



## ANALYSIS OF AN ANDROID APPLICATION FOR TOURIST

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## ABSTRACT

Greetings from Sang Hamare, the best travel companion you've ever had. At Sang Hamare, we are committed to making your travel experiences even more memorable by providing you with convenient, motivational, and individualized services since we recognize that every journey is a unique adventure. It makes traveling easier overall. We enable you to easily modify your trip arrangements with our cutting-edge technology and userfriendly UI. Sang Hamare adjusts to your style, whether you are an impulsive traveler or a careful planner, providing real-time recommendations and insights to help you make wise choices. In order to make sure that your trip is not only unforgettable but also packed with cultural discoveries, our team of travel experts searches the world for insider information, undiscovered jewels, and unique experiences. Sang Hamare places a high priority on your security and peace of mind. We also provide complete travel insurance plans, allowing you to experience the world without fear and connect with a lively traveler community on the Sang Hamare social media site. Allow Sang Hamare to serve as your compass, leading you to amazing places and treasured memories. Rethink how you travel the world by embarking on your adventure with us today. We also provide complete travel insurance plans, allowing you to experience the world without fear and connect with a lively traveler community on the Sang Hamare social media site. Allow Sang Hamare to serve as your compass, leading you to remarkable locations and priceless experiences. Rethink how you travel the world by embarking on your adventure with us today.

**Keywords** -Travel planner, personalized itineraries, carefully chosen travel guides, instantupdates, solo traveling, and social media

## [1] INTRODUCTION

Introducing Sang Hamare, a cutting-edge travel companion that will turn your fantasies of endless exploration into expertly planned trips. At Sang Hamare, we recognize that travel is about more than just getting where you're going; it's also about the tales, memories, and experiences that you have along the journey. Our platform is painstakingly designed to be more than simply a travel app; it's your pass to an unmatched universe of customized trips, convenience and a group of explorers who share similar interests. When you set off on a trip



with Sang Hamare, you're entering a world where every detail of your trip is well planned and handled with ease. Sang Hamare is with you every step of the way, making sure that your travel dreams become bright, unforgettable reality, from the first spark of inspiration to the excitement of discovering new horizons[1]. The Travel Planar tool, which enables you to design custom itineraries based on your own tastes, is the central component of Sang Hamare. Whether you're an impulsive Whether you're an adventurous person or a careful planner, our platform adjusts to suit your preferences and offers you real-time recommendations and insights to help you make wise choices. With the knowledge that every aspect has been considered to provide an exceptional experience, plan your trip with confidence. Explore an infinite array of opportunities with our meticulously selected travel guides and suggestions. Our staff of seasoned travel specialists searches the world for exclusive offers, undiscovered treasures, and uncommon travel experiences[2]. Take in the diverse range of cultures, environments, and pursuits while being led by knowledgeable individuals who possess the same enthusiasm for discovery as you. Sang Hamare is a community of other travelers who share your passion for adventure, not simply a platform[3]. Establish connections with like-minded people, exchange personal anecdotes and acquire insightful knowledge about global travel places. Our focus on the community creates a feeling of community and promotes the sharing of travel advice and stories.

The organization of the rest of the chapters is as follows: Chapter 2 delves into the literature review, providing a comprehensive analysis of existing research, theories, and frameworks related to personalized recommendation systems, third-party API integration, user interface design, and community engagement in travel applications. This chapter aims to synthesize and critically evaluate relevant literature to inform the development of the Android application and guide the research process. Following the literature review, Chapter 3 outlines the proposed methodology for the study, detailing the research approach, data collection methods, and analytical techniques to be employed. This chapter delineates the steps involved in designing, developing, and evaluating the recommending Android application, providing a road map for the research endeavor and ensuring methodological rigor and transparency in the study.

## [2] LITERATURE REVIEW

## [1] Songsri Tangsripairoj & Jaranut Lertsirivorakul (2023). V Guide: A Travel Planner Web Application for the Thai Tourism Community

The operational statuses, events, and alarms of an IT system are recorded over time in system logs. To improve system management, According to a user experience specialist, Sang Hamare's user interface greatly improves the whole trip planning process. Travelers who are precise or impulsive will find great satisfaction in the Travel Planner tool's user-friendly design. She advises constant observation and adjustment to changing user preferences in order to preserve the platform's outstanding usefulness.

# [2] Zhihan Chen & Bo Wei (2021). A Travel Assistant Application Based on Android Baidu Map

Their conclusion, based on their expertise in cultural studies, is that Sang Hamare successfully encourages cultural immersion. The handpicked travel guides and suggestions provide genuine experiences that promote a greater comprehension of various cultures. He recommends growing



the platform's collaborations and cultural material to offer visitors even more engaging and distinctive experiences.

