

# HARCOURT BUTLER TECHNICAL UNIVERSITY



Department of Computer Science Engineering

Session: 2022-2023

INDUSTRIAL TRAINING REPORT ON PROJECT  
“Travelling Website Using React.js”  
At Skyscanner(via Forage)

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Final B.Tech CSE

## **ACKNOWLEDGEMENT**

This work is just not an individual contribution till its completion.I take this opportunity to show my gratitude towards SkyScanner and Forage who gave me the golden opportunity to do this wonderful project on the topic **“Travelling Website Using React.js”** which has helped me to gain knowledge of frontend tech stacks and also to gain critical and valuable insights about software industry professionally.

I would also like to thank my mentor for providing excellent guidance, encouragement and inspiration throughout the Training work. Without his invaluable guidance, this work would never have been a successful one.

Lastly, I wish to avail myself of this opportunity to express a sense of gratitude and love to my parents and friends for their continued moral and material support without whom it would have not been possible to complete the internship.

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## COMPANY DETAIL

Forage: 

Forage was born in 2017 with a dream to help students from less advantaged backgrounds a chance to discover and land jobs they never thought possible. In the process, the team found that a better way to solve inequalities in hiring and give underrepresented students a chance to land careers.

Forage invented virtual work experiences. It has helped over 1.7M students, worked with companies. Forage have started helping students to join.



Skyscanner is a [metasearch engine](#) and [travel agency](#) based in [Edinburgh](#), Scotland.

The site is available in over 30 languages and is used by 100 million people per month.

The company lets people research and book travel options for their trips, including destinations, flights. Company shows all flight options in one place, creating a simple alternative to the confusing sites that make travel feel like hard work.

In 2020, the company announced that they would be laying off 300 employees after COVID-19 rocked the travel industry. This represented 20 per cent of their staff with two offices in Budapest, Hungary and Sofia, Bulgaria, likely to shut down.

In 2022, Huawei and Skyscanner forms a partnership to bring various travel services Huawei Mobile Services (HMS) and Petal Search and Petal Maps.

Dedicated to making travel as simple as possible, SkyScanner help each and every one of them find the best options across flights, hotels.

## **Abstract**

The aim of this internship was to develop a responsive front End website for the learning purpose. The main purpose of the development was to learn website designing principles and create a responsive website for the mobile and desktop platforms. The development process began defining the requirements of the website and creating the requirements document. Then the next step was learning how to design a website layout and to choose the color scheme for the site. The website was constructed by React.JS.HTML and CSS.The result of the website was as desired.

## **INTERNSHIP DETAIL**

Internship was done in virtual mode.During the internship,I was given the task of creating a frontend Web application using React Js.This frontend web application was the frontend of travelling website that includes the features similar to that of SkyScanner Website.

During the internship,I was supposed to complete the sub-tasks or activities involved in creating project on weekly basis which are described later.

## **Introduction to Front-End Development**

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The challenge associated with front end development is that the tools and techniques used to create the front end of a website change constantly and so the developer needs to constantly be aware of how the field is developing.

The objective of designing a site is to ensure that when the users open up the site they see the information in a format that is easy to read and relevant. This is further complicated by the fact that users now use a large variety of devices with varying screen sizes and resolutions thus forcing the designer to take into consideration these aspects when designing the site. They need to ensure that their site comes up correctly in different browsers (cross-browser), different operating systems (cross-platform) and different devices (cross-device), which requires careful planning on the side of the developer.

## **Tools And Technology Used For Project**

Code Editor : VS CODE

Library Used: React Js

Styling Using : CSS

Some jsx tags also used

## WEEKLY OVERVIEW OF THE PROJECT

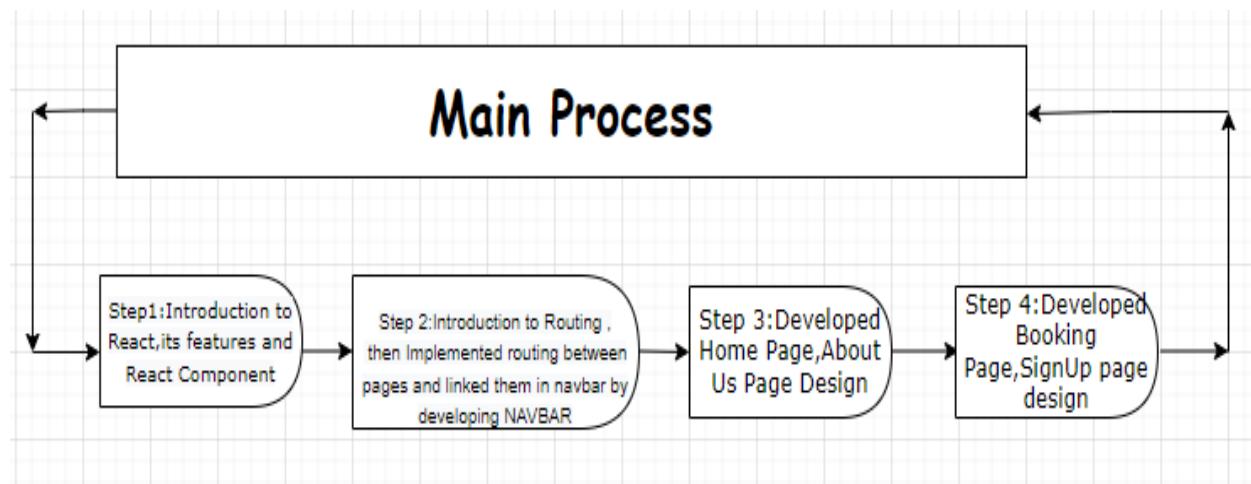
1st Week: Introduction to React js,features of React js introduction to React components.

