

**PROJECT REPORT OF INDUSTRY  
ORIENTED HANDS-ON EXPERIENCE (IOHE)**

**ON**

**VOYAGER :**  
**“CHALEIN PHIRR??”**

**Submitted in partial fulfilment of the requirements for the award of degree of**

**BACHELOR OF ENGINEERING**

**In**

**COMPUTER SCIENCE AND ENGINEERING**

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# **CHITKARA UNIVERSITY, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## **CERTIFICATE OF COMPLETION**

This is to certify that Mr./Ms. Aaditya Pathak, Manik Khurana, Siddharth Singh , Enrolment No.\_2010991433, 2010990445, 2010991397 has successfully completed Project titled “VOYAGER” under the guidance of Mr. Abhishek Bhardwaj.

Signature of the Learners

Signature of Guide/Supervisor

Name:

Name:

Enrolment No.

Designation:

# CONTENTS

<b>Pg.no.</b>	<b>TITLE</b>
4.	ACKNOWLEDGEMENT
4-5	ABSTRACT
5-6	INTRODUCTION
6-7	METHODS
7-8	TOOLS AND TECHNOLOGIES
8-9	IMPLEMENTATION
10-14	USER INTERFACE
15-16	CONCLUSION
16-17	FUTURE SCOPE
17-18	REFERENCES

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Thank you everyone for being supportive and patient throughout this period.

## **ABSTRACT**

The travel industry is continuously evolving, with technological advancements playing a pivotal role in shaping consumer behaviours and expectations. In response to this dynamic landscape, Voyager emerges as a cutting-edge travel booking platform aimed at revolutionizing the way travellers plan, book, and experience their journeys.

Voyager is meticulously designed with a user-centric approach, offering a seamless and comprehensive solution to meet the diverse needs of modern travellers. Through intuitive interfaces and innovative features, Voyager empowers users to effortlessly discover destinations, tailor itineraries, and make informed booking decisions.

This report provides an in-depth analysis of Voyager, delving into its key features, market positioning, competitive landscape, and user experience. Additionally, it explores the underlying technologies driving Voyager's functionality, such as AI-driven recommendations, secure payment systems, and real-time data integration.

Ultimately, this report underscores Voyager's commitment to innovation, convenience, and customer satisfaction, positioning it as a trailblazer in the ever-evolving realm of online travel booking.

## INTRODUCTION

In an era where the world is more interconnected than ever before, the desire to explore new destinations and embark on unforgettable journeys has become intrinsic to the human experience. However, amidst the allure of travel lies the daunting task of planning and booking every aspect of the adventure, from flights and accommodations to activities and transportation.

Enter Voyager, your ultimate companion in the quest for seamless and comfortable travel experiences. Designed with the discerning traveller in mind, Voyager redefines the landscape of travel booking by offering a comprehensive and user-friendly platform that caters to every aspect of your journey.

At the heart of Voyager's mission is the commitment to making travel easier and more comfortable for every individual, whether you're a seasoned globetrotter or a first-time explorer. With an intuitive interface and a wealth of innovative features, Voyager empowers users to navigate the complexities of travel planning with ease and confidence.

Gone are the days of endless searches and fragmented bookings. With Voyager, you can discover a world of possibilities at your fingertips, from curated travel packages to personalized itineraries tailored to your preferences and budget. Our platform seamlessly integrates flights, accommodations, activities, and transportation options, ensuring a hassle-free and cohesive travel experience from start to finish.

Moreover, Voyager goes beyond mere convenience to prioritize your comfort and peace of mind throughout your journey. With secure payment systems, real-time updates, and dedicated customer support, we strive to exceed your expectations at every turn, allowing you to focus on what truly matters – enjoying the adventure.

Join us as we embark on a journey of discovery, exploration, and unforgettable experiences. With Voyager as your trusted companion, the world is yours to explore, and every journey promises to be an adventure in itself.

Welcome aboard Voyager, where travel is not just a destination but a comfortable and enriching experience awaiting you at every turn.

Your trusted companion in the vast realm of travel exploration. Picture a digital compass guiding you through the intricacies of planning and booking your next adventure, all while ensuring a seamless and personalized experience tailored to your preferences.

