**🌍 EcoRoute - Eco-Friendly Route Optimizer**

***Drive smart. Travel green.*  
A hackathon project built to make every route count for the planet. 🌱**

**🚀 Overview**

**EcoRoute is a map-based web application that helps users find the most eco-friendly route between locations by calculating and comparing CO₂ emissions. Whether you're commuting daily or planning a road trip, EcoRoute lets you make environmentally conscious travel decisions.**

**✨ Features**

* **🗺️ Interactive Map Interface – Set waypoints using draggable markers**
* **🧭 Route Optimization – Visualize multiple paths with polyline directions**
* **🌿 Eco Metrics – Get real-time CO₂ emission estimates for each route**
* **📊 Route Comparison – Detailed breakdown of distance, time, and environmental impact**
* **💻 Multi-page App – Seamlessly navigates through index, details, direction, and result pages**

**🛠️ Tech Stack**

* **Frontend: HTML, CSS, JavaScript**
* **APIs:**
  + **🗺️** [**HERE Maps API**](https://developer.here.com/) **– for route visualization**
  + **🌐** [**OpenCage Geocoding API**](https://opencagedata.com/) **– for location search & geocoding**

**📁 Folder Structure (if needed)**

**bash**

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**├── index.html**

**├── details.html**

**├── direction.html**

**├── result.html**

**├── query.html**

**├── result.js**

**├── main.css**

**├── script.js**

**🤝 Contributions**

**Pull requests are welcome! For major changes, please open an issue first to discuss what you would like to change.**