

TripPlanner Platform

A Spring Boot project that enables seamless trip planning experiences with secure user authentication, personalized trip itineraries, real-time destination discovery, collaborative trip management, and comprehensive admin controls for managing destinations, activities, and user preferences.

Features:

Version 1 :

1. **User Authentication & Profiles:**
 - Registration and Login
 - User Profile with personal details and preferences
 - Role-based access control (Admin and User)
2. **Trip Planning:**
 - Create, edit, and manage trip plans
 - Add destinations, dates, and travel modes
 - Trip recommendations based on interests
3. **Destination Search & Discovery:**
 - Search destinations by city, or region
 - Filter destinations by category (e.g., Adventure, Relaxation, Family)
 - Popular and trending destinations section
4. **Itinerary Builder:**
 - Create and manage itineraries (day-by-day schedule)
 - Add activities and attractions to the itinerary
 - Suggest activities based on destination and user preferences
5. **Accommodation & Transportation:**
 - Search for hotels, flights, buses, or trains
 - Save favorite hotels and transport options
6. **Budget Management:**
 - Estimate and manage trip budget (transport, accommodation, food, etc.)
7. **Admin Panel:**
 - Manage destinations, activities, and trips.
 - Admin controls for user management and roles
8. **Mobile-Friendly Design:**
 - Fully responsive for easy use on mobile devices

Version 2:

9. **Collaborative Trip Planning:**
 - Invite friends and family to collaborate on trip planning
 - Share itinerary and trip details with other users (Whatsapp, etc)
10. **Trip Reminders & Notifications:**
 - Notifications for upcoming trips (flight reminders, weather updates, etc.)
 - Alerts for planned activities or changes to itineraries

- Reminders for accommodation bookings and transport arrangements

11. **Social Sharing:**

- Option to export trip details to PDF or Excel
- Share destination reviews and experiences on social media

12. **Weather Integration:**

- Weather updates and forecasts for each destination
- Display weather conditions for planned activities

Tech Stack:

- ❖ Spring Boot
- ❖ Spring Security
- ❖ JWT, OAuth, OTP
- ❖ Spring Data JPA
- ❖ MySQL
- ❖ React.js
- ❖ REST APIs
- ❖ Git/Github
- ❖ Eclipse / VSCode
- ❖ POSTMAN
- ❖ Canva
- ❖ AWS

Development Process (Step by Step):

1. Design Architecture, Flowcharts, Diagrams - Canva
2. UI Design - Canva
3. Database Architecture, Schema - Google Docs
4. Database Integration - MYSQL
5. User Side Frontend - React.js, Bootstrap, Animation Library
6. Admin Side Frontend
7. APIs Listing - Google Docs
8. Admin Side Backend - Spring Boot, JPA
9. User Side Backend
10. Security Integration (RBAC) - Spring Security
11. JWT Integration
12. OAuth, OTP Integration
13. Email Integration for Contact form
14. APIs Testing - POSTMAN
15. Hosting on AWS
16. Beta Testing

User Features:

- ❖ Explore Destinations
- ❖ Add preferences
- ❖ Plan a Trip
- ❖ Bookings
- ❖ Login to view profile
- ❖ Contact us for queries
- ❖ Share Trips
- ❖ Previous Data in Dashboard and Profile

Admin Features:

- ❖ Login for admin access
- ❖ Admin Dashboard
- ❖ Add new trip
- ❖ Update trip
- ❖ Delete trip
- ❖ View all registered users
- ❖ Recent trips booked
- ❖ Recent trips uploaded by admin
- ❖ Cancelled bookings