Voyager isn't just another travel booking website; it's a dynamic platform designed to ignite your wanderlust and simplify every aspect of your journey. Dive into our extensive database of accommodations, spanning from quaint boutique hotels to sprawling luxury resorts, each meticulously curated to offer you the epitome of comfort and style.

But Voyager isn't content with merely presenting options; it's committed to empowering you with knowledge and insight. Delve into comprehensive reviews, insider tips, and detailed descriptions that go beyond the surface, giving you a true sense of what to expect before you even step foot in your chosen destination.

Yet, Voyager's capabilities extend far beyond accommodation. Seamlessly plan every detail of your trip, from booking flights and arranging transportation to securing tickets for must-see attractions and excursions. Whether you're an intrepid solo traveller, a thrill-seeking adventurer, or a family in search of relaxation, Voyager caters to your every whim and desire.

Embark on a journey of discovery with Voyager as your faithful guide. Embrace spontaneity, indulge in wanderlust, and let the world unfold before you, knowing that Voyager is there every step of the way, ensuring your travels are nothing short of extraordinary.

## **METHODS**

### **Software Requirements**

This includes the list of all the software requirements that are necessary for the development and deployment of VOYAGER: Travel Assist Website

- Operating System: Windows 10, macOS, or Linux
- Angular, Visual Studio Code, Spring Boot
- HTML , CSS, JavaScript
- Bootstrap

- MySQL

## **Hardware Requirements**

This section describes the hardware requirements needed to run the VOYAGER: Travel Assist Website. These requirements include the minimum and recommended hardware specifications, such as the processor, RAM, graphics card, and storage capacity:

- Processor: Intel Core i5 or equivalent
- RAM: 4 GB or higher
- Hard Disk: 128 GB or higher

## **TOOLS AND TECHNOLOGIES**

### **Programming/Working Environment**

The following components are used in our website:

- Languages: HTML, CSS, JavaScript
- Integrated Development Environment (IDE): Visual Studio Code
- Databases: MySQL
- Frameworks and Libraries: Angular, Spring Boot
- Testing Tool: Selenium

### **Requirements to run the application**

- 1. Spring Boot
- 2. Package Manager (ng)
- 3. Application Dependencies



- 4. Environment Variables
- 5. Database (MySQL)

## IMPLEMENTATION

```

1 <div id='navbar' class='navbar navbar-bg'>
2   <div class='nav ? 'logo dark' : 'logo' '>
3     <h1>Voyager.</h1>
4   </div>
5   <ul class='nav-menu'>
6     <a (click)="scrollToSection('hero')">Home</a>
7     <a (click)="scrollToSection('destinations')">Destinations</a>
8     <a (click)="scrollToSection('book')">Book</a>
9     <a (click)="showAboutUs()">About Us</a>
10    <a (click)="scrollToSection('footer')">Contact Us</a>
11    <a (click)="showSignin()">Sign In</a>
12  </ul>
13  <div class='nav-icons'>
14    <a (click)="scrollToSection('weather')"><i class='fa fa-cloud' aria-hidden='true'></i></a>
15  </div>
16 </div>
17 <app-sign-in *ngIf="showin" #sign></app-sign-in>
18 <app-about-us *ngIf="showabout"></app-about-us>

```

## NAVBAR COMPONENT

This code outlines a navbar with a logo, a navigation menu with clickable links that trigger JavaScript methods to navigate to different sections of the page or show specific components, and an additional icon for the weather section. The conditional components app-sign-in and app-about-us are rendered based on their respective boolean flags.

Designed for both functionality and aesthetic appeal, the Voyager navbar enhances the user experience by making navigation intuitive and efficient, ensuring users can explore and plan their travels with ease.