2nd Week: Introduction to Routing and then Implemented routing between pages and linked them in navbar by developing NAVBAR.

3rd Week: Developed Home Page,About Us Page Design.

4th Week: Developed Booking page,Sign Up Page Design.

## WORK FLOW



## **About Technologies**

### **Introduction to React Js and Its Features**

React is a declarative, efficient, and flexible JavaScript library for building user interfaces

Features:

- 1-It uses one way data binding
- 2-Virtual DOM Property
- 3-High Performance

React lets you compose complex UIs from small and isolated pieces of code called “components”.

React js has different components like class components which are class based and functional components.

### **Components AND React-Router-DOM in React**

When creating a React class component, the component's name must start with an upper case letter. The component has to include the extends React.Component statement, this statement creates an inheritance to React.Component, and gives your component access to React. In React, functional components are a simpler way to write components that only contain a render method. In this we can write a

function that takes props as input and returns what should be rendered. Function components are less tedious to write than classes, and many components can be expressed this way.

React Router DOM is an npm package that enables you to implement dynamic routing in a web app. It allows you to display pages and allow users to navigate them. It is a fully-featured client and server-side routing library for React.

## Introduction to JSX

JSX stands for JavaScript XML. JSX allows us to write HTML in React.

JSX makes it easier to write and add HTML in React. JSX allows us to write HTML elements in JavaScript and place them in the DOM without any createElement() and/or appendChild() methods. JSX converts HTML tags into react elements. JSX follows XML rules, and therefore HTML elements must be properly closed.

Ex: Close empty elements with />    -> const myElement = <input type="text" />;

In JSX ,attributes like class is className.

## CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. Styling in React or HTML can be done via inline method like “`<element_name style={{styling}}> -> <h1 style={{color:'red'}}>/</h1>` OR by creating a separate file with .css as its extension like filename.css -> home.css.

## Routing Implementation Using “React-Router-Dom”

- ❖ Since the website will composed of different pages/components, so there will be the need to dynamically fetched these based on URLs rather than to refresh them again and again.
- ❖ So to make this routing possible, I used “react-router-dom” by installing it using “`npm -i 'react-router-dom'`“ command.
- ❖ Here I used react-router-components like
  - **Router** -Parent component that includes other components. Everything within this will be part of routing.
  - **Route**-checks the current URL and displays the component associated with that exact path ..

- ❖ Link-It was Used to created links to different routes in NavBar.
- ❖ To import all these components import from ‘react-router-dom’ using ‘import’ keyword.
- ❖ Routes for pages like ‘Home’, ‘About’, ‘Book A Ticket’ and ‘Sign Up’ were created in App.js file as shown below:-

## Routing Code

```

import React from 'react';
import { BrowserRouter as Router, Routes , Route } from 'react-router-dom';
import Navbar from './components/nav-bar/Navbar';
import Home from './components/pages/Home';
import './App.css';
import Booking from './components/pages/Booking';
import About from './components/pages/AboutUs';
import SignUp from './components/pages/SignUp';

function App() {
  let User=true;
  return (
    <>
      <Router>
        <Navbar />
        <Routes>
          <Route exact path="/" element={<Home />}/>
          <Route exact path="/booking" element={<Booking />}/>
          <Route exact path="/about" element={<About />}/>
          <Route exact path="/sign-up" element={<SignUp />}/>
        </Routes>
      </Router>
    </>
  );
}

export default App;

```

## METHODOLOGY

**NAVBAR** A navigation bar (or navigation system) is a section of a graphical user interface intended **to aid visitors in accessing information**. Navigation bars are implemented in file browsers, web browsers and as a design element of some web sites.

- ❖ Used nav element.
- ❖ Created link between pages for routing using Link tag as shown.

## CODE

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

import './Navbar.styles.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(() => {
        showButton();
    }, [])

