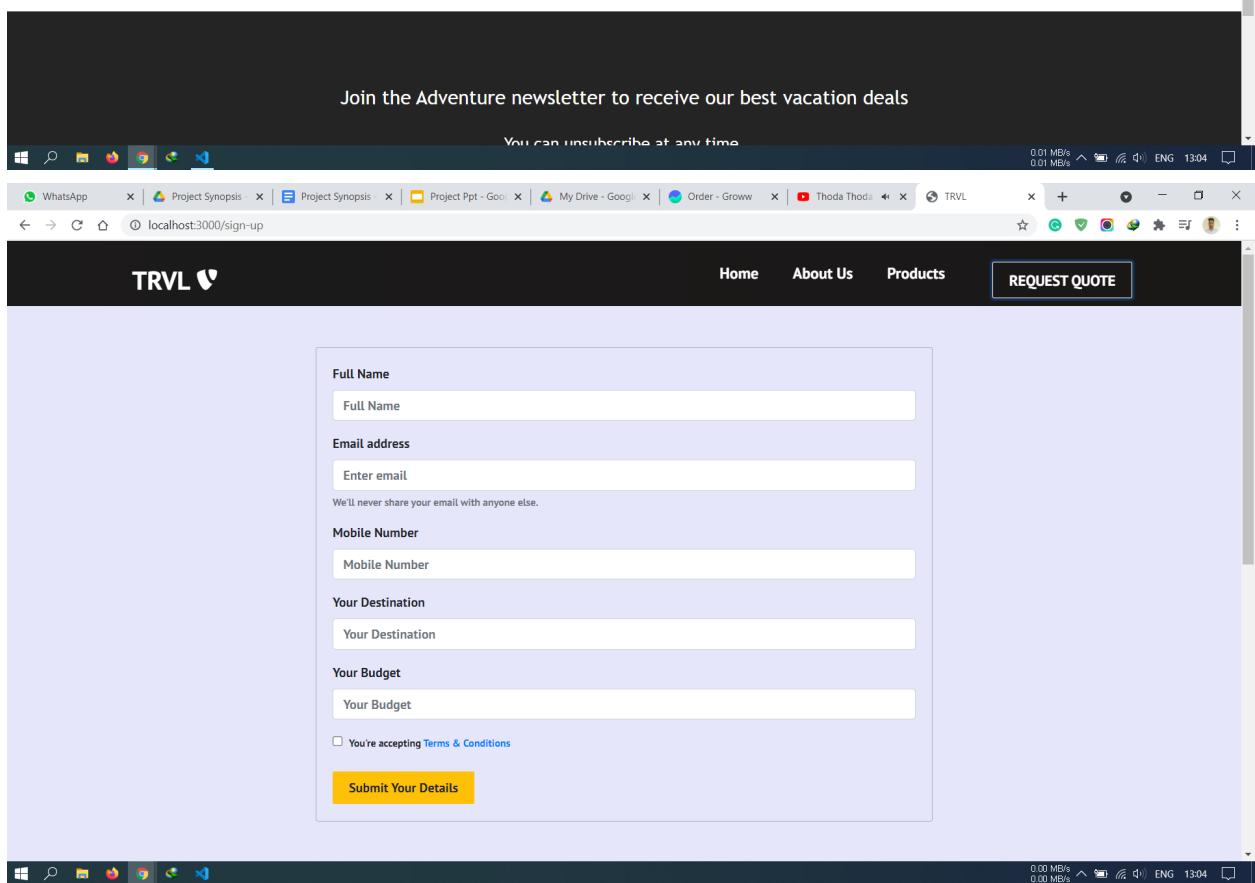
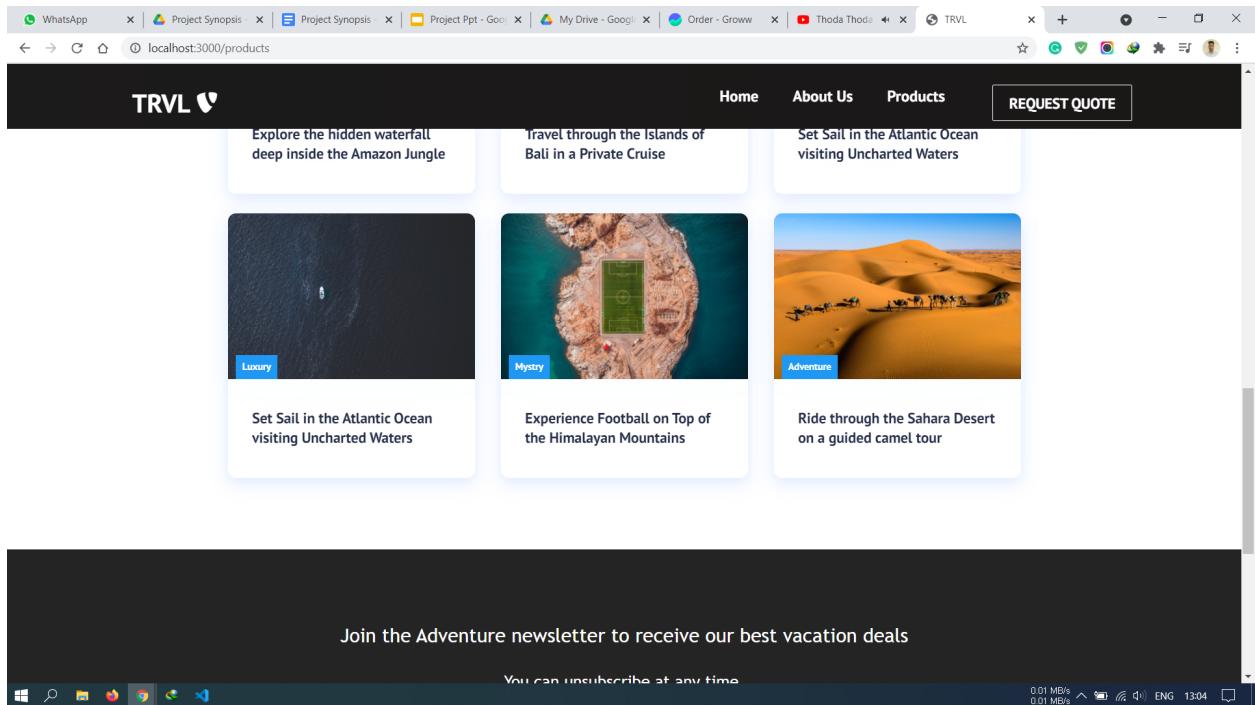
Ride through the Sahara Desert on a guided camel tour

