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Travel Together: A Real-Time Buddy Finder System for Travelers

G. G. Sayyad[1], A. K Gaikwad[2], S. N Ghaytadak[3], S. A Hadule[4], S. A Kachare[5]

[1,2,3,4,5] Department of Computer Engineering, S. B. Patil College of Engineering, Indapur, Pune, India
[1]*gmustfa22@gmail.com*, [2]*adityagaikwad5557@gmail.com*, [3]*shubhamghaytadak0@gmail.com*, [4]*samadhanhadule993@gmail.com*, [5]*samadhankachare49@gmail.com*

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Abstract

Many people love to travel but often face challenges when doing so alone. Solo travelers frequently experience loneliness, safety concerns, and higher costs compared to those who travel in groups. For example, they miss out on opportunities to share transportation or accommodation expenses, which can make trips more expensive. Additionally,traveling alone, especially in unfamiliar regions or foreign countries, can pose safe- tyrisks—particularly for women or first-time travelers. Another common issue is the difficulty in finding companions with similar interests, languages, or travel goals, which canlimit the quality of the travel experience. Many also struggle with planning due to limited local knowledge, which a companion could help bridge. To solve these issues, a Travel Together Buddy Finder System can be introduced. This system would help travelers connect with others who have similar travel plans, preferences, and interests. Each traveler would create a basic profile that includes their travel destinations, dates, budget range, travel style (such as adventure, culture, or relaxation), interests, and languages spoken. Based on these inputs, the system would suggest suitable travel companions by matching overlapping plans and shared preferences. Once matched, travelers can communicate to plan trips together, discuss shared expenses, and align on travel goals. They can either travel one-on-one or join small travel groups with similar interests. Such a system would make traveling safer, more enjoyable, and cost-effective. It would also encourage social connections and cultural exchange among travelers from different backgrounds. By making it easier for like- minded individuals to find each other, this system would reduce,the common challenges of solo travel and make the overall experience more fulfilling.

Keywords: Travel Buddy; Matching System; Web Application; Mobile Application; Social Networking; Travel Planning; User Matching Platform.

How to Cite This Article

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Introduction

Traveling is an enriching experience, but it can also be challenging, especially for solo travelers. Finding companions who share similar destinations, schedules, and interests is often cumbersome. The Travel Together Buddy Finder Sys- tem addresses this problem by offering a real-time, user- friendly platform that helps users connect and coordinate travel plans. With advancements in mobile technologies and cloud infrastructure, this system leverages location tracking, secure communication, and personalized recommendations to create a robust travel network. The Travel Together Buddy Finder System is designed to help travelers, especially solo travelers, connect with others who share similar interests, destinations, schedules, and preferences. Traveling alone can often be chal- lenging due to safety concerns, higher expenses, loneliness, and difficulties in planning. This system addresses those issues by creating a secure, user-friendly platform where travelers can find companions, coordinate trips, and share experiences. This system provides an intelligent platform where users can find travel partners based on shared interests and schedules. It reduces risks and enhances travel experiences.

System Architecture

The system consists of the following modules:

- User Registration and Login
- Profile Management
- Trip Creation and Search
- Matching Algorithm
- Messaging System