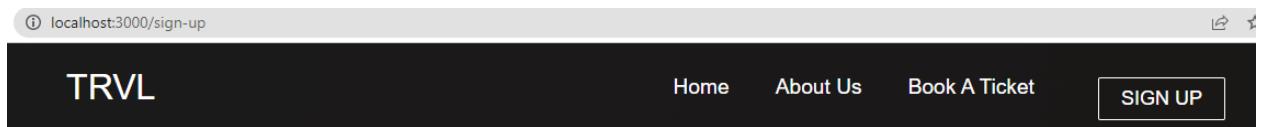
    window.addEventListener('resize', showButton)

    return (

```

```
<li className="nav-item">
  <Link
    to="/booking"
    className="nav-links"
    onClick={closeMobileMenu}
  >
    Book A Ticket
  </Link>
</li>
<li className="nav-item">
  <Link
    to="/sign-up"
    className="nav-links-mobile"
    onClick={closeMobileMenu}
  >
    ...
  </Link>
</li>
```

## OUTPUT:



## HOME PAGE

- ❖ First I created background of the home page using a image and styling via CSS.
- ❖ I then added some animations using css.
- ❖ Then I added some tourist places that our website provides with details using card components and some basic css.
- ❖ I then created footer of home page in a separate component named footer and did some styling on it.
- ❖ Then I provided contact details and social media handles like facebook,instagram to the footer section.
- ❖ Then I added HomePage component to our App.js.

## CODE :

### HERO SECTION FOR ANIMATION IN HOME PAGE

```
9      return (
0        <div className='hero-containen'>
1          <video src={video2} autoPlay loop muted />
2          <h1>ADVENTURE AWAITS</h1>
3          <p>What are you waiting for?</p>
4          <div className='hero-btns'>
5            <Button
6              className='bttns'
7              buttonStyle='btn--outline'
8              buttonSize='btn--large'
9              >
0              GET STARTED
1            </Button>
2            <Button
3              className='bttns'
4              buttonStyle='btn--primary'
5              buttonSize='btn--large'
6              >
7              WATCH TRAILER <i className='far fa-play-circle' />
8            </Button>
9          </div>
0        </div>
1      )
```

## CARDS CODE FOR CARD-COMPONENT

CARD\_ITEM- A SINGLE component for creating different cards -> Resusability of CODE.

```
import React from 'react';
import { Link } from 'react-router-dom';

function CardItem(props) {
  return (
    <>
      <li className='cards__item'>
        <Link className='cards__item__link' to={props.path}>
          <figure className='cards__item__pic-wrap' data-category={props.label}>
            <img
              className='cards__item__img'
              alt='Travel Image'
              src={props.src}
            />
          </figure>
          <div className='cards__item__info'>
            <h5 className='cards__item__text'>{props.text}</h5>
          </div>
        </Link>
      </li>
    </>
  );
}

export default CardItem;
```

## CARDS

```
function Cards() {
  return (
    <div className='cards'>
      <h1>Check out these EPIC Destinations!</h1>
      <div className='cards__container'>
        <div className='cards__wrapper'>
          <ul className='cards__items'>
            <CardItem
              src={img9}
              text='Explore the hidden waterfall deep inside the Amazon Jungle'
              label='Adventure'
              path='/sign-up'
            />
            <CardItem
              src={img2}
              text='Travel through the Islands of Bali in a Private Cruise'
              label='Luxury'
              path='/sign-up'
            />
          </ul>
          <ul className='cards__items'>
            <CardItem
              src={img3}
              text='Set Sail in the Atlantic Ocean visiting Uncharted Waters'
              label='Mystery'
              path='/sign-up'
            />
            <CardItem
              src={img4}
              text='Experience Football on Top of the Himalayan Mountains'
              label='Adventure'
              path='/sign-up'
            />
          </ul>
        </div>
      </div>
    </div>
  )
}
```

## HOME PAGE

```
import React from 'react';
import '../App.css';
import Cards from '../card-item/Cards';
import Footer from '../footer/Footer';
import HeroSection from '../hero-section/HeroSection';

