

Problem Statement 2:-

GlobeTrotter – Empowering Personalized Travel Planning

Overall Vision

The overarching vision for GlobeTrotter is to become a personalized, intelligent, and collaborative platform that transforms the way individuals plan and experience travel. The platform aims to empower users to dream, design, and organize trips with ease by offering an end-to-end travel planning tool that combines flexibility and interactivity.

It envisions a world where users can explore global destinations, visualize their journeys through structured itineraries, make cost-effective decisions, and share their travel plans within a community—making travel planning as exciting as the trip itself.

Mission

The mission for the hackathon team is to build a user-centric, responsive application that simplifies the complexity of planning multi-city travel. The platform should provide travelers with intuitive tools to:

- Add and manage travel stops and durations
- Explore cities and activities of interest
- Estimate trip budgets automatically
- Visualize timelines and plans
- Share trip plans with others

This involves constructing a solution that is both functional and insightful, powered by a well-designed relational database and a smooth frontend experience. Teams must focus on enabling users to organize personalized trips efficiently, stay within budget, and enjoy full visibility of their journey.

Problem Statement

Dashboard

Design and develop a complete travel planning application where users can:

- 🕒 Create customized multi-city itineraries
- 🕒 Assign travel dates, activities, and budgets
- 🕒 Discover activities and destinations through search
- 🕒 Receive cost breakdowns and visual calendars
- 🕒 Share their plans publicly or with friends

The application must demonstrate proper use of relational databases to store and retrieve complex travel data such as user-specific itineraries, stops, activities, and estimated expenses. The system should also support dynamic user interfaces that adapt to each user's trip flow.

Features:

The application for GlobalTrotters will include the following comprehensive set of features, ensuring a rich and user-friendly experience across desktop or mobile platforms:

1. Login / Signup Screen

- **Description:** Entry point of the app allowing users to create or access their account.
 - **Purpose:** Authenticate users to manage personal travel plans.
 - **Key Functionality/Components:**
Email & password fields, Login button, Signup link, "Forgot Password", basic validation.
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2. Dashboard / Home Screen

- **Description:** Central hub showing upcoming trips, popular cities, and quick actions.
 - **Purpose:** Allows users to navigate to their trips and explore inspiration.
 - **Key Functionality/Components:**
Welcome message, list of recent trips, “Plan New Trip” button, recommended destinations, budget highlights.
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3. Create Trip Screen

- **Description:** Form to initiate a new trip by providing a name, travel dates, and a description.
 - **Purpose:** Begins the process of creating a personalized travel plan.
 - **Key Functionality/Components:**
Trip name, start & end dates, trip description, cover photo upload (optional), save button.
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4. My Trips (Trip List) Screen

- **Description:** List view of all trips created by the user with basic summary data.
 - **Purpose:** Easily access and manage existing or upcoming trips.
 - **Key Functionality/Components:**
Trip cards showing name, date range, destination count, edit/view/delete actions.
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5. Itinerary Builder Screen

- **Description:** Interface to add cities, dates, and activities for each stop.
- **Purpose:** Construct the full day-wise trip plan in an interactive format.
- **Key Functionality/Components:**
“Add Stop” button, select city and travel dates, assign activities to each stop, reorder cities.

6. Itinerary View Screen

- **Description:** Visual representation of the completed trip itinerary.
 - **Purpose:** Review the full plan in a structured format (timeline or grouped by cities).
 - **Key Functionality/Components:**
Day-wise layout, city headers, activity blocks with time and cost, view mode toggle (calendar/list).
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7. City Search

- **Description:** Search interface to find and add cities to a trip, with info like country, cost index, and popularity.
 - **Purpose:** Discover and include relevant cities in the itinerary.
 - **Key Functionality/Components:**
Search bar, list of cities with meta info, "Add to Trip" button, filter by country/region.
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8. Activity Search

- **Description:** Browse and select things to do in each stop, categorized by interest or cost.
 - **Purpose:** Enrich trips with experiences like sightseeing, food tours, or adventure activities.
 - **Key Functionality/Components:**
Activity filters (type, cost, duration), add/remove buttons, quick view of description and images.
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9. Trip Budget & Cost Breakdown Screen

- **Description:** Summarized financial view showing estimated total cost and breakdowns.
- **Purpose:** Helps travelers stay informed and within budget.
- **Key Functionality/Components:**
Cost breakdown by transport, stay, activities, meals; pie/bar charts, average cost per day, alerts for overbudget days.

10. Trip Calendar / Timeline Screen

- **Description:** Calendar-based or vertical timeline view of the full itinerary.
 - **Purpose:** Helps users visualize the journey and daily plan flow.
 - **Key Functionality/Components:**
Calendar component, expandable day views, drag-to-reorder activities, quick editing options.
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11. Shared/Public Itinerary View Screen

- **Description:** Public page displaying a sharable version of an itinerary.
 - **Purpose:** Allows others to view, get inspired, or copy the trip.
 - **Key Functionality/Components:**
Public URL, itinerary summary, "Copy Trip" button, social media sharing, read-only view.
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12. User Profile / Settings Screen

- **Description:** User settings page to update profile information and preferences.
 - **Purpose:** Enables users to control their data, preferences, and privacy.
 - **Key Functionality/Components:**
Editable fields (name, photo, email), language preference, delete account, saved destinations list.
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13. Admin / Analytics Dashboard (Optional)

- **Description:** Admin-only interface to track user trends, trip data, and platform usage.
- **Purpose:** Helps in monitoring app adoption, popular cities, and user behavior.
- **Key Functionality/Components:**
Tables and charts of trips created, top cities/activities, user engagement stats, user management tools.

Mockup: <https://link.excalidraw.com/l/65VNwvy7c4X/6CzbTgEeSr1>