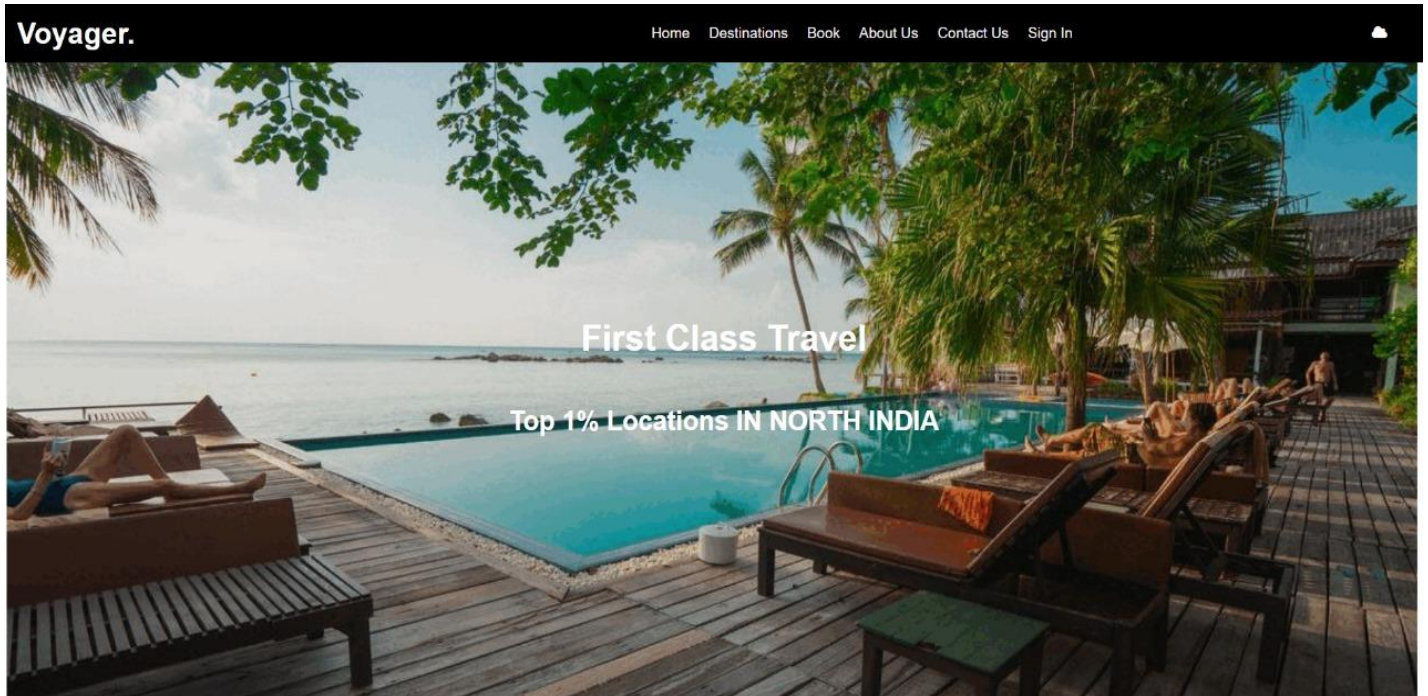
```
TS weather.service.ts 3 X
TS weather.service.ts > ...
1 import { Injectable } from '@angular/core';
2 import { HttpClient } from '@angular/common/http';
3 import { Observable } from 'rxjs';
4
5 @Injectable({
6   providedIn: 'root'
7 })
8 export class WeatherService {
9   apiKey = '895284fb2d2c50a520ea537456963d9c';
10
11   constructor(private http: HttpClient) {}
12
13   getWeather(location: string): Observable<any> {
14     const url = `https://api.openweathermap.org/data/2.5/weather?q=${location}&units=metric&appid=${this.apiKey}`;
15     return this.http.get(url);
16   }
17 }
18
```

## WEATHER SERVICES

This Angular service, Weather Service, is designed to fetch weather data from the OpenWeatherMap API. It does so by:

1. Importing necessary Angular and RxJS modules.
2. Using the @Injectable decorator to make the service available application-wide.
3. Defining a method getWeather that constructs an API request URL and makes an HTTP GET request using HttpClient, returning the result as an observable for asynchronous handling.
4. **Dependency Injection:** The service uses Angular's dependency injection to receive an HttpClient instance.
5. **API Interaction:** It provides a method getWeather to interact with the OpenWeatherMap API.
6. **Observables:** It leverages RxJS Observable to handle asynchronous data, allowing components to subscribe to weather data streams.
7. **Reusability:** The service can be injected into any component, making it easy to reuse the weather-fetching logic across your application.