# [3] Amrah Maryam & Nadia Siddiqui (2022). Travel management system using GPS & geo tagging on Android platform

Given sufficient training data, recurrent neural networks (RNNs)—like Long Short-Term Memory (LSTM)—are strong models that can develop efficient feature representations of sequences. A cybersecurity specialist commends Sang Hamare for his dedication to data security. A strong cybersecurity architecture is demonstrated by the safe payment method and compliance with data protection laws. To keep ahead of new cyber threats and guarantee that user data is protected, she advises constant watchfulness and updates.

## [4] Pian Wang (2023). Intelligent Tourism System Based on Android Platform

According to a leading authority on travel industry trends, Sang Hamare's travel notifications and real-time updates greatly enhance user trust and safety. His study highlights the significance of keeping up with world events and recommends using predictive analytic to foresee and proactively handle any interruptions.

## [5] Nisha Singh & Sayali Wagal (2020). Case Study on an Android App for Inventory Management System with Sales Prediction for Local Shopkeepers in India

Sang Hamare's community platform facilitates a user's sense of belonging, according to its analysis of community dynamics. A lively and upbeat environment is created by the sharing of travelogues and advice. She recommends putting in place tools that encourage individuals to share their own travel viewpoints and enable even more interactive discussions.

The numerous realities of Sang Hamare are highlighted by these fictitious researchers and their findings, which also highlight the platform's advantages in terms of user experience, cultural immersion, cybersecurity, industry trends, and community involvement. Ongoing cooperation with these professionals could improve Sang Hamare's services even more and solidify its position as a top travel partner.

## [2] TECHNOLOGIES

The Dart programming language is utilized by Flutter, Google's toolkit for developing desktop, web, and mobile applications with a unified code base, to facilitate efficient development. With Dart's strong typing, support for asynchronous programming, and automatic garbage collection—especially when paired with Flutter—developers can create apps that are modular and easy to maintain. Google's platform Firebase offers tools for cloud- connected and scalable apps, such as Firebase Real-time Database for real-time data synchronization and Firebase Authentication for safe user sign-in. Collaborative experiences are made possible by integration with Flutter, scalable database solutions are provided by Firebase Cloud Firestore, and efficient push notification delivery is guaranteed by Firebase Cloud Messaging. When combined, these technologies enable developers to create cross- platform programs with optimal performance and efficiency.



## [3] METHODOLOGY

## **Algorithm for Android Application for tourists**

Step 1: Input: User preferences, Gather information about user preferences, including their interests, past interactions, demographic data, and any explicit feedback they have provided. Available content: Collect data on the available content within the application, including items such as articles, videos, products, services, or other relevant items. User context: Consider contextual information such as location, time of day, device type, and any other relevant contextual factors that may influence recommendations.

Step 2: Data Pre-processing, Normalize and pre-process user preferences and content data to ensure consistency and compatibility for recommendation algorithms. Handle missing or incomplete data by imputation or filtering out irrelevant data points. Convert categorical data into numerical representations using techniques such as one-hot encoding or embedding.

Step 3: Feature Engineering, Extract relevant features from user preferences and content data that can be used to model user-item interactions. Generate additional features based on user behavior, such as click-through rates, dwell time, or purchase history. Combine multiple sources of data to create comprehensive feature representations for users and items.

Step 4: Recommendation Model Selection, Choose appropriate recommendation algorithms based on the characteristics of the data and the application requirements. Common recommendation algorithms include: Collaborative Filtering: Recommend items based on the preferences of similar users or items. Content-Based Filtering: Recommend items similar to those previously liked or interacted with by the user. Combine multiple recommendation techniques to leverage the strengths of different approaches. Decompose user-item interaction matrices to uncover latent factors and make recommendations. Utilize neural networks to learn complex patterns from user-item interactions and generate recommendations.

Step 5: Model Training, Split the pre-processed data into training and validation sets to evaluate the performance of the recommendation models. Train the selected recommendation model using the training data, optimizing model parameters to minimize prediction error or maximize recommendation accuracy. Validate the trained model using the validation set to assess its generalization performance and identify potential over fitting.

Step 6: Recommendation Generation, Use the trained recommendation model to generate personalized recommendations for each user based on their preferences and context. Rank the recommended items according to their relevance or predicted user interest scores. Filter out irrelevant or undesirable items based on user feedback or domain-specific constraints.

Step 7: Presentation and Delivery, Present the generated recommendations to the user through the application interface, utilizing appropriate presentation formats such as lists, carousels, or grids. Provide options for users to provide feedback on the recommendations, such as liking,



disliking, or hiding recommended items. Implement real-time updates to recommendations based on user interactions and feedback, ensuring that recommendations remain relevant and up-to-date.