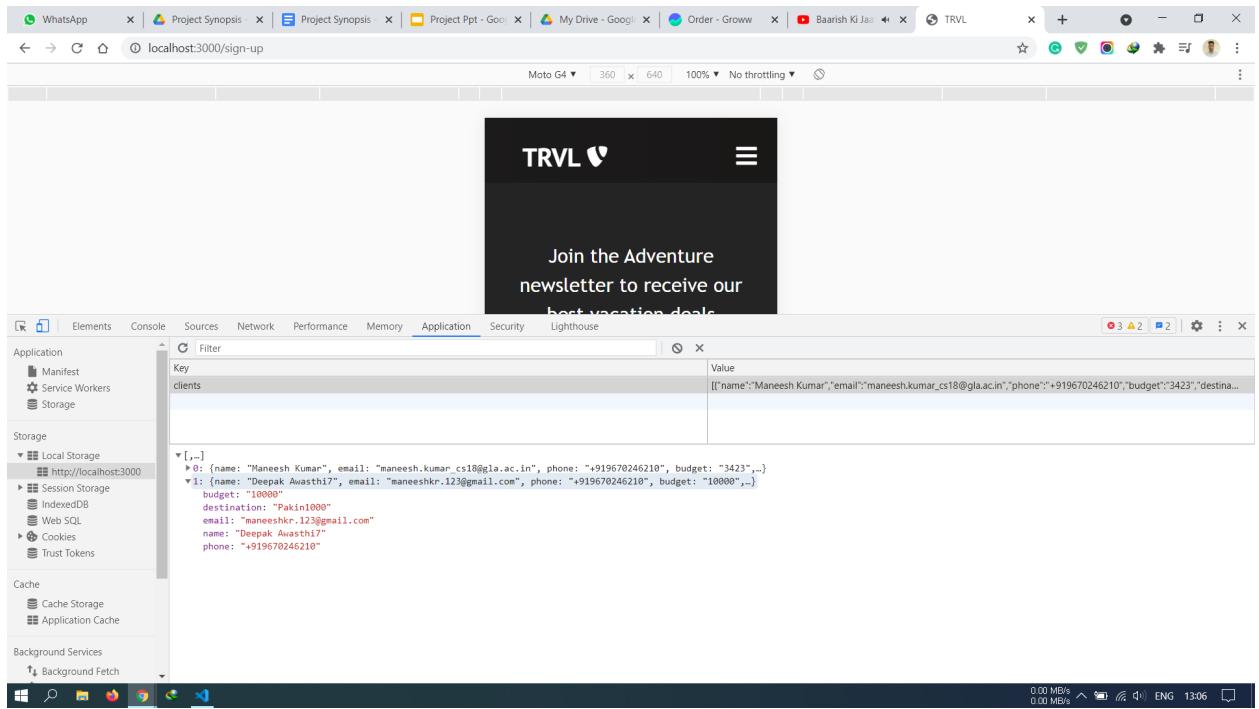
localhost:3000/services

0.00 MB/s ⌘ ⌘ ENG 13:03

The screenshot shows the 'About Us' page of the TRVL website. At the top, there is a navigation bar with links for Home, About Us, Products, and a 'REQUEST QUOTE' button. Below the navigation bar is a large image of a person standing on a rock at the base of a waterfall. To the right of the image is a section titled 'About Us' with placeholder text (Lorem ipsum) and a second paragraph. At the bottom of this section are icons for a phone (number 15646545465), a location pin (text: 'Lorem ipsum dolor sit amet Distinctio, quas?'), and an envelope (text: 'info@trvl.com').

