AI Trip Planner Android App

Prof. Vedankita Mohod[1], Sandhya Masram[2], Kanchan Satpudke[3]
Masters of Computer Application[1,2,3]
KDK College of Engineering Nagpur, Maharashtra, India
vedankitamohod@kdkce.edu.in[1]
sandhyamasram.mca23@kdkce.edu.in[2], kanchansatpudke.mca23@kdkce.edu.in[3]

Abstract: *The AI Trip Planner is an intelligent travel assistant application developed using Flutter (Dart), Java, and Firebase Realtime Database to offer seamless and personalized trip planning experiences. The app leverages a powerful Generative AI model to recommend optimized travel itineraries based on user preferences, destinations, and time constraints. Real- time data integration is achieved using Google Maps APIs to provide live traffic updates, route optimization, and nearby points of interest. In addition to planning assistance, the app includes an SOS feature to ensure user safety by allowing quick emergency communication during travel.*

Users can also explore and book nearby hotels, enhancing both convenience and security. With a focus on intelligent automation, dynamic recommendations, and user-centric design, the AI Trip Planner serves as a comprehensive tool for modern travellers seeking smart and safe journey planning.

Keywords: AI Trip Planner, Flutter, Dart, Java, Firebase Realtime Database, Generative AI, Google Maps API, Real-Time Traffic, Travel Itinerary, Hotel Booking, SOS Feature, Smart Travel Assistant