
Smart Travel Companion

A full-stack web app that helps users track their location, monitor network status, and view nearby places using modern Web APIs.

 [Live Demo](#)  [Source Code](#)

Features

- Real-time geolocation tracking with map
 - Network type and speed monitoring
 - Lazy-loaded nearby places with animations
 - Canvas-based path visualization
 - Fully responsive UI (mobile-first)
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Web APIs Used

- **Geolocation API** – Real-time location tracking
 - **Network Information API** – Detect connection type & quality
 - **Intersection Observer API** – Lazy-loading and scroll animations
 - *(Optional: Canvas API, Background Tasks API for enhanced UX)*
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Tech Stack

Frontend:

- React + TypeScript
- Tailwind CSS
- Leaflet (Maps)
- Vite

Backend:

- Node.js + Express
 - MongoDB (for storing location history)
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Project Structure

```
smart-travel-companion/  
├── client/    # React Frontend  
└── server/    # Node.js Backend
```

Local Setup

Prerequisites:

- Node.js (v18+)
- npm or yarn

Steps:

```
git clone https://github.com/shibbu04/smart-travel-companion.git
cd smart-travel-companion
```

Start Frontend:

```
cd client
npm install
npm run dev
```

Start Backend:

```
cd server
npm install
npm start
```

Backend runs at <http://localhost:5000> Frontend at <http://localhost:3000>

API Endpoints

Base URL: <http://localhost:5000/api>

- [GET /locations](#) – Get all saved locations
 - [POST /locations](#) – Add new location
 - [DELETE /locations](#) – Delete all locations
 - [GET /health](#) – API status check
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License & Author

- **License:** MIT
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