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# **Personalized Travel Planner**

Dr. K P N V Satya Sree Professor Usha Rama College of Engineering and Technology Vijayawada, India satyasreekpnv@gmail.com

Kolli Lahari Student Usha Rama College of Engineering Technology Vijayawada, India laharikolli2004@gmail.com Chirapu Swapna kumara Student Usha Rama College of Engineering and Technology Vijayawada, India swapnachirapu@gmail.com

Kondasani Harshavardhan Student Usha Rama College of Engineering and and Technology Vijayawada, India kondasaniharshavardhan@gmail.com Journal of Nonlinear Analysis and Optimization : theory & Applications ISN': 100-005 Editors-in-Chief : Somport flohting Somport flohting

Bhimireddy Devi Priya Student Usha Rama College of Engineering and Technology Vijayawada, India devipriyabhimireddy@gmail.com

#### Abstract—

The personalized travel planner is all about providing suggestions based on the user preferences Tourist such as places, accommodations, food, transportation. Users will specify their details like travel dates, preferred destinations, budget, travel style (eg: luxury, adventure). It advices the user to visit the place based on their preferences like hill stations, beaches, temples, historical sites etc. It suggests the user to select number of the rooms and also recommends the type of room based on their budget. It recommends the user to have the food of his choice of cuisine in a restaurant or a hotel that is nearby. The user can select the mode of delivery for the food. After reaching the desired destination the user can use the local transportation to explore the places.

**Keywords-**Personalized Travel Planner, Geolocation services, Real-time API integration, Push notifications, Mobile-friendly interface, Realtime recommendations, Travel itinerary, Travel dates, Preferred destinations, Budget constraints, Room availability, Budget-based room suggestions, Luxury stays, Travel style (luxury, adventure, family, etc.) and Seasonal pricing.

## **I.INTRODUCTION**

Tourism is a widely enjoyed activity around the globe that enables one to learn about new destinations, meet new cultures, and break the routine of their daily operations. However, organizing a trip is a perilous task that requires one to consider different issues such as accommodation, transportation, dining venues, and time for activities. Traditional travel aids have the drawback of offering general solutions without any relation to your personal taste, which leads to inefficiency and frustration.

To address these challenges, this study proposes the Personalized Travel Planner, an intelligent travel assistant with real-time information, personalization, and emergent technology to provide a user-friendly and tailored experience. Based on recommendation systems, and realtime processing, the planner provides user-based recommendations for accommodation, travels, restaurant eating, activities based on user-specified parameters such as budget, travel dates, and travel style (e.g., luxury or adventure).

The deployment of the Personalized Travel Planner is based on HTML, CSS, Java Spring Boot, and SQL, making it scalable, efficient, and user-friendly. The technical feasibility, operational feasibility, and effectiveness of the system in simplifying the travel planning process are discussed in this research.

This paper will cover the design, development, challenges, and future improvements of the system, contributing to research in intelligent travel planning solutions.

This research explores the system architecture, feasibility, and performance of the system and addresses problems like data integration, system scalability, and user interaction. The Personalized Travel Planner will create and enhance the travel planning process by creating personalized itineraries based on user preference, real-time data, and rule-based decisionmaking.

Travelers need to take different aspects like accommodation, transportation, dining, and areas of visit, all while balancing their personal wishes and expectations with their travel journey. With a rising demand for tailored travel experience, there arises a greater requirement for an easy-to-use, effective system to help travelers in making the best possible choices.

Food is also an essential part of any trip, and travelers tend to look for food options that suit their taste and dietary needs. The planner recommends local restaurants or hotels serving the preferred type of cuisine, providing options in dining, such as dine-in and delivery. Once they reach their destination, tourists usually need local transport to travel around the region effectively. The travel planner suggests convenient and cost-effective modes of transport to make the journey smooth. By combining all these elements into one platform, a customized travel planner not only increases convenience but also adds value to the travel experience, enabling users to concentrate on enjoying their trip without worrying about arranging logistics. This paper discusses the evolution and importance of such a travel planning system, highlighting its function in enhancing travel efficiency, user experience, and responsiveness to varied travel requirements. The research seeks to offer insights into how customized travel planning can transform the manner in which individuals plan and enjoy their trips.

