

# Final Project Proposal : Currency & Crypto Explorer

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### Overview

This project takes the challenge of access to reliable info about crypto and currency exchange, this App takes information, offering real-time conversion and insights.

### Target audience

The target audience includes international travelers, economics students, and cryptocurrency enthusiasts

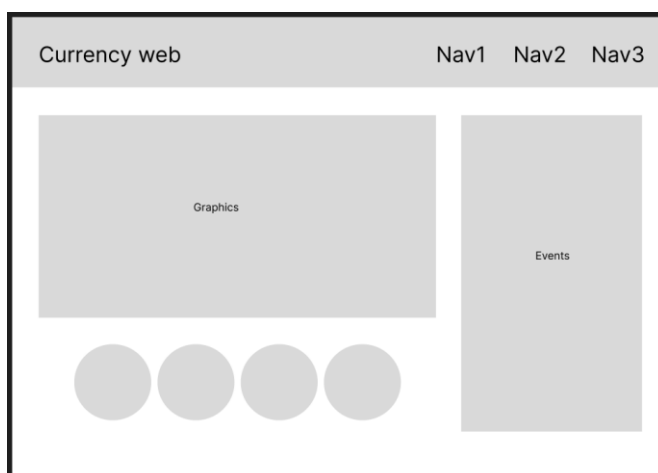
### Major Functions

Currency converter – Convert between major world currencies.

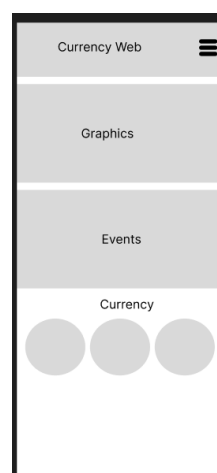
- Real-time exchange rates – Display updated rates from the API.
- Cryptocurrency prices – Show current values for popular cryptos.
- Historical charts – Graphs of past exchange rates and crypto trends.
- Favorites list – Save preferred currencies and cryptos in localStorage.
- Comparison tool – Compare two currencies or cryptos side by side.
- Price alerts – Notify users when a currency or crypto crosses a threshold.
- Responsive design – Optimized for mobile and desktop.
- Export results – Generate a simple report of conversions.
- Dark mode – Toggle between light and dark themes

### Wireframes

Desktop view



Mobile view



## External Data Sources

ExchangeRate API – Provides currency exchange data (name, code, rate, date, etc.).

CoinGecko API – Provides cryptocurrency data (name, symbol, price, market cap, volume, etc.).

## Module List

index.html – Homepage structure.

styles.css – Styling and responsive design.

main.js – Entry point and app initialization.

currency.js – Handles currency API calls and conversions.

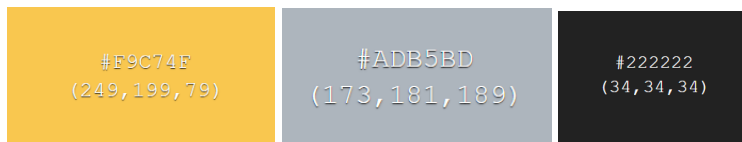
crypto.js – Handles crypto API calls and charts.

utils.js – Helper functions (localStorage, formatting).

## Graphic identity

**Color scheme:**

Gold (#f9c74f), black (#222), gray (#adb5bd)



## Typography

title: **Roboto**

Body: roboto

## Schedule (Weeks 5–7)

- Week 5: Integrate ExchangeRate API and CoinGecko API, display basic conversions.
- Week 6: Add historical charts, favorites, and comparison features.
- Week 7: Implement alerts, finalize design, test responsiveness, and deploy

## **Trello Board**

A Trello board will be created with columns: Backlog, Week 5, Week 6, Week 7, Done. Each card will represent deliverables such as API integration, UI design, chart rendering, and deployment.

## **Challenges**

Handling real-time data updates and API rate limits.

Managing differences in data formats between currency and crypto APIs.

Optimizing chart rendering for performance.

Ensuring usability across devices with responsive design.