# HOME PAGE



The homepage of the Voyager travel assist app is designed to provide users with an intuitive and engaging experience as they explore their travel options. At the top of the homepage, a sleek navigation bar features essential buttons including Home, Destinations, Book, About Us, Contact Us, and Sign In. These buttons allow users to seamlessly navigate through the app's primary sections. The Home section offers a welcoming overview and introduces users to the app's capabilities. The Destinations section showcases a variety of travel destinations, complete with detailed information and stunning visuals to inspire users' next adventures. The Book section provides a streamlined booking process, making it easy for users to plan and reserve their trips. The About Us section shares the story and mission of Voyager, helping users connect with the team behind the app. The Contact Us section offers various ways for users to get in touch with customer support, ensuring they have assistance whenever needed. Finally, the Sign In button allows users to access their personalized accounts, manage bookings, and enjoy a tailored travel planning experience. Overall, the homepage is designed to be user-friendly and visually appealing, making travel planning effortless and enjoyable.

# TOURISTS ATTRACTIONS AND DESTINATIONS



## Tourist Attractions

Best of the North India



The homepage of the Voyager travel assist app serves as a vibrant gateway to the world's most captivating tourist attractions and spots. As users land on the homepage, they are greeted with a visually rich and interactive display of top destinations from around the globe. This section is meticulously curated to feature stunning images and brief descriptions of each attraction, offering a glimpse into what makes these places truly special. Whether it's the historical allure of ancient landmarks, the natural beauty of scenic landscapes, or the cultural richness of bustling cities, the homepage showcases a diverse array of tourist spots designed to inspire and excite travelers. Users can easily browse through the featured attractions, each accompanied by essential information such as location, highlights, and must-see experiences. This immersive display not only fuels wanderlust but also provides valuable insights to help users make informed decisions about their next adventure. Voyager's homepage is more than just a starting point; it's an invitation to explore and discover the world's wonders, all at the user's fingertips.




# HOTEL BOOKINGS AND AVAILABILITIES

**Voyager.**

HomeDestinationsBookAbout UsContact UsSign In

**LUXURY INCLUDED VACATIONS**

Come experience the very pinnacle of luxury North India all-inclusive vacations for all at Resorts. Our luxury beach resorts, set along the most gorgeous tropical settings and exquisite beaches in Rajasthan feature unlimited gourmet dining, unique bars serving premium liquors and wines, and every land and water sport, including complimentary green fees at our golf resorts . If you are planning a wedding, Rajasthan is the leader in North India destination weddings and honeymoon packages.



**North India's  
LEADING**  
**ALL-INCLUSIVE  
COMPANY**


**NO ONE INCLUDES MORE  
PACKAGES**  
**ALL-INCLUSIVE COMPANY**  
[View Packages](#)

Destination  
New Delhi


Check-In  
mm/dd/yyyy

Check-Out  
mm/dd/yyyy

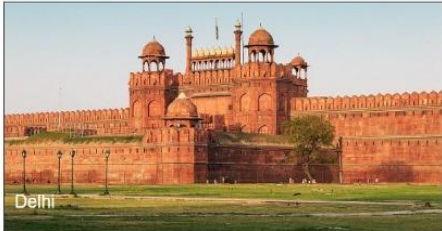
[Hotel Availabilities](#)