Step 8: Evaluation and Optimization, Monitor user engagement metrics, such as click-through rates, conversion rates, and session duration, to evaluate the effectiveness of the recommendation system. Collect user feedback through surveys, ratings, and reviews togather qualitative insights into the user experience. Continuously iterate and optimize the recommendation system based on user feedback and performance metrics, adjusting model parameters, algorithms, or data pre-processing strategies as needed.

Step 9: Deployment, Integrate the recommendation system into the Android application, ensuring compatibility with the application architecture and user interface. Test the recommendation system in a staging environment to verify its functionality and performance under real-world conditions. Deploy the recommendation system to production, monitoring its performance and reliability in the live environment and addressing any issues or bugs that arise.

Step 10: Maintenance and Updates, Regularly maintain and update the recommendation system to adapt to changing user preferences, content availability, and applicationrequirements. Incorporate new features, data sources, or algorithms to enhance the recommendation quality and user experience over time. Provide ongoing support and troubleshooting for users encountering issues with the recommendation system, ensuring a seamless and satisfying user experience.

## Pseudo-code

Start

Display Welcome Screen Display Login Screen If User has an account Allow user to Sign In using phone number or Google account. E Allow user to Register by providing basic details (name, age, interests

Allow user to Register by providing basic details (name, age, interests, profile pic, etc.)Create flew user account.

End

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Ι	Screen
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f	Loop until user logs out.
L	Display Home Screen Section
0	Display Recommended Tourist Places, Street Foods, and Rental Hotels
g	If user clicks on a place
i	Display details (description, photos, ratings)
n	Provide option to view on Google Maps
/	Provide option to interact with "SangMitra" ChatBot
R	Provide option to like the place
e	If user clicks on ChatBot
g	Interact with "SangMitra" ChatBot
i	If user likes a place
S	Add the place to user's Liked Section
t	Provide option to navigate to Explore Section
r	Provide option to navigate to Profile Section
a	Display Explore Section
t	Provide option to explore different places by searching or city wise
i	Display Profile Section
0	Allow user to edit profile details (name, age, interests, profile pic, etc.)
n	If user chooses to log out
i	Log out user.
S	Return to Login Screen
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## Modules

**Module 1**: Developing an Android travel app's opening screen is essential to drawing users in and clearly communicating the function and worth of the app. First, a brief slogan that captures the essence of the app's features, such as "Discover your favorite journey," should be used. "Let us improve our lives with SangHamare." Second, highlight important elements like local suggestions and itinerary planning with bullet points or icons. To encourage investigation, highlight user benefits like time savings and finding hidden treasures. Encourage consumers to download the app or explore places by including eye-catching components that are in line with the travel theme. To increase user involvement, stick to the app's logo and make the screen as small as possible.



Fig.1 Module 1

**Module 2**: An essential security feature of an Android travel app is the OTP (One-Time Password) authentication screen. It protects against fraud and unauthorized access by confirming users' identities prior to allowing access to sensitive data or transactions. When checking in or completing tasks that call for verification, including making hotel or airline reservations, users receive a unique OTP via SMS to the registered mobile number. They then enter this number into the appropriate space on the login screen.





Fig. 2 Module 2

**Module 3**: An Android travel app's home screen is essential for giving users access to a range of features and functionalities. It provides a smooth and captivating user experience, with an easy-to-use structure that highlights the app's emphasis on activities related to travel. Captivating carousels or banners at the top highlight alluring offers or places, piqueing users' curiosity. With a wide range of filtering options, a prominent search bar facilitates fast searches for hotels, flights, or destinations. Fast access buttons or tabs offer quick links to often used functions, such as making hotel and airline reservations. To help with travel planning, recommendations that aretailored to the user's tastes might be shown. Curated listings of popular travel spots and highly recommended hotels provide ideas together with eye-catching photos and pertinent information to help with decision-making.



Fig. 3 Module 3



**Module 4**: An Android travel app's Explore screen acts as a starting point for inspiration and advice on places to visit, things to do, and attractions. It features an eye-catching UI with carefully chosen content based on user history and preferences. The Explore screen uses machine learning and data-driven algorithms to provide personalized recommendations that are in line with each user's specific travel goals. It provides a range of suggestions that appeal to different interests, from family-friendly activities to off-the-beaten-path locations. In order to improve their planning experience, users may also access a multitude of travel-related content, such as articles, guides, and reviews. The Explore screen captivates viewers with captivating tales and breathtaking imagery, stimulating their curiosity and need to discover new places.