The screenshot shows the 'Products' page of the TRVL website. The layout is identical to the 'About Us' page, featuring a navigation bar with Home, About Us, Products, and a 'REQUEST QUOTE' button. Below the navigation bar is a large image of a person standing on a rock at the base of a waterfall. The main content area contains a heading 'Check out these Epic Destinations!' followed by six destination cards arranged in two rows of three. The first card (Adventure) shows a waterfall and is labeled 'Explore the hidden waterfall deep inside the Amazon Jungle'. The second card (Luxury) shows a map of islands and is labeled 'Travel through the Islands of Bali in a Private Cruise'. The third card (Luxury) shows a dark sea and is labeled 'Set Sail in the Atlantic Ocean visiting Uncharted Waters'. The fourth card (Adventure) shows a dark sea. The fifth card (Luxury) shows a coastal area with green fields. The sixth card (Adventure) shows sand dunes.





## Some Code

### App.js

```
import './App.css';
import Navbar from './components/Navbar';
import { BrowserRouter as Router, Switch, Route } from "react-router-dom";
import Home from "./components/pages/Home";
import Products from './components/pages/Products';
import SignUp from './components/pages/SignUp';
import AboutUs from './components/pages/AboutUs';
import Terms from './components/Terms';
import Footer from './components/Footer';

function App() {
  return (
    <>
    <Router>
      <Navbar />
      <Switch>
        <Route path="/" exact component={Home} />
        <Route path="/about-us" exact component={AboutUs} />
        <Route path="/products" exact component={Products} />
        <Route path="/sign-up" exact component={SignUp} />
        <Route path="/terms" exact component={Terms} />
      </Switch>
      <Footer />
    </Router>
    </>
  );
}

export default App;
```

## App.css

```
* {
  box-sizing: border-box;
  margin: 0;
  padding: 0;
  font-family: 'PT Sans', sans-serif;
}

.home,
.services,
.products,
.sign-up {
  display: flex;
  height: 90vh;
  align-items: center;
  justify-content: center;
  font-size: 3rem;
}

.services {
  /* background-image: url('/images/img-4.jpg'); */
  background-position: center;
  background-size: cover;
  background-repeat: no-repeat;
  color: #fff;
  font-size: 100px;
}

.products {
  /* background-image: url('/public/images/img-1.jpg'); */
  background-position: center;
  background-size: fill;
  background-repeat: no-repeat;
  color: #fff;
  font-size: 100px;
}
```

```
.sign-up {  
/* background-image: url('/public/images/img-8.jpg'); */  
background-position: center;  
background-size: cover;  
background-repeat: no-repeat;  
color: #fff;  
font-size: 100px; }
```

## index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <meta name="theme-color" content="#000000" />
  <meta name="description" content="Web site created using
create-react-app" />
  <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
  <link rel="stylesheet"
    href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
    integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
    crossorigin="anonymous">

  <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />

  <link rel="stylesheet"
    href="https://use.fontawesome.com/releases/v5.15.2/css/all.css"
    integrity="sha384-vSIIfh2YWi9wW0r9iZe7RJPrKwp6bG+s9QZMoITbCckVJqGCCRhc+ccxNcdpHuYu"
    crossorigin="anonymous">
  <link
    href="https://fonts.googleapis.com/css2?family=PT+Sans:wght@700&display=swap"
    rel="stylesheet" />
  <title>TRVL</title>
</head>

<body>
  <noscript>You need to enable JavaScript to run this app.</noscript>
  <div id="root"></div>
</body>
```