Punjab



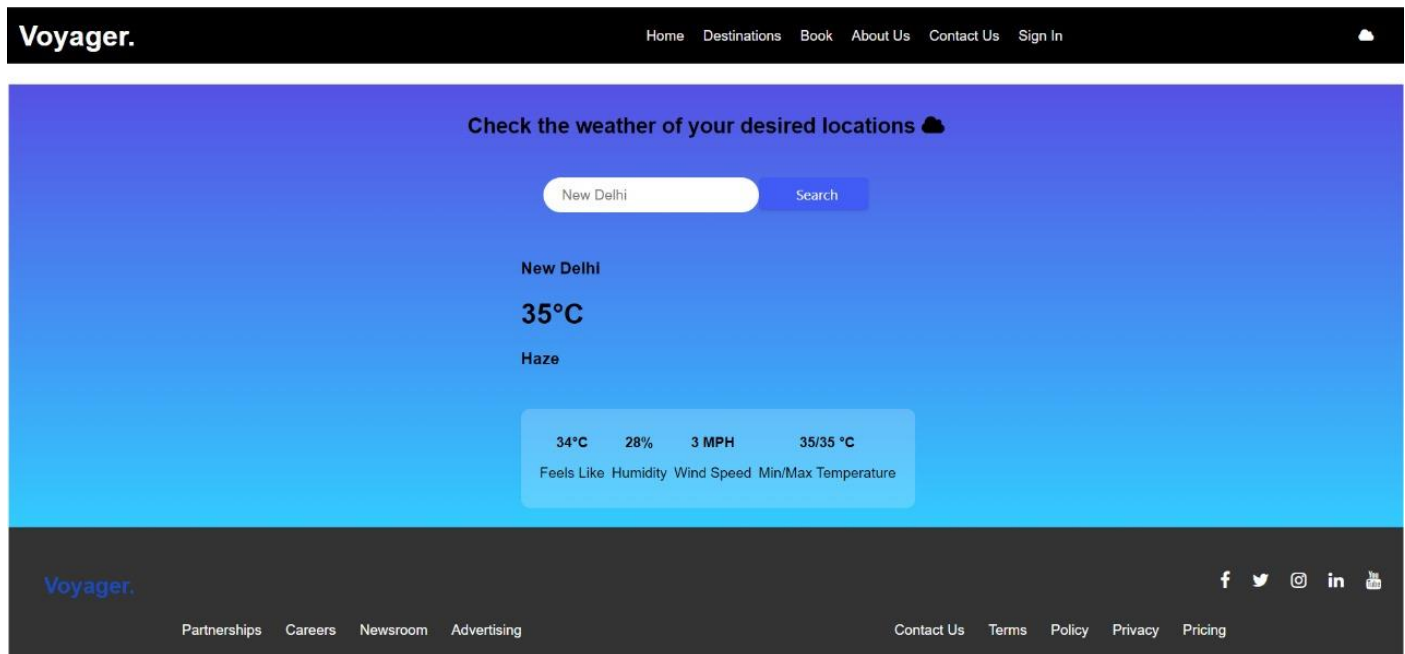
Chandigarh



Delhi

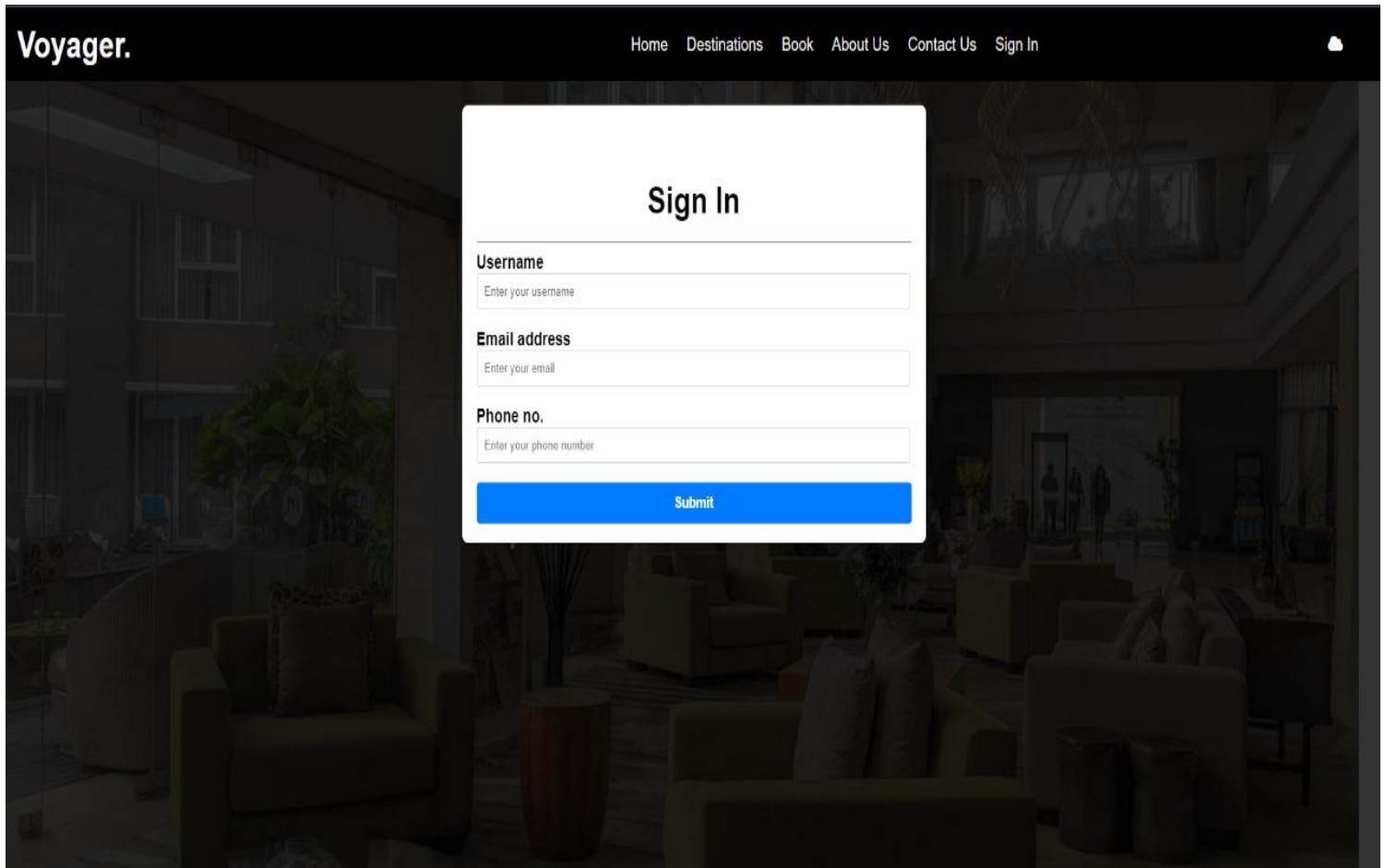
This page elegantly combines detailed information about top tourist attractions with practical resources such as hotel availabilities and interactive calendars. Users can explore a wide range of tourist spots, each highlighted with captivating images and essential details to spark their interest. Alongside these attractions, the page provides real-time hotel availability, ensuring users can find the perfect accommodation to complement their travel plans. The integrated calendars allow users to easily select their travel dates, check hotel availability, and synchronize their itinerary all in one place. This seamless integration of tourist attractions, accommodation options, and scheduling tools makes the Voyager Bookings page a one-stop destination for effortless travel planning. Whether users are dreaming of a serene getaway or an adventurous escapade, the Bookings page equips them with all the necessary tools to plan their journey with confidence and ease.