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

export default Home;
```

## FOOTER CODE

```
</section>
<div class='footer-links'>
  <div className='footer-link-wrapper'>
    <div class='footer-link-items'>
      <h2>About Us</h2>
      <Link to='/sign-up'>How it works</Link>
      <Link to='/'>Testimonials</Link>
      <Link to='/'>Careers</Link>
      <Link to='/'>Investors</Link>
      <Link to='/'>Terms of Service</Link>
    </div>
    <div class='footer-link-items'>
      <h2>Contact Us</h2>
      <Link to='/'>Contact</Link>
      <Link to='/'>Support</Link>
      <Link to='/'>Destinations</Link>
      <Link to='/'>Sponsorships</Link>
    </div>
  </div>
  <div className='footer-link-wrapper'>
    <div class='footer-link-items'>
      <h2>Videos</h2>
      <Link to='/'>Submit Video</Link>
      <Link to='/'>Ambassadors</Link>
      <Link to='/'>Agency</Link>
      <Link to='/'>Influencer</Link>
    </div>
  </div>
</div>
```

# OUTPUT OF HOME PAGE

TRVL

Home   About Us   Book A Ticket   [SIGN UP](#)

Check out these EPIC Destinations!



Adventure

Explore the hidden waterfall deep inside the Amazon Jungle



Luxury

Travel through the Islands of Bali in a Private Cruise

# OUTPUT OF FOOTER PAGE

Join the Adventure newsletter to receive our best vacation deals

You can unsubscribe at any time.

[Subscribe](#)

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- [Testimonials](#)
- [Careers](#)
- [Investors](#)
- [Terms of Service](#)

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- [Destinations](#)
- [Sponsorships](#)

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- [Submit Video](#)
- [Ambassadors](#)
- [Agency](#)
- [Influencer](#)

**Social Media**

- [Instagram](#)
- [Facebook](#)
- [Youtube](#)
- [Twitter](#)

TRVL

TRVL © 2022

## ABOUT PAGE

This Component contains the information about website.  
I added explore options using button for our user to explore more about website.

Then I have styled these according to the requirement.  
I also added “book a ticket” option for user to book ticket for their favorite holiday destinations.

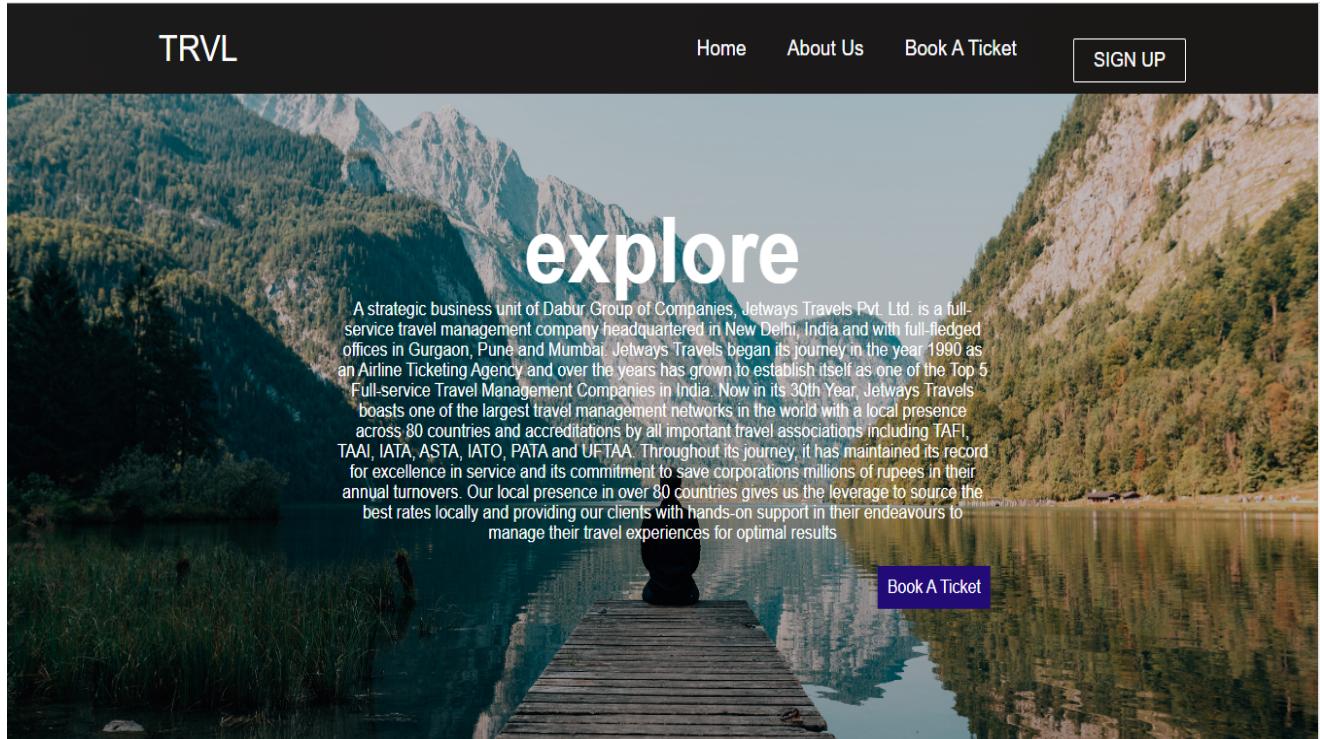
Initially this option was inactive .

<img> and <button> tags were used here for adding background image and creating the “book a ticket” button.

## CODE:

