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Next Trip, A Travel Guide Application

**Dr.Rajinkant Mohanty, Ahmad Reshad Sadiqi, Shafiullah Amiri, Hamid Ahmadi,
Tanvir Rahman Sany**

AssociateProfessor, Dept. of C.S.E-S.E., School of Engineering & Technology Jain University, Bangalore, India

Student, Dept. of C.S.E-S.E., School of Engineering & Technology Jain University, Bangalore, India

Student, Dept. of C.S.E-S.E., School of Engineering & Technology Jain University, Bangalore, India

Student,Dept. of C.S.E-S.E., School of Engineering & Technology Jain University, Bangalore, India

Student,Dept. of C.S.E-S.E., School of Engineering & Technology Jain University, Bangalore, India

ABSTRACT: Today, a mobile phone is an essential component of every person's life. We suggest an architecture for a mobile tourist guide system for smartphones that can easily give mobile users access to tourism-related information. This article introduces the development of a tourist guide app for India that aims to assist tourists in exploring the country's rich cultural and historical heritage. The application provides information on historical, cultural, and natural attractions, as well as accommodations, restaurants, and transportation options. It has attributes including maps, reviews from users, and recommendations determined by user choices. The goal of this project is to improve tourists' travel experiences and help India become a more popular travel destination. We developed an internet mobile application based on the needs of tourists and the application is designed to be user friendly and easily accessible for both domestic and international tourists when they are visiting India.

KEYWORDS: Architecture, tourism-related information, assist tourist, provides information, includes features, experience, contribute, internet mobile application, user friendly, accessible

I. INTRODUCTION

India is a country that is steeped in history and culture, and its tourist destinations attract millions of visitors from all over the world each year. The country's diverse landscape and rich cultural heritage offer a wide range of experiences for tourists, from ancient temples and monuments to vibrant cities and scenic landscapes. However, navigating through India's many tourist destinations can be a challenge for visitors, especially those who are unfamiliar with the local culture and customs. To address this issue, a tourist guide application is developed to assist visitors in exploring India's many tourist destinations. The application provides users with accurate and up-to-date information on various tourist attractions in the country, including historical sites, cultural events, and natural wonders. With the help of this application, users can customize their itinerary based on their preferences and interests. They can also book tickets, hotels, and other travel-related services directly through the application, making it a one-stop-shop for all their travel needs.

Furthermore, the application also provides information about local transportation options, including public transport and taxi services, as well as local restaurants making it easier for users to explore and enjoy their visit to India. It also includes features such as maps, user reviews, and personalized recommendations based on user preferences. The application is designed to be user-friendly and accessible for both domestic and international tourists. It can be downloaded and used on any smartphone or tablet, making it easy for visitors to access information on the app. Overall, the tourist guide application for India is a valuable resource for anyone looking to explore the country's many tourist destinations. It is an essential tool for tourists to plan their itineraries, navigate through new places, and make the most out of their travel experience.

II. RELATED WORK

This study aims to enhance the diversity of tourist offerings in Tungurahua Province through the formation of QR codes. The study employs an experimental approach using a questionnaire and the UTAUT Reception Model to validate the instruments. The findings reveal that online travel is the finest approach for economic recovery post-pandemic, as it enables visitors to self-guide while adhering to biosecurity protocols.

Ecuador is a country with significant tourism potential, boasting the highest biodiversity of species per square kilometre globally. The country's economy largely relies on tourism, with Tungurahua Province serving as the capital.

With the advancement of technology, the tourism industry has undergone a significant transformation, with mobile technology playing a crucial role in each stage of the trip. In recent years, the mobile sector has experienced phenomenal development, leading to a globalized world that has introduced a "new mobility paradigm." This has led to the emergence of M-Tourism, which focuses on electronic and mobile marketing strategies, providing guests with services and information during their travel.

To conclude, this text highlights the importance of mobile applications in tourism, the extensive usage of QR codes along tourist routes and the requirement for a national application that offers details on places to go, things to buy, and services to utilize across the nation. The study emphasizes the factors contributing to the increased use of mobile devices and applications, such as easier accessibility and purchasing of equipment and changes in the tourists' profile and preferences. This information is crucial for businesses and residents as tourists demand instant information through apps to stay informed during their trips [1].