# WEATHER FOR DESIRED LOCATIONS



The Voyager travel assist app includes an innovative feature that empowers users to plan their trips with confidence by providing real-time weather information for their desired destinations. Before finalizing any travel plans, users can utilize this feature to check the current and forecasted weather conditions at their chosen location. This functionality ensures that travelers are well-prepared and can pack accordingly, avoiding any surprises due to unexpected weather changes. Whether it's planning a beach vacation, a mountain adventure, or a city tour, knowing the weather in advance helps users make informed decisions about the best times to visit and what activities to include in their itinerary. This weather-checking feature is seamlessly integrated into the trip planning process, making Voyager not only a tool for booking and exploring destinations but also a reliable companion for ensuring a smooth and enjoyable travel experience.

## USER SIGN-IN PAGE

The image is a screenshot of a web application's sign-in page. At the top, there is a dark navigation bar with the 'Voyager.' logo on the left and a series of links (Home, Destinations, Book, About Us, Contact Us, Sign In) on the right. A small bell icon is also present in the top right corner. The main content area features a large, dimmed background image of a modern interior space with armchairs and plants. Overlaid on this is a white, rounded rectangular sign-in form. The form has a title 'Sign In' at the top. Below the title are three input fields: 'Username' with a placeholder 'Enter your username', 'Email address' with a placeholder 'Enter your email', and 'Phone no.' with a placeholder 'Enter your phone number'. At the bottom of the form is a blue button labeled 'Submit'.

The Voyager travel assist app includes a user-friendly Sign In page that ensures a secure and personalized experience for every user. On this page, users can enter their credentials, including their email address and phone number, to create an account or access their existing profile. This information is securely stored in the app's database, enabling seamless access to personalized travel recommendations, booking history, and exclusive features. The Sign In process is designed with user security in mind, incorporating best practices for data protection and privacy. By logging in, users can enjoy a tailored experience, with their preferences and past interactions enhancing their journey planning. The Sign In page is the gateway to unlocking the full potential of the Voyager app, making travel planning more efficient, organized, and enjoyable.

