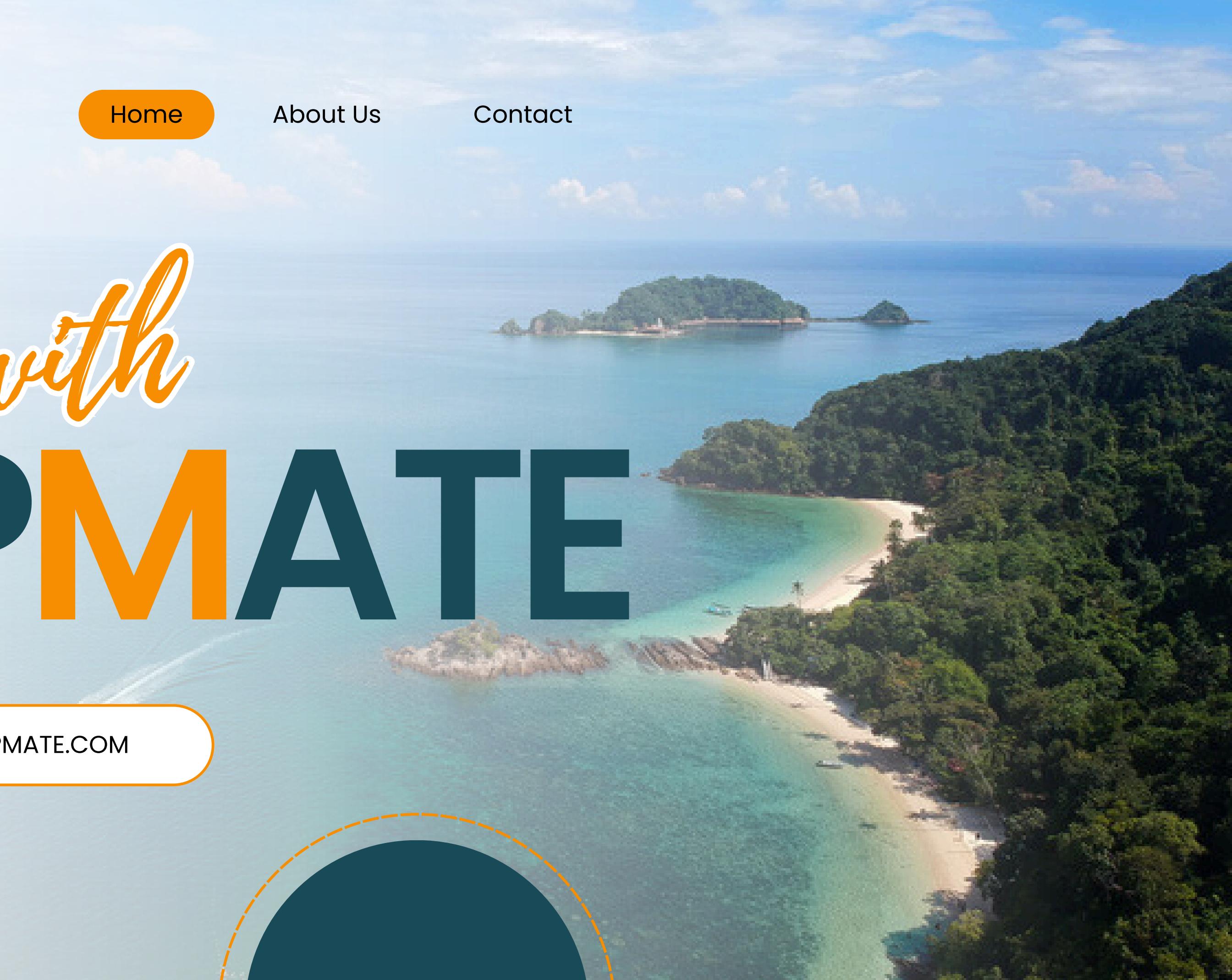
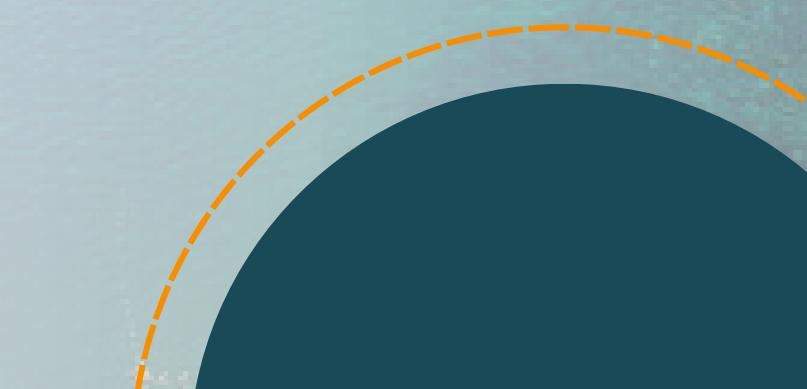