The main objective of this research is to present a flutter-based application that incorporates different capabilities into a single platform, thereby providing tourists with important information and services all in one place, without the need to navigate multiple applications. The application offers three key services: image recognition, trip planning, and access to tour guides. These services are developed as Rest APIs in Django and provide job opportunities for numerous tour guides.

The widespread adoption of smartphones has transformed people's lives, bringing significant changes to modern society. As a result, mobile applications have been developed, extending the functionalities of mobile phones beyond traditional audio transmission. One of the sectors that have greatly benefited from these advances is the tourism industry. This paper explores an app that offers three primary functionalities to assist tourists: image recognition to identify tourist attractions, personalized trip planning based on user interests, and optimal route planning. It also creates employment opportunities for tour guides.

In summary, this research presents a practical response to the challenges encountered in the tourism sector. Smaarak-My Tour guide is a trustworthy and efficient app that simplifies travel and empowers travelers to explore new places according to their preferences. An audio tour of the specified location is provided by the app, which can identify tourist spots from a picture. It suggests the finest destinations based on user interests and generates an optimal route. Future work could include enhancing existing features, such as incorporating travel history tracking and live route tracking [2].

Tourism plays a vital role in India's economy, accounting for an estimated 9.2% of GDP in 2018. The nation's historical and cultural diversity, which spans its geography, attracts millions of tourists every year. However, traditional tour guides and academics have limitations in providing information on the historical and architectural significance of sites. This paper provides an overview of research efforts aimed at developing an automated decision-making system to enhance the visitor experience of tourism in India, utilizing machine learning approaches for basic heritage site analysis.

India's rich cultural and historical heritage is of paramount importance, and the maintenance and conservation of its monuments and architectural structures is critical in the quick-paced world of today. Computer vision techniques are used to study these structures, including classification and segmentation of architectural styles, which present challenges because of things like a lack of labelled data, variation in perspective, lighting, scale, and viewpoint. Applications for automatic monument recognition may be found in many fields, such as historical research, archaeological conservation, tourism, and education. This essay surveys prior research in the field of monument classification and recognition.

Overall, this study examines the recent developments in the classification and identification of landmarks and monuments using computer vision and machine learning methods. . It also covers the authors' ongoing research direction and briefly goes over the architectural analysis and modelling of the monuments using several analytic and renovation strategies. Thanks to advancements in this field, it is now possible for anybody to snap a photo of a statue or notable structure and discover its cultural and historical significance, as well as investigate how many design philosophies have merged to produce these marvels. These changes might encourage preservation efforts for historic and architectural structures as well as advance the travel and education sectors [3].

Sri Lanka has a lengthy history as a travel destination, despite several ups and downs brought on by political and socioeconomic factors. The third-largest sector of the economy is tourism, and the Covid19 epidemic is now affecting the nation. To help independent travelers travel securely, the idea of "JESSY" a smart travel helper has been put out. It

has a timer for leisure activities, reputable travel guide endorsement, an online tour encounter, Chabot, utilities, resources, and safety.

With almost \$1.2 trillion in global receipts produced by the tourism sector in 2011, it is a significant contributor to the global economy. One of the most well-known tourist attractions in the area is Sri Lanka, which has a wide variety of golden beaches, unique exotic wildlife, stunning landscapes, and a strong cultural heritage. The eight key tourism attractions listed by the Sri Lanka Tourist Board are: Pure, Historical, Exciting, Wild, Blissful, Beautiful, Essential, and Festive. 15% of the 5033 visitors to Sri Lanka in 2018 and 2019 were from India, while 9.8% were German. 83% of visitors to Sri Lanka came on a non-package basis, while the remaining 19% came on a package basis. The current research effort concentrated on lone travellers who require a trip companion. The goal of this research was to create a mobile technology-based solution for demanding lone visitors who journey alone and without assistance from others. The development of "JESSY," the travel assistant, must focus on four key areas: a trustworthy mechanism for scheduling human tour guides, a free time planner, a service that provides travel-related information support, and an AI-based colloquial model. The main goal of this project was to create a smart automated system for multitasking so that travellers might have more satisfying travel experiences.