# CONCLUSION

In the fast-paced world of modern travel, where time is of the essence and convenience is paramount, Voyager stands as a beacon of innovation and accessibility. Through its intuitive interface, comprehensive features, and unwavering commitment to user satisfaction, Voyager not only simplified the process of travel planning but has also redefined the very essence of the travel experience itself. Throughout the course of this project, we have explored the myriad ways in which Voyager empowers travellers to plan their adventures with ease and confidence. From its user-friendly design to its robust functionality, Voyager seamlessly integrates every aspect of travel planning, allowing users to discover, customize, and book their dream journeys with unparalleled efficiency. One of Voyager's most compelling attributes is its accessibility. Whether you're browsing from the comfort of your home desktop or on the go with your mobile device, Voyager ensures that planning your next adventure is always within reach. With just a few clicks or taps, users can access a wealth of travel resources, from flight options and accommodation listings to destination guides and activity recommendations.

Moreover, Voyager's commitment to user satisfaction extends beyond the digital realm. With dedicated customer support and a seamless booking process, Voyager ensures that every traveller's needs are met with the utmost care and attention to detail. Whether you're embarking on a solo expedition or planning a family getaway, Voyager is with you every step of the way, ensuring a stress-free and memorable travel experience.

As we conclude our exploration of Voyager, it is clear that this project represents more than just a travel booking app. It is a testament to the power of innovation, technology, and human ingenuity to transform the way we experience the world around us. With Voyager as your trusted companion, the possibilities are endless, and every journey promises to be an adventure in itself.

In closing, we invite you to embark on your next adventure with Voyager by your side. Whether you're traversing the globe or exploring hidden gems in your own backyard, Voyager is here to



make your travel dreams a reality. Thank you for joining us on this journey, and we look forward to seeing where Voyager takes you next.

## **FUTURE SCOPE**

- Looking ahead, Voyager has numerous opportunities for growth and development to further enhance the travel booking experience for its users. One avenue of expansion involves broadening its service offerings. Voyager could integrate additional features such as travel insurance, visa assistance, and local guides, providing users with a more comprehensive solution for their travel needs.
- Moreover, Voyager can explore the integration of emerging technologies like virtual reality (VR) and augmented reality (AR) to offer users immersive previews of destinations and accommodations before making bookings, thereby enhancing the overall user experience.
- Personalization is another area of focus for Voyager's future development. By leveraging machine learning algorithms and data analytics, Voyager can deliver personalized recommendations tailored to each user's preferences, travel history, and behaviour patterns, facilitating the discovery of new destinations and experiences.
- Establishing strategic partnerships and collaborations with airlines, hotels, and tourism boards presents another opportunity for Voyager. By offering exclusive deals, discounts, and curated travel packages, Voyager can provide added value to its users while expanding its network of offerings.

- Accessibility and localization are also key considerations for Voyager's future growth. By offering support for multiple languages, currencies, and accessibility features, Voyager can ensure that its platform is accessible and user-friendly for travellers from diverse backgrounds and regions.

## REFERENCES

- BOOTSTRAP:

<https://getbootstrap.com/>

Bootstrap provides a responsive grid system and pre-designed components, making it easier to create a visually appealing and mobile-friendly user interface for Voyager.

- SPRING BOOT :

Official Spring Boot documentation: <https://docs.spring.io/spring-boot/documentation.html>

- MySQL DATABASE:

Official MySQL documentation: <https://dev.mysql.com/doc/>

- ANGULAR:

### 1. Angular Documentation

- Official Angular Documentation: <https://angular.io/docs>
- Angular CLI Documentation: <https://angular.io/cli>
- Angular Forms: <https://angular.io/guide/forms>

- Angular HTTP Client: <https://angular.io/guide/http>

## 2. Tutorials and Guides

- Angular Tutorial: Tour of Heroes: <https://angular.io/tutorial>
- Angular University: Comprehensive Angular courses and tutorials: <https://angular-university.io/>

## 3. Books

- "Angular: Up and Running" by Shyam Seshadri:  
<https://www.oreilly.com/library/view/angular-up-and/9781491999837/>
- "Pro Angular" by Adam Freeman:  
<https://www.apress.com/gp/book/9781484236480>