

CryptoScope - Crypto Currency Tracker Web Application

By: Bansuri Gupta

CryptoScope is an advanced web application that empowers users to track real-time data and trends of various cryptocurrencies. Built on a robust and cutting-edge tech stack, CryptoScope provides an intuitive and user-friendly platform for cryptocurrency enthusiasts and investors alike. With a focus on accuracy, reliability, and seamless functionality, CryptoScope offers a comprehensive set of features to enhance your cryptocurrency trading and investment experience.

Tech Stack

Frontend - Next.js

Next.js, a popular React framework, serves as the foundation for CryptoScope's frontend development. By leveraging Next.js, we achieve server-side rendering, optimized performance, and efficient routing, resulting in a smooth and interactive user interface. Additionally, the Typesafe version (TSX) ensures code integrity and enhances the overall development process.

Backend - Express.js

At the heart of CryptoScope's backend services lies Express.js, a flexible and minimalistic Node.js web application framework. Express.js enables the implementation of robust RESTful APIs, middleware, and efficient routing, ensuring seamless communication between frontend and backend components. Paired with Node.js, the backend provides a stable and scalable foundation for the application's core functionalities.

Database - MongoDB

To support the storage and retrieval of cryptocurrency-related data, CryptoScope harnesses the power of MongoDB, a NoSQL document-oriented database. MongoDB's ability to store data in JSON-like documents allows for easy manipulation and retrieval of information, ensuring real-time and accurate data display to users.

Crypto API - CoinGecko

CoinGecko, a renowned cryptocurrency data aggregator, serves as the primary source of real-time and historical data for various cryptocurrencies within CryptoScope. By integrating CoinGecko's API, we provide users with up-to-date pricing, market trends, trading volumes, and additional valuable insights to aid in their investment decisions.

Uniswap Integration

CryptoScope takes your trading experience to the next level with seamless integration with Uniswap, a decentralized exchange. By incorporating Uniswap's functionality directly into the platform, users can make trades, swaps (both long and short positions), and stake with ease and convenience.

Key Features

Real-time Crypto Data

Stay ahead of the market with real-time data on various cryptocurrencies. CryptoScope provides you with current prices, market capitalization, trading volumes, and historical price charts, empowering you to make informed investment decisions.

Price Alerts

Never miss an opportunity! Set personalized price alerts for specific cryptocurrencies. When prices meet your predefined criteria, CryptoScope will notify you through email or push notifications, ensuring you stay updated on market movements.

Advanced Charts for Analysis

Unlock the power of advanced charting tools to analyze popular cryptocurrencies. With up to three powerful indicators at your disposal, gain valuable insights into currency movements and trends, helping you make well-informed trading choices.

Conclusion

CryptoScope, an advanced Crypto Currency Tracker Web Application, offers an array of features designed to elevate your cryptocurrency trading and investment journey. With a robust tech stack, real-time data, price alerts, advanced charting tools, portfolio management, and integration with Uniswap, CryptoScope is your one-stop solution for navigating the dynamic world of cryptocurrencies.

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