Overall, 'JESSY' is an English-language mobile-based remedy designed to assist travellers visiting Sri Lanka. The system comprises four primary components, including a human-centered AI-monolith colloquial model, study of social media data, comments, and travel-related information for dependable tourist guide suggestions and a time planner with a suggestion system for recommendations. Currently, the application is available on the Android platform, with plans to extend into other languages and different mobile types such as iOS and into a web-based solution. Future plans include adding additional requirements and services to enhance the user experience [4].

In Indonesia, the tourist industry has been significantly harmed by the Covid-19 outbreak, which has resulted in severe losses. With the help of this study, travel guide applications will be built with capabilities including online ticket purchasing, lodging, travel advice, and transportation. To describe the design process and the semantic difference that users utilize to interpret an object's meaning, it employed the six steps of the design thinking methodology. User trust in the mobile application interface display has also been rated positively, and mobile applications' user interfaces have affirmative visual cost. This study can be used to provide recommendations for future work on improving tourism's productivity after a pandemic.

With the economic potential wasted owing to the 2020 pandemic reaching IDR 200.92 trillion and the tourist industry's portion to GDP decreasing dramatically by -53.29%, the pandemic Covid-19 has had a substantial adverse effect on Indonesia's tourist industry. Due to the lack of foreign visitors, this has forced the small and medium-sized tourism businesses to suffer enormous losses. The outcomes have not been as anticipated, despite the Indonesian government's attempts to mitigate the impact and develop the industry. East Java has a lot of potential for tourism, and the government is attempting to speed up digitalization in the tourist industry for small and medium-sized businesses to restore the Indonesian economy.

In order to limit direct touch and adhere to recognized health guidelines, this project intends to build an architecture for a travel guide application. These qualities consist of the ability to place an order online, instructions to the selected tourist site, details on amenities that are nearby tourist attractions, and details on travel companies that offer tour packages in East Java. In order to offer ease and comfort throughout the epidemic, research has been done on mobile application design. Examples are the "MboisApp" and "Malang Menyapa" apps, which give information on tourist spots and events. While few studies have concentrated on creating the graphical user interface of travel guide mobile applications, this research is crucial to making the tourist business somewhat productive post-pandemic.

In general, this study intends to develop an architecture for the "Pijakan" travel guide application to assist travellers in learning about tourism destinations in East Java while still upholding health standards. The app has features including local travel, map directions, and up-to-date tourism destinations that make travelling easier for users. Moreover, it offers details on how to reserve lodging, tourist attraction tickets, and transportation to travel guides, among other travel-related services. In order to revive and expand tourism in East Java following the epidemic Covid-19, further research is required [5].

The present study suggests a mobile application to guide tourists while traveling to their destinations. The application is based on Android application development technology, and it incorporates advanced coding of Java and

JavaScript to create a user-friendly platform. By using this application, Visitors have access to all relevant information pertaining to their destination with just one click. This application is cost-effective since there are no charges associated with using it or accessing its data. The approved data contained in the application includes information about the tourist spot's description, traditional food, nearby hospitals for emergency cases, first aid remedies, and the nearest railways and airports. The application launched on the Google Play App Store.

The article emphasizes the importance of traveling and its numerous benefits, including physical and psychological well-being, creativity, and exposure to diverse cultures. India is identified as one of the best tourist locations due to its diverse culture and population. However, the government has not made adequate arrangements to provide tourists with information about their travel spots. The authors propose a mobile application that primarily provides accurate information without requiring an active internet connection, which is the most important aspect of their research. Various methodologies, such as Mobile Application Development by Using MASAM Technique and SLESS Technique, can be employed to design this application. Nevertheless, these techniques are becoming less popular due to their intricacy and poor processing rate. The authors have conducted extensive research to create the Tourist Guiding Mobile Application, which provides users with valuable outcomes. Additionally, the authors provide first aid remedies for tourists to follow in case of an emergency. Future segments of the paper will focus on the promising features of the Android Mobile Application.