Travel with
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Overview

Road Trip Planner is a web application designed to help users plan road trips by adding city stops, checking weather forecasts, calculating distances, and visualizing routes on a map. The app integrates APIs for real-time data and uses modern frontend tools for a seamless user experience.

Features:

- City Stop Autocomplete
- Weather Forecasts
- Distance & Routing Info
- Interactive Map



OUR TEAM MEMBERS & WORK DISTRIBUTION

**Aesha Shah**

I have worked on implemented user functionality by developing the registration and login features, ensuring users can securely sign up and access the application.

I also integrated state management using Pinia to store user data in localStorage, allowing persistent login sessions across page reloads. Also do worked on some styling.

**Sakshi Gurbani**

Implemented the distance calculation between the source, destination, and stops, and used the Pinia persistence plugin to store this data in local storage. Additionally, integrated weather data fetching for random cities on the home page using the OpenWeather API.

**Sakshi Sukhani**

I implemented Pinia for state management to handle and persist the stops along with route, integrated Leaflet and search stops and add stops dynamically, also incorporated an optional parameter to pass the source from the Planner page to the Leaflet page and show different planner page if the user is logged in. Added functionality to keep Leaflet map intact even after a page refresh. And integrated user with trip data by storing trip id in stop store.



Sarthak Khandelwal

Developed a dynamic, user-friendly, and responsive interface for the application. And also add the enhanced features such as weather detail cards and upcoming trip management. And also work on the functionality like add favourite trip.



Tarannum Malek

Created trip route feature using OpenService(routing API) API and also added Add stops feature in it. Added Autocomplete feature for inputs in trip page where user can add source and destination so user see the suggestions for that.



Vishal Pansheriya

I integrated the OpenWeather API to enhance the route planning experience by providing real-time weather information for each stop. When a user adds a stop, the application fetches and displays the current temperature, weather condition, and an appropriate weather icon. This feature helps users make informed travel decisions based on the weather conditions at different locations along their route.



Challenges

- Integration of leaflet api and reseting the leaflet map after refresh.
- Weather data occasionally mismatched the selected city.Displaying weather data for particular location using co-ordinates of it and openweather
- Integration of multiple stops, leading to inaccurate or messy routes on the map.
- Integration of openweather read Documentation.
- User state management across the page using pinia and also store the user data.



Solutions

- Resolved it by studying documentation and ensuring it aligned with project requirements
- Used latitude/longitude from Geocoding API for accurate results.
- Refactored the route-building logic to dynamically re-calculate the entire path whenever a stop was added, removed, or moved. do same.
- For the user store management: see the documentation of Pinia and come up with the solution usinga-persisted-state plugin; we can store the user.



Future Enhancement



Stop Suggestions Optimization

Implement faster APIs or cache common/popular places to reduce delay.
Use autocomplete with debouncing to speed up user input experience.