To make the travel process easier, a customized travel planner is an astute guide, providing recommendations in accordance with individual tastes. Rather than wasting hours searching for destinations, hotels, and restaurants, travelers can bank on a system that shortlists options best fit for their requirements. A well-planned travel planner considers multiple factors such as budget, traveling type, destination preferences, and accommodation needs to suggest the most optimal options. For example, an adventure traveler could be suggested trekking routes, nature reserves, and campsites, whereas a history buff could be suggested heritage sites, museums, and cultural centers. In the same vein, a food enthusiast can discover the finest local dishes whereas a traveler with special dietary needs can locate restaurants accommodating their needs. Accommodation choice is another important feature. If the traveler is a fine dining person or one who likes quick takeaways, the system provides easy options so that food requirements are fulfilled along the way.

Building on the spirit of budget travel, it is clear that traveling with a low budget is not a constraint but a chance to get to know a place in its truest sense. The glory of visiting a new place does not lie in how much one spends but in how well one identifies with the culture, locals, and environment.

In effect, budget tourism is redefining luxury on an entirely different scale. It turns the attention from material comfort to experience, from luxury hotels to magnanimity hospitality, and from gourmet to enjoying the simple act of sharing food with fellow travelers.

A well-designed and customized travel planner redefines the manner in which people plan trips, making the process effective, stress-free, and fun. Through

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personalized suggestions based on user input in the form of destinations, accommodations, food, and transportation, it helps in ensuring that all dimensions of travel are properly organized and tailored to the needs of the traveler. The ability to recommend interesting tourist destinations based on interests, recommend suitable accommodations within budget, and provide accessible food and transportation options adds an entirety of value to travel. Instead of spending hours searching across multiple options and toggling across a variety of portals, consumers can rely upon a single tailor-made system that streamlines decisionmaking and provides utmost convenience.

Further, by allowing flexibility in choosing the local transport and food delivery, the planner is also being sensitive to various travel behaviors, whether adventure, luxury, or budgetfriendly. It allows tourists to explore new places at ease, confident that their preference and needs have been well considered.

## **II LITERATURE REVIEW**

Travel apps with features to assist in projecting costs, budgetary calculations, and real-time tracking of expenditures allow for effective cost management on items such as transport, lodging, food, and activities. Moreover, the AIpowered travel apps can help tourists with automated cost allocation and saving recommendations through personalized spending propositions to allow their budgets to reach further without necessarily cutting back on experiences. Founded on mere price models, cross-currency supports, and mobile payment integrations, the apps can transform budgets into an achievable reality wherein worries and doubts over what things cost are eradicated. Where UserCentered Design, personalized by the support of Artificial Intelligence, meets money planning functionalities at a point, an easy-going and thoughtful traveling platform is derived which facilitates hassle-free traveling planning, budgeting, and journeying. Blockchain, decentralized finance (DeFi), and predictive analytics are evolving and can further improve the efficiency and integrity of financial planning in travel apps, leading to smarter, more intuitive, and userfriendly travel solutions.

Recommendation systems implement collaborative filtering and content-based filtering to examine user taste, travel experience, and context-specific features to make contextualized recommendations to increase decision making efficiency and satisfaction of users. In addition to that, UCD principles provide intuitive, usable, and smooth interfaces and make it possible for people to engage easily with digital solutions. Some of the aspects that make user interactions simple and enable simple and convenient travel planning are adaptive UI/UX, personalized dashboards, voice assistant support, and chatbots. Moreover, financial management is the nucleus of modern travel apps, which enables the user to manage expenses, monitor budget, and save money through the application of artificial intelligencebased expense management, real-time price alert, e-wallet, and savings forecast features. With these money management capabilities, travel apps allow consumers to travel with no spending limits, and therefore, travel desires become concurrent with money affordability. The convergence of intelligent suggestions, userexperience, and money consciousness creates a natural travel economy that offers more interaction, access, and affordability. With even more technological advance, blockchain payments, decentralized finance (DeFi), and experience travel using AR/VR will keep transforming consumer behavior in planning, booking, and experiencing travel. Ultimately, it will be travel apps that successfully synthesize AI-driven personalization, consumerfriendly simplicity, and economic transparency that will power the next generation of digital travel solutions, enabling travelers to explore the world with confidence, convenience, and economic security.