To conclude, the study highlights the significance of traveling and introduces a mobile application that covers most tourist spots globally. The application provides a comprehensive platform with all the essential details, such as the nearest railways and airports to the tourist spots, the nearest hospitals, and the main landmarks of the location. Furthermore, the application is designed to enable end-users to access all possible credible information in a single app without internet connectivity [6].

The paper describes a research project aimed at developing a mobile tourist guide known as Invercargill, which utilizes mobile technologies, such as mobile augmented reality (MAR) and location-based service, to promote tourism in Invercargill. The project focuses on the design and execution of the guide, utilizing client-server architecture and software development kits (SDKs) and application programming interfaces (APIs). The results of the study suggest that the guide can increase the travel experience of tourists by providing them with relevant information and reducing travel time to various attractions.

According to recent data, the tourism industry plays a crucial role in New Zealand's economy, which contributed 4.6 percent of GDP indirectly and 5.9 percent of GDP directly in 2017. It is predicted that the industry will continue to enhance between 2018 and 2024, with annual tourist numbers rising by an anticipated 4.6 percent, from 3.8 million in 2018 to 5.1 million in 2024. Despite this growth, some significant New Zealand cities, such as Invercargill, are not receiving adequate attention from tourists. Therefore, the present study goal to create a mobile augmented reality (MAR) traveler guide utilizing location-based technology to raise the delivery of visitor information and assist users in obtaining relevant information. The project will also focus on the implementation of augmented reality technology in the mobile tourist guide.

In summary, MAR research is active in the field of tourism, and several MAR travel guides have been established for various locations. InvercARgill is a personalized location-based MAR tourist guide that supports multilingualism, list view, map view, and augmented reality (AR) view to help users find and learn about attractions. The guide also incorporates attractions recommender system (RS) to recommend to users' tourism attractions based on their preferences, thereby mitigating information overload. Future work could prioritize reliability, performance, and security, include an API translator to address communication barriers, and incorporate social features for sharing tourist information with family and friends. [7].

In this essay, the potential of a voice-activated navigational assistance for a single customer in an unfamiliar setting is explored. The system utilizes the Google Map API to provide information and employs Text-to-Speech to assist with route management through voice. The directions are provided to the user through audio signals and positions are represented as longitude and latitude points by the GPS receiver. The developed system provides the local user with a descriptive aid for directions to the destination.

GPS-enabled voice recognition navigation system is gaining popularity for people to explore unfamiliar territories. This approach appeals to users who want to use voice-activated technologies via an Android app to navigate through

uncharted territory. Voice recognition process is the procedure of converting a speech signal to a sequence of words via a computer program. Artificial Intelligence enhances the quality of Computer-Human Interaction in the process of Voice-to-Text conversion, which is more precise than previously and offers them better guidance. On a smartphone, Google Assistant is a reputable voice assistant that can carry out tasks including answering queries, scheduling time, and controlling home appliances. This app can even assist the visually impaired in navigating to the destination as the voice assistance feature is also available.

Overall, even though English is the primary language of instruction, few tourists will be fluent in the language. The addition of a Tamil language form of communication for the system sparked some criticism throughout the evaluation. Moreover, the learning module might incorporate AI, and the system continuous care might be extended at the same time. It provides direction to reach the destination through voice, making it a simpler and more efficient application to use. The voice assistant is used to provide more accurate routes to the users since the interaction provides the application more convenient [8].

III. METHODOLOGY

The Next Trip is developed using agile methodology and designed around two main components. First, agile methodology refers to the rapid and iterative app development technique that involves segmenting the entire cycle of developing a mobile application into many tasks. The entire collection of separated processes is then divided into a number of sub-tasks, with each task being handled as a separate module by the app development team. Then, a specialized cross-functional team of specialists is given each module, and they each work on each module as a separate mini-project.

