



Travelln

An AI travel app that helps plan trips
personally and easily.

User Manual Version 1.0

Group 11 Emerging Technologies

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1. Introduction

Traveling can be thrilling, but planning every detail can feel overwhelming. Our AI-powered travel app is designed to ease that burden, offering users a personalized, efficient, and seamless experience. With features like intelligent itinerary creation, budget tracking, and destination recommendations tailored to each user's preferences, this app makes travel planning a breeze. Whether you're seeking hidden gems, popular attractions, or just the easiest route to get around, our app curates it all, making sure you have a stress-free journey from start to finish.

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1.1 Purpose of the App

- **Simplify Travel Planning:** Streamline the process with automated itinerary creation and customized plans.
- **Personalized Recommendations:** Suggest destinations, activities, and experiences based on user preferences.
- **Smart Budget Management:** Track expenses and suggest budget-friendly options to stay within limits.
- **Time-Saving Convenience:** Minimize planning effort by consolidating everything in one app.
- **Optimize Routes & Schedules:** Ensure efficient travel routes and timing for a hassle-free journey.
- **Enhance Travel Experience:** Provide tailored insights to make trips enjoyable, memorable, and stress-free.

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1.2 Overview of Features

- **Personalized Itinerary Creation:** Automatically generates custom travel plans based on user preferences, interests, and travel goals, making each journey unique and tailored to individual tastes.
- **Smart Budget Management:** Tracks expenses, suggests budget-friendly options, and alerts users to stay on track financially, ensuring stress-free spending without compromising on experiences.

- ❑ **Real-Time Recommendations:** Offers activity, dining, and sightseeing recommendations based on current location, time of day, and weather, so users can make the most of every moment.
- ❑ **Travel Route Optimization:** Plans efficient routes between destinations, minimizing travel time and ensuring that users can visit more places within their itinerary.

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- ❑ **Offline Accessibility:** Provides access to essential travel information and maps even without internet connectivity, making it convenient for users in remote or low-coverage areas.
- ❑ **Seamless Integration with Bookings:** Syncs with booking platforms to manage flights, accommodations, and other reservations in one place, keeping everything organized.
- ❑ **Smart Notifications and Reminders:** Sends timely reminders for upcoming activities, transportation, or reservations, helping users stay on schedule without constant checking.

1.3 Technology Stack

Frontend

- **Frameworks/Libraries:** React Native (cross-platform for iOS and Android) or Flutter for a responsive and native-like user experience.
- **UI/UX Design:** Figma or Adobe XD for prototyping and UI design.
- **Maps Integration:** Google Maps API or Mapbox for location-based services, route planning, and navigation.

2. Backend

- **Backend Framework:** Node.js with Express or Django (Python) for a scalable and efficient backend.
- **Database:**
 - **Relational Database:** PostgreSQL or MySQL for structured data and user information.
 - **NoSQL Database:** MongoDB for handling unstructured data like travel itineraries and preferences.
- **API Development:** RESTful APIs or GraphQL for efficient data communication between frontend and backend.

3. AI and Machine Learning

- **Recommendation Engine:** TensorFlow or PyTorch for personalized recommendation algorithms based on user data and preferences.
- **Natural Language Processing:** Hugging Face Transformers or spaCy for any language based queries or in-app travel-related assistance.
- **Budget Management and Prediction:** Scikit-Learn or TensorFlow for budgeting and expense prediction based on travel history.

4. Cloud Services

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- **Cloud Provider:** AWS, Google Cloud, or Microsoft Azure for hosting, storage, and AI model deployment.
- **Serverless Computing:** AWS Lambda or Google Cloud Functions for handling occasional tasks like notifications or data processing.
- **File Storage:** AWS S3 or Google Cloud Storage for storing images, documents, and offline maps.

5. APIs and Integrations

- **Travel and Booking API:** Amadeus API or Skyscanner API for accessing flight, hotel, and activity data.
- **Currency Conversion:** Exchange Rates API or OpenExchangeRates for real-time currency conversion.
- **Weather Data:** OpenWeatherMap API for real-time weather updates and recommendations based on weather conditions.
- **Payment Gateway:** Stripe or PayPal for handling in-app transactions.

6. Security

- **Authentication:** Firebase Authentication or Auth0 for secure user login.
- **Data Encryption:** AES encryption and SSL/TLS for secure data transmission and storage.
- **Compliance:** GDPR and CCPA compliance for data privacy and protection, especially for international users.

2. Who Should Use This Manual

- ❑ **End Users:** Travelers of all kinds—whether they are solo adventurers, families, or business professionals—who need guidance on how to effectively utilize the app's features for planning and managing their trips.
- ❑ **Travel Agents:** Professionals in the travel industry who can use the app to provide enhanced services to their clients, leveraging its features for itinerary planning and personalized recommendations.

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- ❑ **Customer Support Teams:** Support staff who assist users with inquiries or issues related to the app, needing a comprehensive understanding of its functionalities to provide effective solutions.
- ❑ **Developers and Engineers:** The technical team responsible for maintaining or updating the app, who would benefit from understanding the app's architecture, features, and intended user workflows.
- ❑ **Marketing Teams:** Professionals involved in promoting the app who need to understand its features and benefits to create effective marketing strategies and user engagement content.
- ❑ **UI/UX Designers:** Designers who may be involved in future iterations of the app and need to understand user interactions and feedback to improve usability and user experience.
- ❑ **Trainers and Educators:** Individuals who provide training sessions or workshops for users, helping them understand how to maximize the app's capabilities for their travel needs.

3. Getting Started

Welcome to the AI-powered travel app! This guide will help you set up and navigate the app to make your travel planning seamless and enjoyable.

1. Download the App

- **iOS Users:** Visit the Apple App Store, search for "AI Travel App," and tap "Download."
- **Android Users:** Go to the Google Play Store, search for "AI Travel App," and tap "Install."

2. Create an Account

- Open the app and select "Sign Up."
- Enter your email address, create a password, and follow the prompts to complete the registration process.
- Alternatively, you can sign up using your Google or Facebook account for a quicker setup.

3. Set Up Your Profile

- After signing in, fill in your travel preferences, interests, and budget details. •
- You can also upload a profile picture to personalize your experience.

4. Explore the Dashboard

- Familiarize yourself with the app's main dashboard, which includes:
 - **Trip Planner:** Start planning your next trip.

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- **Recommendations:** Discover personalized destination and activity suggestions.
- **Budget Tracker:** Manage your travel expenses.
- **Settings:** Customize your app preferences.

5. Plan Your Trip

- Select "Trip Planner" from the dashboard.
- Enter your destination, travel dates, and preferences (e.g., activities, budget).
- The app will generate a personalized itinerary, including recommended places to visit, dining options, and activities.

6. Manage Your Budget

- Access the "Budget Tracker" feature to set your total budget for the trip.
- Add planned expenses (flights, accommodations, activities) and monitor your spending to stay within budget.

7. Receive Recommendations

- As you explore, check the "Recommendations" section for real-time suggestions based on your location and preferences.
- Discover nearby attractions, dining options, and events happening during your trip.

8. Get Support

- If you encounter any issues or have questions, visit the "Help" section in the app for FAQs and troubleshooting tips.
- You can also contact customer support via the app for further assistance.

9. Share Your Experience

- After your trip, consider sharing your feedback and experiences through the app. This helps us improve and provide better recommendations for future users.

10. Stay Updated

- Enable notifications to receive updates on travel tips, new features, and personalized offers based on your preferences.