```
components > pages > Js AboutUs.js > AboutUs
import React from 'react';
import './styles/about.css';
import '../card-item/Cards';
function AboutUs() {
  return [
    <div>
      <section class="background jumbotron" id="jumbotron">
        <div class="container">
          <h1>explore <br/></h1>
          <p>A strategic business unit of Dabur Group of Companies, Jetways Travels Pvt. Ltd. is a ful
          Jetways Travels began its journey in the year 1990 as an Airline Ticketing Agency and over the years h
          Throughout its journey, it has maintained its record for excellence in service and its commitment to s
      </div>
    </section>
  </div>
}
export default AboutUs
```

# OUTPUT



TRVL

Home    About Us    Book A Ticket    SIGN UP

# explore

A strategic business unit of Dabur Group of Companies, Jetways Travels Pvt. Ltd. is a full-service travel management company headquartered in New Delhi, India and with full-fledged offices in Gurgaon, Pune and Mumbai. Jetways Travels began its journey in the year 1990 as an Airline Ticketing Agency and over the years has grown to establish itself as one of the Top 5 Full-service Travel Management Companies in India. Now in its 30th Year, Jetways Travels boasts one of the largest travel management networks in the world with a local presence across 80 countries and accreditations by all important travel associations including TAFI, TAAI, IATA, ASTA, IATO, PATA and UFTAA. Throughout its journey, it has maintained its record for excellence in service and its commitment to save corporations millions of rupees in their annual turnovers. Our local presence in over 80 countries gives us the leverage to source the best rates locally and providing our clients with hands-on support in their endeavours to manage their travel experiences for optimal results

Book A Ticket

## **BOOKING PAGE**

- ❖ First I did some styling in its background using pure CSS.
- ❖ I also created a flight booking application using basic css and html form element.
- ❖ In this option I created options like source ,destination,departure date,arrival date using “select” element.
- ❖ Options like Number of counts for adults,kids were created using “useState” React Hook.
- ❖ Facilities for user to select classname of their choice for the flight like business class,economic class,first class Etc were added.For this I used input type “radio”.
- ❖ Then ,”Search Flight” button was created for searching the available flights..

## **CODE:**

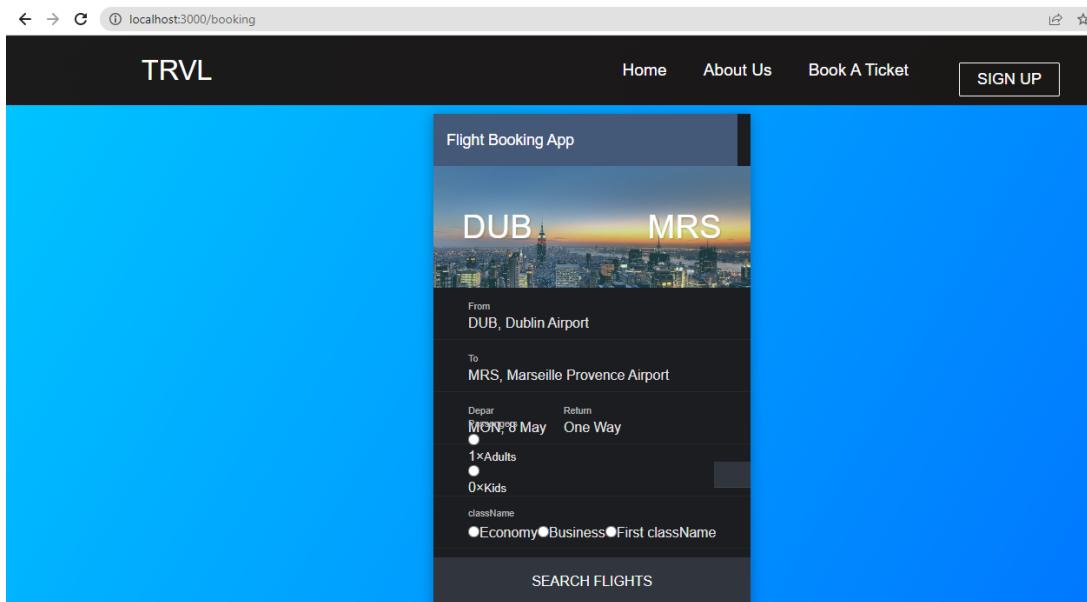
```
> components > pages > JS Booking.js > M Booking
1 import React from "react";
2 // import '../../../../../App.css';
3 import '../../../../../styles/booking.css';
4 export default function Booking() {
5   return <div classNameName='Booking'>
6     <div className="wrap" data-pos="0">
7       <div className="headbar">
8         <i className="zmdi zmdi-arrow-left btnBack"></i> <span>Flight Booking App</span>
9       </div>
10      <div className="header">
11        <div className="bg"></div>
12        <div className="filter"></div>
13        <div className="title">
14          <div className="fromPlace">
15            <span>D</span><span>U</span><span>B</span>
16          </div>
17          <span className="separator"><i className="zmdi zmdi-airplane"></i></span>
18          <div className="toPlace">
19            <span>M</span><span>R</span><span>S</span>
20          </div>
21        </div>
22        <div className="map"></div>
23      </div>
24      <div className="content">
25        <section>
```

