CURRENCY AND TEMPERATURE CONVERTER

A modern, responsive web application that lets users convert between global currencies in real-time and perform temperature conversions instantly.
Built with React.js and Tailwind CSS, the app delivers a clean user experience, API-driven data, and fast interactions.

WHAT IS CT CONVERTER

CT Converter combines two everyday tools — a currency converter and a temperature converter — into one seamless platform.

Users can:

▶ Convert currencies using real-time exchange rates.

▶ Switch to temperature mode for Celsius ↔ Fahrenheit ↔ Kelvin conversions.

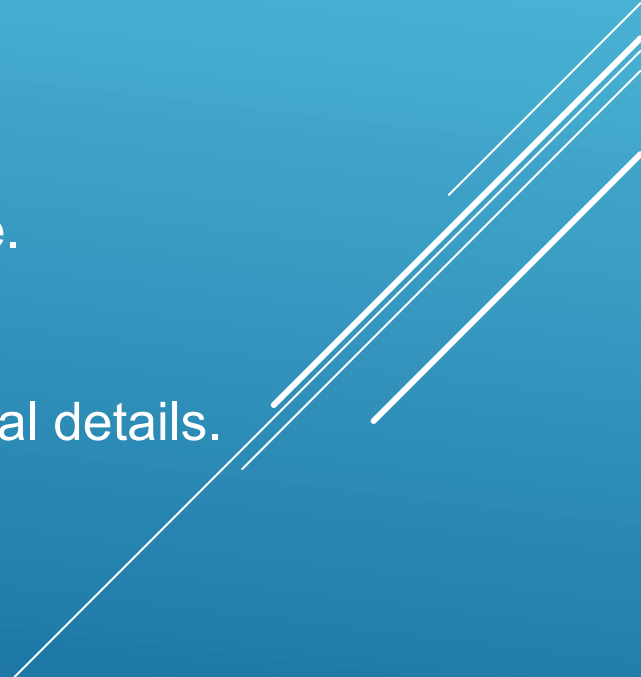▶ View contextual country data such as flag, map link, population, and currency details.

CORE FEATURES

▶ **Dual Converter Modes:** Currency and temperature conversion in one app.

▶ **Real-Time Currency Data:** Powered by Exchangerate API.

▶ **Country Context:** Displays flag, population currency name/code, capital city, and map link. All retrieved from REST Countries open source API

▶ **Responsive UI:** Optimized for mobile, tablet, and desktop.

▶ **Dynamic Rendering:** Converters and data displayed based on user selection.

TECHNOLOGY STACK

▶ **Frontend Framework:** React.js — component-based UI development.
▶ **Styling:** Tailwind CSS — utility-first CSS for responsive, modern designs.
▶ **APIs:**
   ▶ **Exchangerate API** for live currency rates.
   ▶ **REST Countries API** for country details and flags.
▶ **State Management:** React Hooks (useState, useEffect) for data fetching and UI updates.

APP FLOW

▶ **Select Converter Mode** — Choose between currency or temperature.

▶ **Input Data** — Enter the amount and select units/currencies.

▶ **Fetch Data (Currency Mode)** — Real-time rates fetched from API.

▶ **Display Results & Country Info** — Conversion results plus contextual details.

▶ **Responsive Layout** — Adjusts seamlessly across devices.

CONCLUSION

CT Converter provides a fast, reliable, and user-friendly way to handle two essential conversions in one place.

THANK YOU