The technique aids numerous teams in concurrently developing the various app components. The final project then combines a number of minor pieces. Agile development for mobile apps not only lowers the risk involved but also gives the developers complete freedom and flexibility to create a fantastic mobile app with the capacity to quickly adapt to changes after delivery. Since the Next Trip developed using agile method so, the development of Next Trip is involving a multi-stage process, including research, design, development, testing and launch. The following are the key steps in the methodology:

1. **Research:** The development team will conduct extensive research to identify the most popular tourist destinations in India, along with information about local transportation, hotels, and other travel-related services. This research will also include an analysis of the needs and preferences of potential users of the application.
2. **Design:** Based on the research findings, the development team designed the user interface and functionality of the application. The design will focus on creating a user-friendly and intuitive interface that is easy to navigate and customize.
3. **Development:** The application will be developed based on the user requirements and using software development practices. The development team will work to ensure that the application is stable, secure, and fast.
4. **Testing:** A thorough testing process will be used to make sure the application satisfies the highest requirements. Unit testing, integration testing, functional testing, and system testing are all part of the testing process.
5. **Launch:** Once the testing is complete, the application will be launched on various mobile platforms such as iOS and Android. The development team will continue to monitor the application and make updates as necessary to ensure that it continues to meet the needs of users.

Second, the mobile application and the web server are the system's two fundamental building blocks. The mobile application receives the saved data from the web server. The mobile device receives location information using data from the Global Positioning System (GPS). Where map-based services are necessary, "Google Maps" is employed. When available, the application can use 4G services or wireless connectivity to connect to the central web server via the Internet. Shows how the mobile-based tour guide's logical system architecture is laid out. To access the tour guide information, the user uses a mobile device. Based on the user's choices and location data, the web server offers the

appropriate information. Due to the great degree of flexibility offered by this design and the addition of a lightweight application, the system's usability and dependability are both improved.

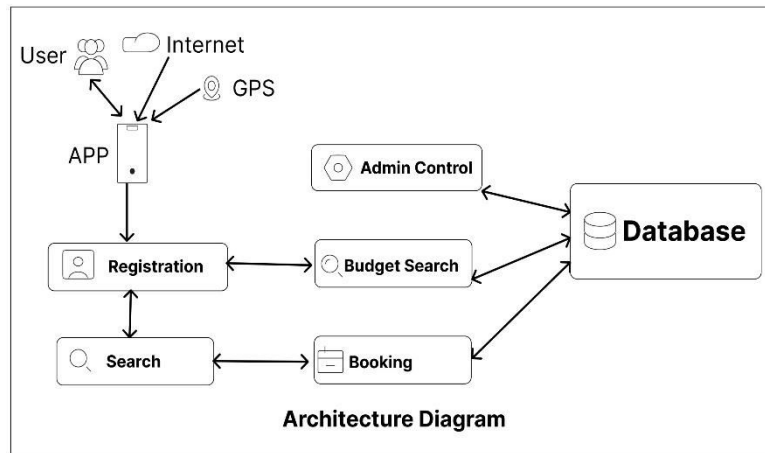


Fig.1.Architecture Diagram

IV. PROPOSED SYSTEM

In Propose of this application is to give a Budget Search option for the customer so can enter the amount of the budget they have plus number of days they want to travel and they can decide how much percentage of that amount of the budget should be for their own expenses and the remaining percentage for the hotels and transportation money. The user should put their current resident city on there. Then according to input given by the user the app will show them the available list of hotels in different cities and lists of available transportation from their current resident city to other cities based on the available hotels. The user can scroll through lists and they can travel there and book hotels among the lists.