```

<div className= info-message >
  <i className="zmdi zmdi-info"></i>
  /* <!-- <span>Select the depa date then the return date if you need a round trip ticket</span>
  <span>By the moment theres only One Way tickets, thanks.</span>
</div>
<div className="calendar">
  <div className="month">
    <i className="zmdi zmdi-chevron-left"></i>
    <span>May</span>
    <i className="zmdi zmdi-chevron-right"></i>
  </div>
  <div className="week">
    <span>S</span>
    <span>M</span>
    <span>T</span>
    <span>W</span>
    <span>T</span>
    <span>F</span>
    <span>S</span>
  </div>
  <div className="days"></div>
</div>
</div>
<div className="control radio passengers">
  <i className="zmdi zmdi-accounts"></i>
  <div className="control-item">
    <h6>Passengers</h6>
    <input type="radio" name="passengers" value="0" />
    <div><span>1</span>&times;<i className="zmdi zmdi-male-alt"></i><small>Adults</small></div>
    <input type="radio" name="passengers" value="1" />
    <div><span>1</span>&times;<i className="zmdi zmdi-female-alt"></i><small>Adults</small></div>
  </div>
</div>

```

## OUTPUT



## **SIGN UP PAGE**

- ❖ SignUp Page was created for users to sign up and to keep track of their(users) records.
- ❖ In this I created Fields like name , email address ,password using **form element** like input,label for user to enter their details and to Sign Up.
- ❖ Used “useState” React hook update these details.
- ❖ Created “Join Now” button using “button” element for successfully signing up after entering details.
- ❖ I also associated Events like “onClick” with “join now” button,so that on clicking it users details can be updated
- ❖ Styling of this page was done in a separate css file.

## **ABOUT FORM ELEMENT**

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

The HTML <input> element is the most used form element.An <input> element can be displayed in many ways, depending on the type attribute.

The <label> tag defines a label for many form elements.The <label> element is useful for screen-reader users, because the screen-reader will read out loud the label when the user focus on the input element.The <label> element also help users who have difficulty clicking on very small regions (such as radio buttons or checkboxes) - because when the user clicks the text within the <label> element, it toggles the radio

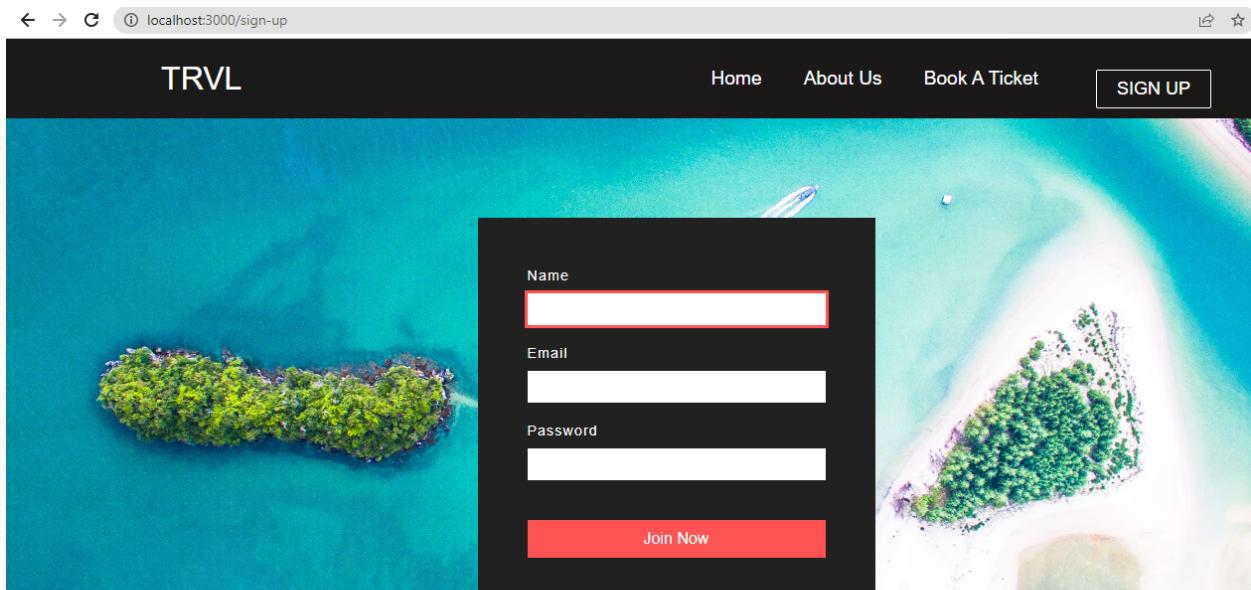
button/checkbox. The for attribute of the <label> tag should be equal to the id attribute of the <input> element to bind them together.

## **CODE:**

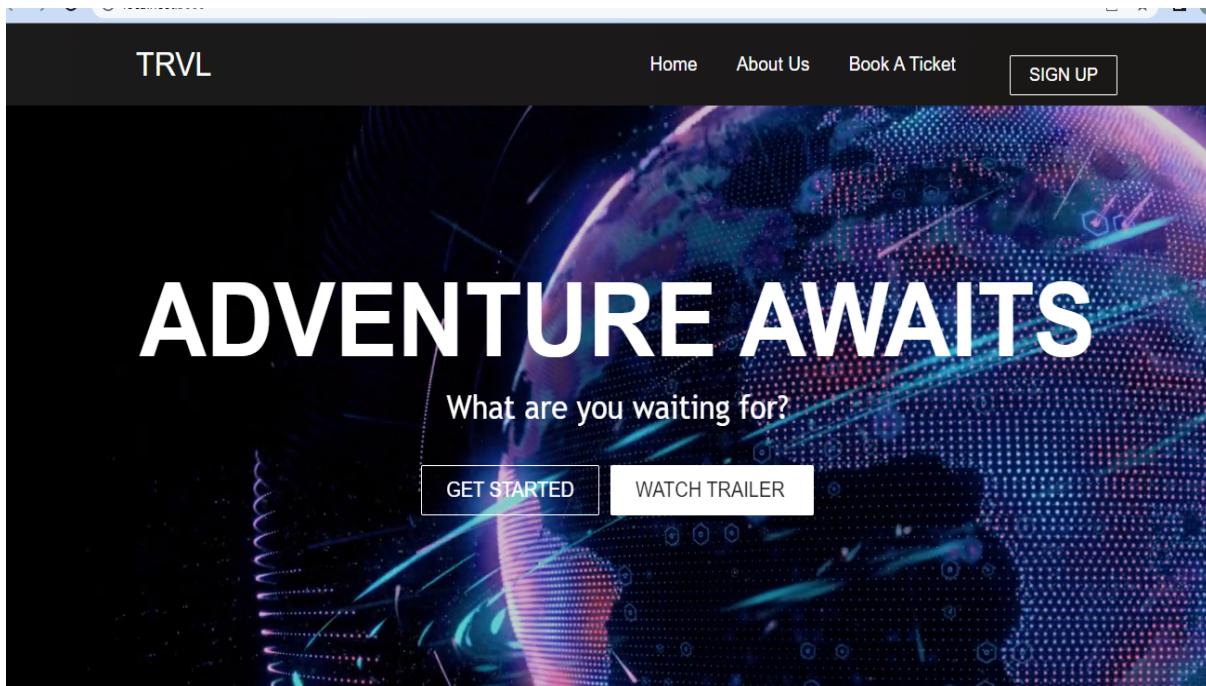
```
components > pages > JS SignUp.js > ...
import './styles/signup.css';