```
</html>
```

## AboutUs.js

```
import React from 'react'
import '../.../App.css'
import About from '../About'
import Footer from '../Footer'

function AboutUs() {
    return (
        <>
        <About />
        </>
    )
}

export default AboutUs
```

## Home.js

```
import React from 'react';
import '../App.css';
import Cards from '../Cards';
import Footer from '../Footer';
import HeroSection from '../HeroSection';

function Home() {
  return (
    <>
      <HeroSection />
      <Cards />
    </>
  );
}

export default Home;
```

## Products.js

```
import React from 'react'
import '../App.css'
import Footer from '../Footer'
import Gallery from '../Gallery'

function Products() {
  return (
    <>
    <Gallery/>
    </>
  )
}

export default Products
```

## SignUp.js

```
import React from 'react'
import '../App.css'
import Contact from '../Contact'

function SignUp() {
  return (
    <>
    <Contact />
    </>
  )
}

export default SignUp
```

## Navbar.js

```
import React, { useState, useEffect } from 'react';
import { Button } from './Button';
import { Link } from 'react-router-dom';
import './Navbar.css';

function Navbar() {
  const [click, setClick] = useState(false);
  const [button, setButton] = useState(true);

  const handleClick = () => setClick(!click);
  const closeMobileMenu = () => setClick(false);

  const showButton = () => {
    if (window.innerWidth <= 960) {
      setButton(false);
    } else {
      setButton(true);
    }
  }

  useEffect(() => {
    window.addEventListener('resize', showButton);
    return () => {
      window.removeEventListener('resize', showButton);
    };
  }, []);
}

export default Navbar
```

```

        }
    } ;

useEffect(() => {
    showButton();
}, []);

window.addEventListener('resize', showButton);

return (
<>
<nav className='navbar'>
    <div className='navbar-container'>
        <Link to='/' className='navbar-logo' onClick={closeMobileMenu}>
            TRVL
            <i class='fab fa-typo3' />
        </Link>
        <div className='menu-icon' onClick={handleClick}>
            <i className={click ? 'fas fa-times' : 'fas fa-bars'} />
        </div>
        <ul className={click ? 'nav-menu active' : 'nav-menu'}>
            <li className='nav-item'>
                <Link to='/' className='nav-links'
                    onClick={closeMobileMenu}>
                    Home
                </Link>
            </li>
            <li className='nav-item'>
                <Link
                    to='/about-us'
                    className='nav-links'
                    onClick={closeMobileMenu}>
                    About Us
                </Link>
            </li>
            <li className='nav-item'>
                <Link
                    to='/products'

```

```

        className='nav-links'
        onClick={closeMobileMenu}
      >
    Products
  </Link>
</li>

<li>
  <Link
    to='/sign-up'
    className='nav-links-mobile'
    onClick={closeMobileMenu}
  >
    REQUEST QUOTE
  </Link>
</li>
</ul>
{button && <Button buttonStyle='btn--outline'>REQUEST
QUOTE</Button>}
</div>
</nav>
</>
) ;
}

export default Navbar;

```

## Cards.js

```

import React from 'react'
import CardItem from './CardItem'
import './Cards.css'

function Cards() {
  return (
    <div className="cards">
      <h1>Check out these Epic Destinations!</h1>

```

```

<div className="cards__container">
  <div className="cards__container">
    <ul className="cards__items">
      <CardItem
        src="images/img-9.jpg"
        text = "Explore the hidden waterfall deep inside
the Amazon Jungle"
        label = 'Adventure'
        path = '/services'
      />
      <CardItem
        src="images/img-2.jpg"
        text = "Travel through the Islands of Bali in a
Private Cruise"
        label = 'Luxury'
        path = '/services'
      />
    </ul>
    <ul className="cards__items">
      <CardItem
        src="images/img-3.jpg"
        text = "Set Sail in the Atlantic Ocean visiting
Uncharted Waters"
        label = 'Luxury'
        path = '/services'
      />
      <CardItem
        src="images/img-4.jpg"
        text = "Experience Football on Top of the
Himalayan Mountains"
        label = 'Mystery'
        path = '/services'
      />
      <CardItem
        src="images/img-8.jpg"
        text = "Ride through the Sahara Desert on a guided
camel tour"
        label = 'Adventure'
        path = '/services'
      />
    </ul>
  </div>
</div>

```

```
        </ul>
      </div>
    </div>
  )
}

export default Cards
```

## **Future Development**

Future Development is very important for each project because It includes the latest features in the System. It reduces software bugs and problems. It creates strong relationships with customers according to their feedback or choices. I will integrate some dynamic features in tour and travel websites which may integrate these explanations briefly.

- Reporting module with the real-time mechanism.
- Latest design structure with a seamless flow.
- E-mail & Mobile confirmation System.
- Online booking System.
- Online payment system.

## **Conclusion**

Tourism is currently recognized as a global industry that is highly growing at a high rate like other industries. There are many different activities that occurred in your activities. The tour and travel web-based application help in the online distribution of tour packages, different tours etc. This ‘Tour and Travel website’ can be fully customized with integration with different API’s. It has a friendly environment that connects customers willingly. Finally, I can say that this Web-Based Application will help tour managers to control and handle the tour related activities effectively and efficiently.

## **References**

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- [www.beta-labs.in](http://www.beta-labs.in)
- [www.freecodecamp.org](http://www.freecodecamp.org)