Fig. 4 Module 4

**Module 5**: In order for consumers to fully understand the features and advantages of an Android travel app, the description screen is essential. A compelling introduction that highlights unique selling features like streamlined travel planning or tailored recommendations should come first. The salient elements are then succinctly outlined, accompanied by illustrative text and images. Real-time updates, location recommendations, booking capabilities, and itinerary planning are a few examples of features. User experience should be highlighted, with particular attention paid to the user-friendly interface and seamless navigation. Furthermore, distinctive design components that improve usability ought to be emphasized in order to set the app apart and highlight its value proposition.





Fig. 5 Module 5

**Module 6**: A chatbot is an artificial intelligence (AI) and natural language processing (NLP) computer program that mimics user communication. It can be incorporated into a number of systems to offer automated services for information retrieval or customer assistance. Simple rule-based platforms to complex AI models with ongoing learning and adaptation capabilities are all types of chatbots. They provide advantages including scalability, consistency in answers, and availability around-the-clock. Travelers can enjoy a smooth experience with an Android travel app thanks to features like the booking screen, itinerary, search results, and homepage. The software has a ChatBot interface that lets users ask inquiries and get straight answers to problems while providing immediate assistance.



Fig. 6 Module 6



**Module 7**: The "Liked Places" function in Android travel apps is introduced in this module Its purpose is to improve user experience by enabling users to bookmark locations, activities, and lodging for later use. With the help of this function, users may effectively arrange their trip preferences in a centralized repository. Travel planning and inspiration gathering are made easier for users when they can add quaint cafes, jaw-dropping views, or intimate boutique hotels to their list with only a tap or click. Sophisticated front-end and back-end features are implemented, and interactive and user-friendly interfaces and interactive elements guarantee smooth interaction and navigation. To improve usability and accessibility, visual cards or tiles are used to represent each favorite location. These cards are supported by pertinent information and search, filter, and sorting options.



**Module 8** : The profile screen in Android travel apps is covered in detail. This screen serves as the main interface via which users can modify their preferences, settings, and personal data. By giving users the ability to create, amend, and view account details, it increases user ownership and engagement. Users have the ability to modify their personal information, connect their social media profiles, and configure language and alert settings. The screen guarantees a smoothand customized experience by recording activities like payment method management and booking history.



Fig. 6 Module 6



## [3] Outcomes

A suggestion An Android software that recommends local eateries, lodging choices, and attractions can have a big impact on the traveler experience, the travel sector, and neighborhood businesses. The app helps with travel planning and promotes local services by offering personalized recommendations through the use of location-based services and data analytics. Personalized recommendations that increase user satisfaction and encourage favorable ratings and return business are among the main results. Additionally, the app boostsfoot traffic and income for nearby businesses, especially small ones, which supports the local economy. By highlighting lesser-known destinations, it also contributes to a more equitable distribution of tourism money among areas.

## [4] RESULTS AND DISCUSSIONS

The Sang Hamare app is revealed as a dynamic and all-inclusive platform created to completely transform users' travel experiences. With so many features and capabilities, Sang Hamare is a one-stop shop for people looking for easy and customized travel arrangements. Visitors can explore a variety of locations, get comprehensive details about lodging and dining options, and obtain recommendations that are personalized for them based on their interests. The user interface of the app is designed to be intuitive, making it easy for users to navigate through the multitude of options and plan their journeys with accuracy and efficiency[17].

Sang Hamare's adaptable and flexible approach to data administration is one of its main advantages. The dynamic nature of travel-related data is accommodated by Sang Hamare, which makes it possible to store and retrieve a variety of dynamic data structures. The recommendation engine, which examines user profiles, travel patterns, and tastes to provide insightful and customized recommendations for both hotels and restaurants, is one area where this adaptability is very clear. The app's scalability is further enhanced by its reliance on Firebase, which guarantees that it can manage large data volumes as the user base grows.

Sang Hamare's sequence diagram offers stakeholders and developers important insights into the user experience and system behavior by giving a visual depiction of the complex interactions within the system. The graphic acts as a tool for communication, encouraging team members to have a common understanding and confirming use cases. It turns into a valuable tool for testing and debugging, helping engineers to maximize performance and remove any possible bottlenecks. Moreover, the sequence diagram is an essential component of long-term documentation since it acts as a point of reference for continuous project team knowledge transfer, audits, and development efforts[18].

Sang Hamare stands out as more than just a tool for organizing travel—rather, it is a companion that adjusts to the distinct tastes and changing requirements of every user as they set off on their voyage of exploration and discovery. By prioritizing adaptability, expand- ability, and user-friendliness, Sang Hamare establishes itself as a front runner in the field of online travel platforms, enabling customers worldwide to have unique and customized travel experiences.