export default function SignUp() {
  return <div className='sign-up'>
    <div className="form-container">
      <form>
        <div className="input-group">
          <label htmlFor="name">Name</label>
          <input type="text" id="name" name="name" />
        </div>
        <div className="input-group">
          <label htmlFor="email">Email</label>
          <input type="email" id="email" name="email" />
        </div>
        <div className="input-group">
          <label htmlFor="password">Password</label>
          <input type="password" id="password" name="password"/>
        </div>
      </form>
      <button>Join Now</button>
    </div>
  </div>
}
```

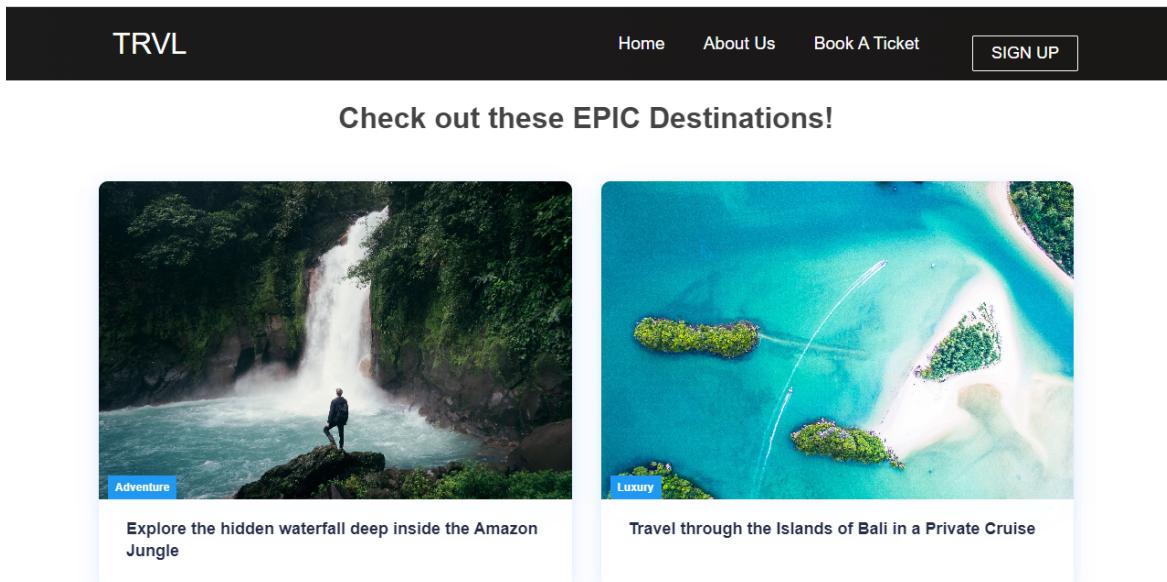
## **OUTPUT**



## PROJECT VIEW

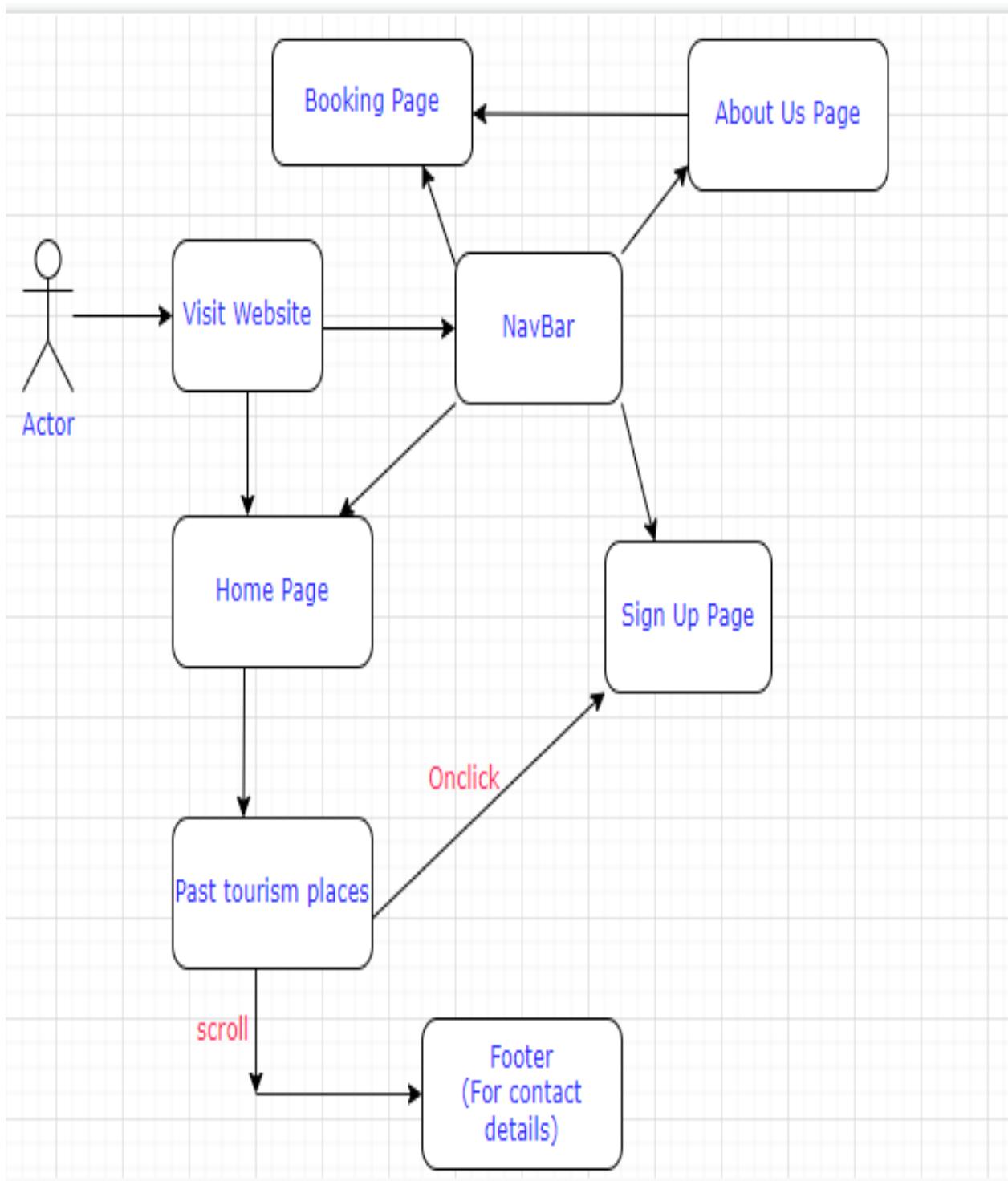


The banner features a large, stylized digital globe in shades of blue and purple, set against a dark background. Overlaid on the globe are several glowing, curved lines and small circular icons, suggesting global connectivity or travel routes. The text "ADVENTURE AWAITS" is prominently displayed in large white letters at the top left, followed by the subtext "What are you waiting for?". Below the subtext are two buttons: "GET STARTED" and "WATCH TRAILER". At the very bottom of the banner, there's a thin horizontal bar with the word "TRVL" on the left and three navigation links: "Home", "About Us", and "Book A Ticket" on the right, along with a "SIGN UP" button.



The section title "Check out these EPIC Destinations!" is centered above two image cards. The first card on the left shows a person standing on a rocky ledge overlooking a massive waterfall cascading down a lush green cliff. A small blue tag labeled "Adventure" is visible in the bottom left corner of the image. Below the image, the text