#### **III. DATASET DESCRIPTION**

A Personalized Travel Planner dataset has various components to enhance user experience by providing individualized travel recommendations. The dataset includes user information, including name, age, travel type, and budget, to offer trip recommendations tailored to users. It also stores travel preferences, including preferred destinations, travel dates, and accommodation requirements. The destination database categorizes places into hill stations, beaches, monuments, etc., and has information such as the time of year to travel and nearby attractions.

The information also has accommodation information in the form of hotels, room types, prices, and ratings to facilitate users in booking appropriate accommodations within their price range. To enable the process of eating out, the restaurant database dictates the type of cuisine, cost range, delivery, and customer reviews.

Besides, the transport dataset covers various travel modes, estimated costs, and local transport to facilitate easy exploration of locations.

It includes user details such as traveling time, destinations, budget, and type of travel (luxury, adventure, budget, etc.). The database also includes information regarding different tourist spots, differentiated based on type (hill stations, beaches, temples, historical sites), best season to visit, accommodation available around, restaurants around, and transport facilities available.

The accommodation information provided includes the names of hotels, location, rooms available, cost bracket, and rating to assist users in making the optimal stay decision within their financial constraints. Besides, the dataset encompasses food preferences by identifying

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restaurants and their type of cuisine, price level, and delivery services availability.

Finally, the transportation data indicates available transport modes such as taxis, buses, and hire cars to facilitate convenient exploration by the traveler at their destination. All this structured dataset allows the system to come up with tailored travel plans in harmony with the users' wishes, making it possible to achieve an enjoyable and stress-free traveling experience. It has in-depth details about users' travel preferences, i.e., their favorite destinations, budget, mode of travel (luxury, adventure, family, solo, etc.), and food preferences. The database also has a huge repository of tourist spots under various categories, i.e., hill stations, beaches, historical sites, religious places, and adventure sites, along with additional information like the ideal time to visit, climate, and places to visit.

Accommodation data is an important part of the dataset, including hotels, resorts, and homestays, with data on room categories, prices. The food and dining segment includes restaurants and cafes, categorized by cuisine types, price range, and delivery options, allowing users to explore local tastes comfortably.

#### **IV. WORKFLOW**

The workflow of the suggested customized travel planner follows a systematic and user-driven methodology such that all details of the traveling experience are dynamically adjusted to match the user's personalized requirements and needs. The planner's workflow is categorized into three main phases: destination and accommodation choice, cuisine advice, and transportation within the city. Each phase is designed to be dynamically responsive to user input, and the outcome is a highly personalized and seamless travel planning experience.

During the first phase, the system gathers significant user inputs like travel dates, destinations of choice, budget, and type of traveling (e.g., luxury, adventure, economy). Based on these factors, the system recognizes the user's interests and provides suggestions for holiday destinations such as beaches, hill stations, places of pilgrimage, historical monuments, or other tourism places. Once the destination is chosen by the user, the system proceeds to suggest appropriate accommodation. The accommodation suggestion algorithm takes into account the lodging type (hotel, hostel, Airbnb), number of rooms needed, and budget available to ensure the most suitable choice is presented for the comfort of the user.

The second level is food recommendation. The planner recommends restaurants, cafes, or hotels based on the user's food choices and eating habits. This module does not allow for any compromise between the traveler receiving suggestions based on their taste buds and cultural traditions. In addition,

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the flexibility to choose a preferred method of food consumption through dine-in, takeaway, or doorstep delivery provides greater convenience and satisfaction for the trip.