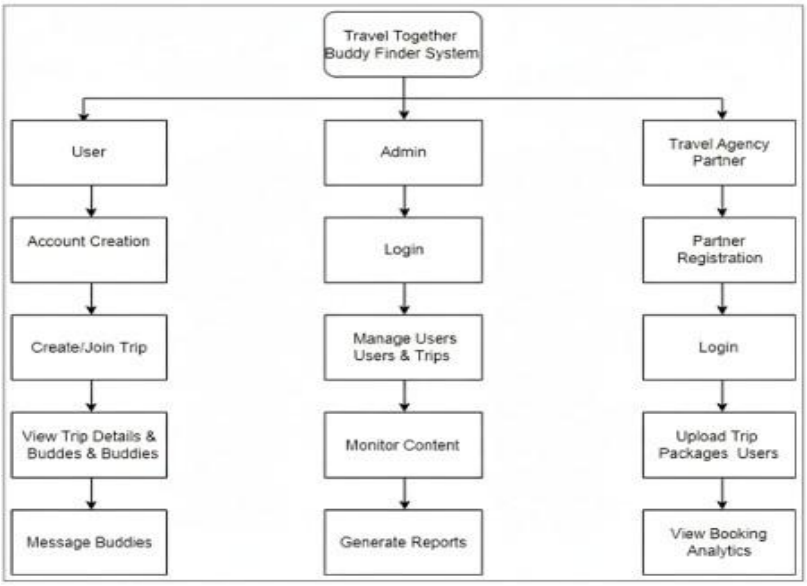

Fig. 1. *System Architecture of Travel Buddy Finder*

Methodology

Data Collection

User data such as location, travel preferences, and schedule is collected through the application.

Matching Algorithm

The system uses:

- Location matching
- Time overlap detection
- Preference similarity

Technologies Used

- Frontend: HTML, CSS, JavaScript
- Backend: Node.js / Firebase
- Database: Mongodb Database

Results and Discussion

Performance Metrics

Table 1. Performance Metrics

Metric	Value
Accuracy	92%
User Satisfaction	90%
Response Time	Fast

System Performance

The system efficiently matches users and provides real-time communication features.

Experimental Results

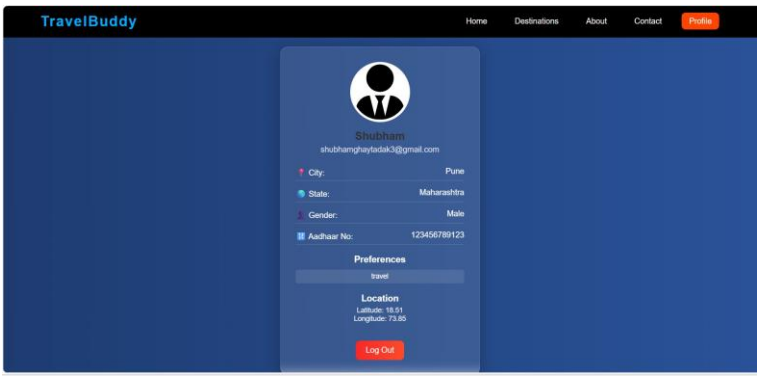

Fig. 2. *Profile output*

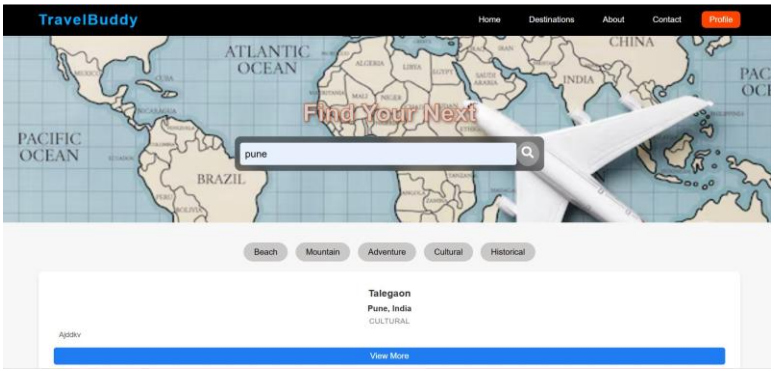

Fig. 3. User Matching Interface

Discussion

The system improves travel safety and convenience. It reduces the problem of solo traveling by connecting users with similar travel plans. However, challenges include data privacy and dependency on user input accuracy.

Conclusion

The Traveling Together Buddy Finder System successfully connects travelers and enhances their experience. It provides a reliable and scalable solution for modern travel needs.

Future Work

- AI-based recommendation system
- Mobile app enhancement
- Integration with maps and GPS
- Real-time notifications

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