reads: "Explore the hidden waterfall deep inside the Amazon Jungle". The second card on the right is an aerial view of a tropical archipelago with several small, densely forested islands surrounded by clear turquoise water. A small blue tag labeled "Luxury" is visible in the bottom left corner of the image. Below the image, the text reads: "Travel through the Islands of Bali in a Private Cruise". The top navigation bar is identical to the one on the banner, featuring the "TRVL" logo, "Home", "About Us", "Book A Ticket", and "SIGN UP" buttons.

## Working Model Of Website



# CERTIFICATE OF COMPLETION

**Skyscanner**



Inspiring and empowering  
future professionals

## **AKSHITA GUPTA** **Front-End Software Engineering Virtual Internship.**

Certificate of Completion

June 30th, 2022

Over the period of June 2022, AKSHITA GUPTA has completed task modules in  
Create a React Web App.

A handwritten signature in black ink, appearing to read "Tom Brunskill".

**Tom Brunskill**  
CEO, Co-Founder of  
Forage

Enrolment Verification Code g3fGWwvHZjjsPjdMx | User Verification Code 43yqjZtjaMXwCCqjC | Issued by Forage

## **LEARNINGS AND CONCLUSIONS**

- ❖ After creating the different components required for website and the routing between them, the frontEnd of the website was successfully created.
- ❖ Over the period of 30 days , I deeply understood the importance of react components, 'useState' React hook.
- ❖ I also learned how react-router-dom works and how to create routes for different components.
- ❖ Also learned about reusability feature of React Components.
- ❖ I also learned how to make a responsive front-end website or front-end application using only react js.
- ❖ So with all these learnings, internship was came to end.

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