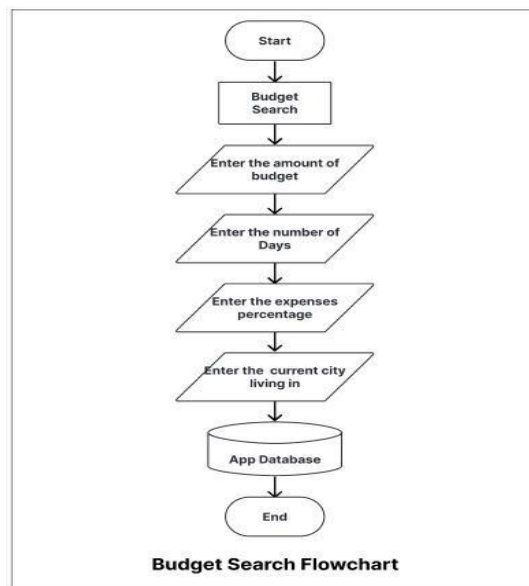


Fig.2.Budget Search Flowchart

The user launches the application on their device by tapping on its icon. The application's main page displays various options and features available to the user. Among these options, the user can locate and identify the budget search feature, which allows them to search for options within their budget constraints. Upon selecting the budget search option, a pop-up interface known as a bottom sheet appears on the screen. The bottom sheet provides a compact

and convenient way for the user to enter their budget-related search criteria. Within the bottom sheet, the user is prompted to enter their travel budget in the specified field. Additionally, they can input the duration of their travel by specifying the number of days they plan to be away. The user has the option to allocate a certain percentage of their travel budget for personal expenses such as meals, shopping, or entertainment and the rest for the hotel and transportation. This allows the application to provide more accurate recommendations and suggestions based on the user's preferences. The user is prompted to enter the name of their current city of residence. They can also specify whether they require transportation options, such as flights, trains, or buses, for their travel. Based on the information provided by the user in the bottom sheet, the application queries its database to retrieve relevant options. The app then displays a list of available hotels, flights, trains, and buses that fit within the specified budget, duration, location, and transportation preferences. The user can scroll through those options, view detailed information, and make bookings or reservations according to their needs.

V. IMPLEMENTATION

The tourist guide application has been developed using the FlutterFlow platform for designing, building and developing the application's user interface. The navigation, integrations, passing parameters from one page to another page all of these have been done by using the FlutterFlow. Because FlutterFlow provides a drag-and-drop interface that simplifies the process of designing and navigation between UI elements, such as buttons, text fields, lists and other elements. The user interface has been designed and built to be user-friendly and intuitive, allowing users to easily navigate the application and find the information they need.

FlutterFlow support Firebase backend and easy to connect the FlutterFlow with Firebase. Firebase has been used for database and storing the data related to the application. We convert our data in JSON files and through python code we pushed the JSON file in the firebase to store the date and use it for application support. Firebase provides a powerful and flexible backend solution for mobile applications, allowing developers to easily store and retrieve data in real-time. Using Firebase, the application's database has been designed to store information about tourist attractions, such as their names, descriptions, locations and other information related to the application. Firebase's real-time synchronization capabilities ensure that users always have the most up-to-date information about the attractions.

We also used 000Webhost website for backend support to store only images related to the hotels, tourist attraction and other images. We used 000Webhost to reduce the size of the application instead of putting all images in the application and it gives us flexibility to get the images easily and load the image faster while running the application in the device. 000Webhost is a website hosting service that offers free web hosting solutions to individuals and small businesses. With 000Webhost, users can create and host their websites without any cost. The platform provides sample storage space, bandwidth, and essential features required to run a website smoothly. It supports popular web development technologies and offers an easy-to-use website builder for beginners. Users can choose from various templates and customize their websites with ease. 000Webhost also provides tools for domain management, email accounts, and website analytics. While it is a free hosting service, it does offer additional premium features and upgrades for those looking for advanced functionalities. Overall, 000Webhost is a reliable and accessible option for users seeking cost-effective web hosting solutions.

In FlutterFlow there is no need to write any code. The FlutterFlow has the capabilities to generate and write the code by itself while we are designing the application. FlutterFlow also use Dart language for its coding in the back. When the entire application has been designed and connected to the firebase properly then you can download the code or you can push the code in GitHub. Then in visual studio code framework in flutter get the code and run it in flutter. Using Flutter, provide a seamless experience across both Android and iOS devices. It gives us capabilities to run our application in both Android and ISO devices easily. Flutter is a powerful framework that allows for the creation of high-performance, cross-platform mobile applications. The application has been optimized for performance, ensuring that it loads quickly and responds smoothly to user interactions.