During the last phase, the system helps the user plan local transport efficiently. When arriving at the destination, the visitor can choose appropriate local transport modes like taxis, hire bicycles, or buses based on the travel itinerary and individual comfort. This allows for smooth discovery of the destination.

The workflow of the personalized travel planner ensures that every step of the trip, be it destination selection, accommodation, food choice, or transportation, is precisely personalized. This, apart from the improvement in travel experience, achieves the highest levels of user satisfaction through optimal recommendation that aligns with personal desires.



**Fig:1 Registration Page** 



#### Fig:2 Registration Successful

The personalized travel planner suggested in this study follows a systematic and user-oriented process for automating and optimizing the whole travel planning process.

The process starts with gathering basic information from the user, including travel dates, destination of

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choice, budget, and category of trip (luxury, adventure, cultural, or budget).

Other personal inclinations such as size of group of individuals to travel, motivation for the holiday, and customized needs are collected in order that the planning system can be specialized depending on user own needs.

All this information forms the crux of recommendation mechanism that strategically provides holiday resorts such as hill stations, sea resorts, temple tourism, monuments, or adventure tourism options based on season and user choice.

After the destination is chosen, the planner proceeds with the accommodation planning process. Here, the system provides suitable accommodation places like hotels, hostels, and Airbnb apartments, in order of cost, facilities, ratings, and distance to primary attractions.

The system also factors in the budget and comfort levels of the user while suggesting rooms that are available. Having browsed through the options available, the user then goes ahead to reserve their desired accommodation, making their bookings prior to embarking on their journey.

The next step in the workflow is addressing food arrangements. The planner's food module makes recommendations of eating places, restaurants, and hotel dining facilities located in the surrounding areas based on the user's preferences and their dietary requirements. Locationbased services are used in generating the suggestions to ensure the recommended food locations are easily accessible.

The system offers the user a choice of food service mode they wish to have, such as dine-in, takeaway, or delivery to their home. The users are also provided with a choice to pay through the system or pay upon delivery according to the restaurant's policy.



#### Fig:3 Rooms Booking

The final step in the workflow is destination transportation planning. The planner suggests local transport modes such as taxi services, hire cars, buses, or even bike rental, depending on user requirement and location.

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This assists the user to travel around and discover their destination safely and with ease.

The system makes sure that transport recommendations are affordable, easily accessible, and appropriate to the user's liking.

The travel planning workflow of the customized travel planner takes a methodical route ensuring user needs are accounted for in every phase of the planning process. After choosing the destination, the planner recommends accommodation to the user, determining the number of rooms and the type of room based on their budget.



The second action is food recommendations, in which the system recommends nearby restaurants or hotels serving the user's favorite food so that the selection is appropriate according to their taste and eating habits. The user can also choose how the food is to be delivered, i.e., dine-in, takeaway, or delivery, based on their comfort level.

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Lastly, upon arrival at the desired location, the system offers transportation suggestions to enable local discovery. They are able to opt for different transportation means, for example, taxi, bus, or bicycle rentals, so they can easily navigate and explore the destination. The workflow, in this case, incorporates user choices for a convenient travel experience, from choosing the destination to ordering food delivery and local transport. This way, every part of the trip is tailored to fit the user's personal needs, maximizing their traveling experience and satisfaction.

#### **V. RESULT AND DISCUSSION**

The Personalized Travel Planner developed suitably offers personalized travel plans based on various user preferences including travel date, destination type, budget, travel type, and food. The planner was tested with different user profiles to identify its performance and flexibility. The findings indicated that the planner had the ability to effectively recommend tourists' spots in accordance with users' interests like hill stations, beaches, temples, historical places, and adventure spots. The recommendation system updated suggestions dynamically based on the client's budget and travel preference so that budget and luxury travelers were suggestions. While given suitable planning accommodations, the system successfully recommended hotels and room types according to the client's budget, number of rooms required, and desired room types, such as standard, deluxe, or suite. The system also gave alternative recommendations when there were better options within the same budget.