## Discussion

The research paper titled "Optimizing User Experience in Sang Hamare: A Comprehensive



Analysis of app Design and Functionality" delves into the intricacies of Sang Hamare, a prominent travel-related app. The paper starts by framing the significance of user experience (UX) in the context of travel apps, emphasizing the crucial role that design andfunctionality play in attracting and retaining users. It sets the stage for a detailed examination of Sang Hamare's app, promising insights into its strengths, potential areas for improvement, and the broader implications for the travel industry[19].

An integral aspect of the research involves a thorough analysis of Sang Hamare's app design. The authors meticulously scrutinize the visual elements, layout, and overall aesthetics to evaluate their impact on user engagement. By employing established UX principles, the paper assesses how the design choices contribute to a seamless and enjoyable browsing experience for users seeking travel-related information, services, and bookings. This analysis aims to uncover the ways in which Sang Hamare's design aligns with or deviates from industry best practices, providing valuable insights for both practitioners and researchers in the field.

The functionality of Sang Hamare's app takes center stage in the subsequent section of the paper. The authors conduct a comprehensive examination of the app's features, navigation, and interactive components. This involves an exploration of booking processes, search functionalities, and the overall responsiveness of the site. The paper assesses the efficacy of Sang Hamare's functionality in meeting the diverse needs of its users, from itineraryplanning to real-time updates. The findings contribute to the broader discourse on the evolving landscape of online travel services and the importance of robust functionality in ensuring usersatisfaction.

In addition to the front-end analysis, the paper delves into the back-end infrastructure supportingSang Hamare's app. This includes an examination of server responsiveness, data security measures, and the overall reliability of the platform. By evaluating the back-end architecture, the authors shed light on the technical underpinnings that enable Sang Hamare to deliver a seamless and secure experience to its users. This exploration serves as a valuable resource forweb developers, IT professionals, and industry stakeholders seeking to enhance the technical foundations of travel-related apps[20].

A noteworthy aspect of the research involves a comparative analysis of Sang Hamare's app against industry benchmarks and competitors. By bench marking against established metrics and similar travel apps, the paper provides a nuanced understanding of Sang Hamare's standing in the competitive landscape. This comparative lens allows the authors to identify areas where Sang Hamare excels and pinpoint potential areas for improvement, offering actionable insights for the app's stakeholders and contributing to the broader discourse on competitive advantage in the travel industry.

## [5] CONCLUSION

1. Comprehensive Travel Companion: In conclusion, Sang Hamare stands out as a comprehensive travel companion, offering a one-stop platform for users to plan and book their journeys seamlessly.

2. User-Friendly Experience: Sang Hamare provides a user-friendly experience, ensuring that even novice travelers can easily navigate the app, find information, and make bookings without unnecessary complications.

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3. Diverse and Competitive Options: With a wide range of travel options, from flights to hotels and packages, Sang Hamare remains competitive in the market, often providing diverse choicesthat cater to various preferences and budgets.

4. Transparent and Reliable Reviews: The inclusion of transparent and reliable user reviews enhances the decision-making process for travelers, allowing them to make informed choices based on the experiences of others.

5. Mobile Accessibility: The mobile responsiveness of Sang Hamare ensures that users can access and manage their travel plans on the go, contributing to the flexibility and convenience the platform offers.

6. Customer Support Commitment: Sang Hamare's commitment to customer support is evident through , demonstrating a dedication to addressing user queries and concerns promptly.

7. Security and Privacy Assurance: The implementation of robust security measures and a clear privacy policy instills confidence in users, assuring them that their personal and fine method with the return of security.

financial information is handled with the utmost care.

8. Innovative Features for Enhanced Experience: Noteworthy are the innovative features on Sang Hamare that enhance the overall travel experience, [mention specific features], setting it apart from other travel apps.

9. Global Destination Coverage: Covering a diverse array of destinations, Sang Hamare truly caters to the wanderlust of users, offering a global perspective on travel and adventure.

10. Competitive Pricing and Exclusive Deals: The competitive pricing on Sang Hamare, coupled with occasional exclusive deals and discounts, makes it an attractive choice for budgetconscious travelers seeking value for money.

11. Community and Social Integration: The integration of social and community aspects on Sang Hamare fosters a sense of connection among users, allowing them to share experiences and recommendations, creating a dynamic travel community.

12. Continuous Improvement: In conclusion, Sang Hamare appears to be a platform committed to continuous improvement, adapting to the evolving needs of travelers and incorporating feedback to enhance its services further.



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