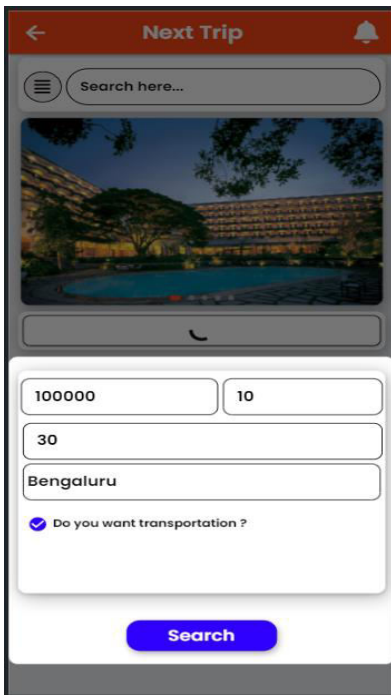


Fig.3. Budget Search with input

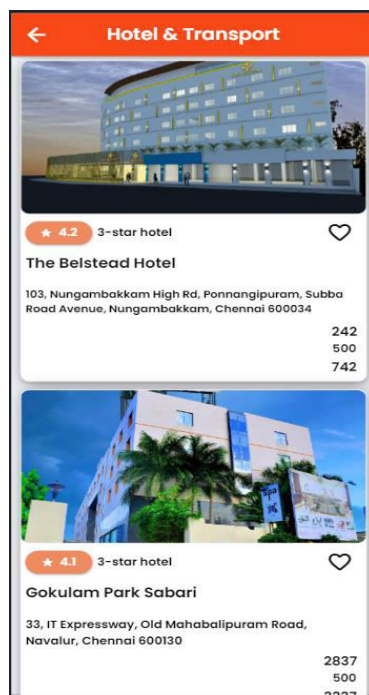


Fig.4. Available Hotels as per inputs

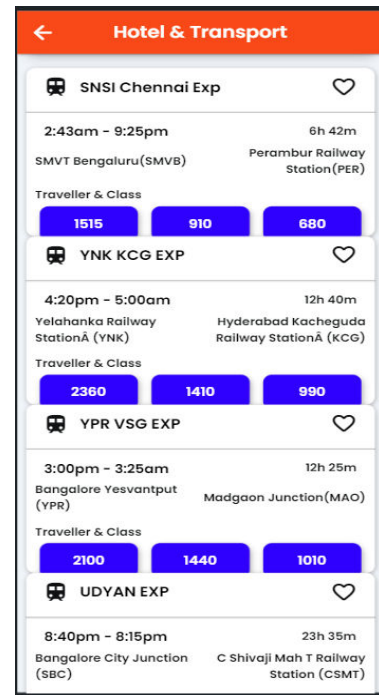


Fig.5. Available Flights as per inputs

VI. CONCLUSION AND FUTURE WORK

The Tourist Guide Application in India is a valuable tool for tourists visiting India. It provides comprehensive information about popular tourist destinations in India, including historical landmarks, cultural attractions, and natural wonders. The customized itineraries feature of the application is particularly useful for users who want to plan their trips based on their preferences and interests. The application is works based on the internet to update the real time information. It has been tested extensively to ensure its stability, security, and performance. The application has the potential to be a game-changer in the Indian tourism industry, as it provides a user-friendly and intuitive guide for tourists visiting India.

The future work, the Tourist Guide Application in India still has room for improvement. The application can be improved with additional features like voice-based navigation, augmented reality, and social media integration in the future. The application can be expanded to cover more tourist destinations in India, including off-beat locations and less popular destinations. The development team can also explore the possibility of adding features such as real-time weather updates and emergency services information.

Overall, the Tourist Guide Application in India has great potential to become a valuable tool for tourists visiting India. With further development and enhancement, the application can help to promote tourism in India and provide a user-friendly and intuitive guide for tourists visiting the country.

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