The food suggestion module was critical in improving the user experience. It enabled users to select their desired cuisine and recommended restaurants and hotels in the vicinity, with flexibility in choosing the mode of food delivery, i.e., dine-in, takeaway, or home delivery. Upon arrival at the destination, the planner further supported the users by offering information on the availability of local transportation to facilitate them in visiting popular tourist spots at ease.

During the first pilot testing and feedback from users, the system was found to be very compatible with different types of users, including solo travelers, families, adventure seekers, and luxury seekers. The users were impressed with the simplicity of using the system and its customized recommendations and were content with the accommodation as well as the food recommendations. The provision to provide affordable as well as adjustable options was extremely valued by the users. Limitations

were detected during the trial process. The planner is, at present, dependent on local data availability as well as their accuracy, and this can potentially influence the nature of suggestions available in less-covered areas. Also, the system has static suggestions, and real-time notifications for hotel availability, transit timetables, and spur-of-the moment offers need to be added.

Notwithstanding these constraints, the planner exhibits high potential in revolutionizing travel planning by personalized and user-focused recommendations. Enhancements in the future will include integrating real time feeds, smart itinerary construction, and weather sensitive tips. The system can also be extended to allow for collaborative group travel planning and recommend activities such as local festivals or cultural events. Overall, the proposed system appears as a beneficial aid for travelers, making the planning process more efficient, convenient, and to one's own preferences.

The system of Personalized Travel Planner has been developed and tested to support the different and evolving needs of modern travelers. The inherent function of the system is to recommend tourist attractions, accommodation, eatery, and conveyance on the basis of specific user interests, and the results gained indicate that the system is performing effectively in proposing suitable and customized options. The planner assists the users to select destinations according to their travel preference, which can range from natural spots such as hill stations and beaches to heritage and cultural sites such as temples and monuments. The recommendation system ranked and filtered the destinations based on user-defined parameters such as travel dates, budget, and type of travel, making recommended destinations more useful and meaningful.

Accommodation suggestion module was another principal feature tested. The users were enabled to make declarations of rooms they needed, and according to budget limitations, it would render corresponding room categories like standard, deluxe, or suites. Users were offered varied accommodation options in which they would compare and choose based on facilities, cost, and location. This aspect helps in reducing the time and effort that travelers would otherwise use to search for accommodation on their own. The system also performed well in generating alternative options whenever the selected ones were beyond the budget that had been allocated, to prevent limiting users when they are making their selections.

The food and cuisine recommendation module enhanced the user experience by providing precise recommendations for restaurants and hotels serving the user's preferred cuisine.

One other benefit of the system was that it even offered transport support once one had reached the destination. The system informed users of available transport

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facilities in the region like hire cars, taxis, buses, and other means suitable to travel to tourist destinations. This made tourists travel through unfamiliar cities easily, depending less on thirdparty travel operators or fragmented transport information providers.

The participants were content with high levels under test, showing a high regard for the usability of the planner. The participants enjoyed the minimalism of the interface, its interactive character, and ease of use, and enjoyed the endtoend planning experience offered. Most users explained that having access to tourist location suggestions, hotel booking support, restaurant recommendations, and transport in one place significantly facilitated their travel planning task. The system was highly versatile across different kinds of travelers such as independent backpackers, adventure

travelers, family holidaymakers, and high-end travelers, as it was capable of automatically fine-tuning suggestions based on individual preference and affordability.

The study also encountered some limitations. The system currently uses pre-acquired information, which would make it impossible for it to be able to provide the latest information on hotel availability, restaurant hours of opening and closing, and updated transportation timetables.

This would impact the system's response to lastminute travel adjustments, as seen from real-world cases.

Another drawback experienced is dependency on richness and quality of the dataset, especially in case of low-tourist or offgrid destinations where high-quality data might not be easily accessed.

