Koneru Lakshmaiah Education Foundation

(Deemed to be University estd. u/s. 3 of the UGC Act, 1956)
Off-Campus: Bachupally-Gandimaisamma Road, Bowrampet, Hyderabad, Telangana - 500 043.
Phone No: 7815926816, www.klh.edu.in

Project Title:

Trip Link: Plan & Find a Buddy

Abstract:

Trip Link: Plan & Find a Buddy is an AI-powered travel planning application designed to enhance solo travel experiences by integrating intelligent trip planning with a traveler-matching system. The application provides an interactive and user-friendly interface, built using Swing, allowing users to easily plan and manage their trips.

By leveraging the **Gemini API**, **Trip Link** generates personalized itineraries based on user inputs such as destination, budget, and travel dates. These details are securely stored in a **PostgreSQL database** via **JDBC**, enabling users to retrieve and review their plans anytime using a unique trip key. The **clipboard copy feature** makes sharing and accessing trip keys quick and convenient.

One of the standout features is **Solo Traveler Matching**, which allows users to connect with like-minded travelers. If multiple users choose the matching option and share the same destination and travel dates, they are notified and can connect via email. Additionally, the **End Trip & Delete** feature provides users with control over managing their trip details, allowing them to remove unnecessary or outdated information.

By combining **AI-driven trip planning**, **database-backed trip management**, and **social connectivity**, **Trip Link** offers a seamless and engaging way to explore new destinations while finding potential travel companions.

Software and Hardware Requirements:

• Programming Language: Java

• Integrated Development Environment (IDE): Eclipse

• Database: PostgreSQL

• Frameworks: Swing for UI development

• Version Control: Git and GitHub

Processor: Intel Core i3+ RAM: 4 GB minimum

• Hard Disk: 500 MB of free space

Domain

Travel Planning (Object-Oriented Programming, Natural Language Processing, AI Integration)

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Features:

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- Trip Planning UI using Swing
- Gemini API Integration for generating trip plans
- Database Integration with PostgreSQL via JDBC
- Trip Storage & Retrieval using unique keys
- Solo Traveler Matching with email connections
- Clipboard Copy for Trip Key
- End Trip & Delete Feature

Team Members:

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