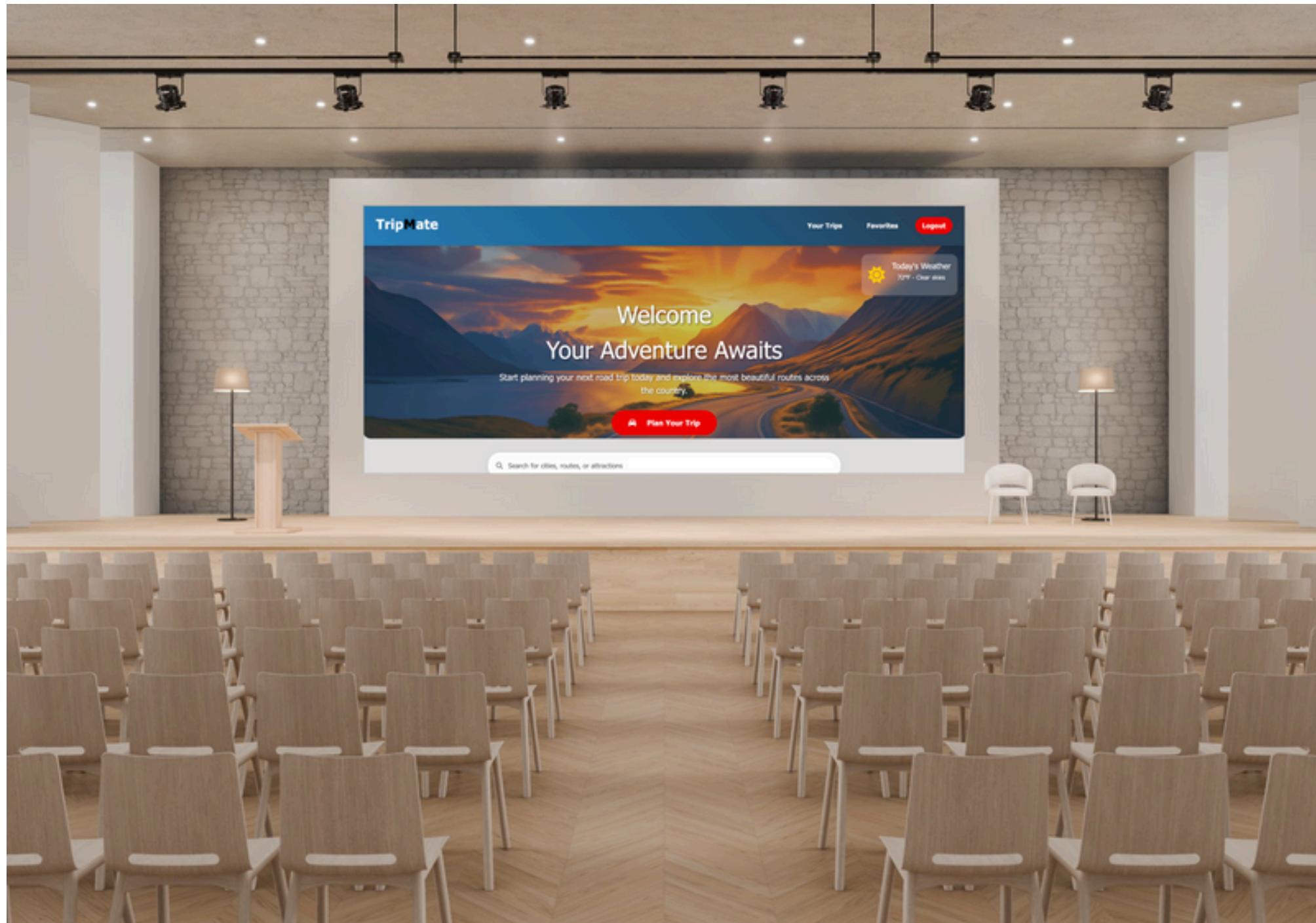
Trip Sharing and Collaboration

Share trips via link, with view/edit permissions.
Let users co-plan with friends, adding comments or voting on stops.



Multi-day Trip Planning

Split stops across multiple days, auto-suggest nearby hotels.
Let users assign activities to specific days.



PROJECT DEMO

TRIPMATE

See you next time
**Thank you
For Attention**