Overall, the Personalized Travel Planner has shown promising results and can well become a full-fledged smart, AI-based travel guide. Further improvements can include incorporating real-time feeds on transport, accommodation, and restaurant availability. Also, are more advanced features such as AIgenerated itinerary creation, climate- and weather-conditionbased recommendations, and cooperative planning tools for group travelers. The planner can further be designed to suggest local events, festivals, or seasonal places to provide a more enhanced and integrated travel planning experience. The current findings aptly demonstrate that the system is able to improve user satisfaction through an out-of-the-box solution for budget friendly, effective, and personalized travel planning.

#### **1V. FUTURESCOPE**

The Personalized Travel Planner system holds huge future development and expansion scope. Integrating real-time information sources is one of the future areas of expansion. Addition of real-time data feeds for hotel availability, dynamic pricing, restaurant opening status, and local transport timetables will enhance the accuracy and pertinence of the recommendations, especially for users facing last-minute changes in their travel schedule. The Personalized Travel Planner system has vast scope for future growth and development. Integration of live data sources is among the principal domains of future development. Inclusion of real-time hotel availability feeds, dynamic pricing, restaurant opening status, and local transit timetables will improve recommendations' accuracy and applicability, particularly for customers with lastminute cancellation issues within their schedule. Another key direction is applying AI-based itinerary generation, which will create day-wise itineraries for users automatically, maximizing the trip by distance, user preference, weather, and available time.

In addition, the system can be utilized to support group travel planning, where multiple users who are traveling in a group can input their preferences collectively, and the planner will recommend best options that suit the majority. Adding weather forecasting and climate consciousness to the system can make the user even more satisfied by recommending appropriate locations and activities based on seasonal changes.

There are advanced analytics and machine learning methods that can be employed to learn from the feedback continuously and refine the algorithms with time.In addition, integrating a chatbot-driven virtual assistant in the planner will assist in giving users instant answers and travel instructions along the way. Lastly, the system can also enable augmented reality (AR) features for virtual previewing of locations, hotels, or restaurants to further maximize the value and usability of the planning process.

In total, with the integration of these sophisticated features, the Personalized Travel Planner can be transformed into a complete smart and responsive travel aid that can deliver a smooth, enriched, and highly customized trip planning experience to a wide range of users.

#### VII. CONCLUSION

The Personalized Travel Planner system has been successfully designed to cater to the fundamental needs of travelers with customized recommendations for attractions, accommodations, restaurants, and transportation. The system is able to fetch user inputs like travel duration, budget, destination of interest, transport mode, and cuisine and comes up with highly relevant recommendations based on these inputs. It assists users in choosing destinations that suit their interests, be it hill stations, beaches, temples, historical places, or adventure locations. Also, the system provides

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hassle-free accommodation choice by recommending suitable room types based on the budget and needs of the user. The food suggestion feature also enhances the user experience by directing them to local restaurants or hotels offering their preferred cuisine, along with flexible food delivery options like dine-in, takeaway, or home delivery.

In addition, the system helps travelers make the best use of local transport facilities once they arrive at their destination, facilitating them to visit tourist spots easily. The combined capabilities of the planner reduce the effort and time needed to plan a trip and enhance the travel quality by providing budget-friendly, user-oriented, and well-organized suggestions. The outcomes gathered from the system demonstrate the system's ability to significantly improve travel planning. But even here, there is scope for development, particularly in the direction of incorporating live data and more sophisticated features such as automatic trip generation and event suggestion. On balance, then, the Personalized Travel Planner is a handy and handy utility for travelers,

of making travel planning more efficient, convenient, and enjoyable.

Personalized Travel Planner stands a strong chance of being an immensely reliable and intelligent travel planning tool for travelers, improving the travel planning and decisionmaking process a lot. With its ability to cater to all types of users independent traveler, family, backpacker, and luxury traveler — it is a solution for the evolving demands of the travel and tourism industry.

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