

# Cryptocurrency Tracker

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## Introduction

With the recent surge in the popularity of cryptocurrencies, it is becoming increasingly important for investors to have access to the latest information and market insights. The global user base of cryptocurrencies grew by almost 190% in recent years. With Tesla and Mastercard expressing interest in cryptocurrency, the trend is expected to continue.

A cryptocurrency tracker app lets users monitor their favourite cryptocurrencies' performance in real-time. It allows users to monitor the performance and make informed investment decisions based on the latest data.

Cryptocurrency is becoming more popular to invest in, so there is a big need for tools to keep track of it. The tools can provide real-time data about various metrics such as prices, market capitalization, and trading volumes of cryptocurrencies, thereby, providing investors with the necessary insights to make informed investment decisions. Cryptocurrency trackers also offer such helpful features as:

- portfolio management tools.
- alerts for price changes.
- news updates related to the cryptocurrency market.
- tracking of multiple cryptocurrencies.
- comparison of cryptocurrency prices across different exchanges.

## Literature Review

### Case Study:

CoinMarketCap is the digital currency world's "go-to value checker as far back as anybody can recollect," as indicated by Bitcoin.com. There are various reasons why this site is the predominant power in the field of value tracker administrations. The site, which was established in 2013 is modestly straightforward, posting the best 100 cryptographic types of cash by market capitalization. For each computerized cash, there is data about its present market cap, value, 24-hour exchanging volume, the coursing supply, the rate change in esteem over the past 24 hours, and a seven-day value chart. For example, Binance Coin is positioned as the tenth biggest digital money as of Jan. 28, 2021, with a market cap of \$6.6 billion. It exchanged at \$43 on that date with \$523.6 million in exchanging volume. Generally, 90% of its stockpile was available for use—155 million out of 172 million coins.

Data on singular digital currencies likewise incorporates verifiable execution diagrams across different time periods, and complete stock, and that's just the beginning. Especially valuable is the breakdown of exchanging sets, 24-hour volume, and the current cost across various trades. Investors can likewise analyze money costs on various trades simultaneously, permitting them to decide the most ideal alternative for one or the other purchasing or selling. Moreover, CoinMarketCap likewise records lesser-known advanced monetary forms (those past the best 100 computerized monetary forms).

Bitgaur was launched in 2017 and is, as indicated by its site, associated with various distinctive exchanges. The site offers a valuable separating framework, which permits clients to channel cryptographic money results as per class type, year, and innovation. This implies

that financial backers with a specific center, similar to items connected to cryptographic forms of money, can calibrate their ventures. Bitgur likewise offers its own BTC expense expectation apparatus, an unpredictability list, and a watchlist work much the same as business administrations.

## Methodology:

A React.js application that displays price, volume, coin-percentage & market capital with other relevant details and other information for all the cryptocurrencies in the world.

The Cryptocurrency Tracker web application is supposed to guide the new user in cryptocurrency world. Therefore, we take consideration of attractive GUI, user-friendly handling of application. Also, we try to use latest technologies, various API's etc.

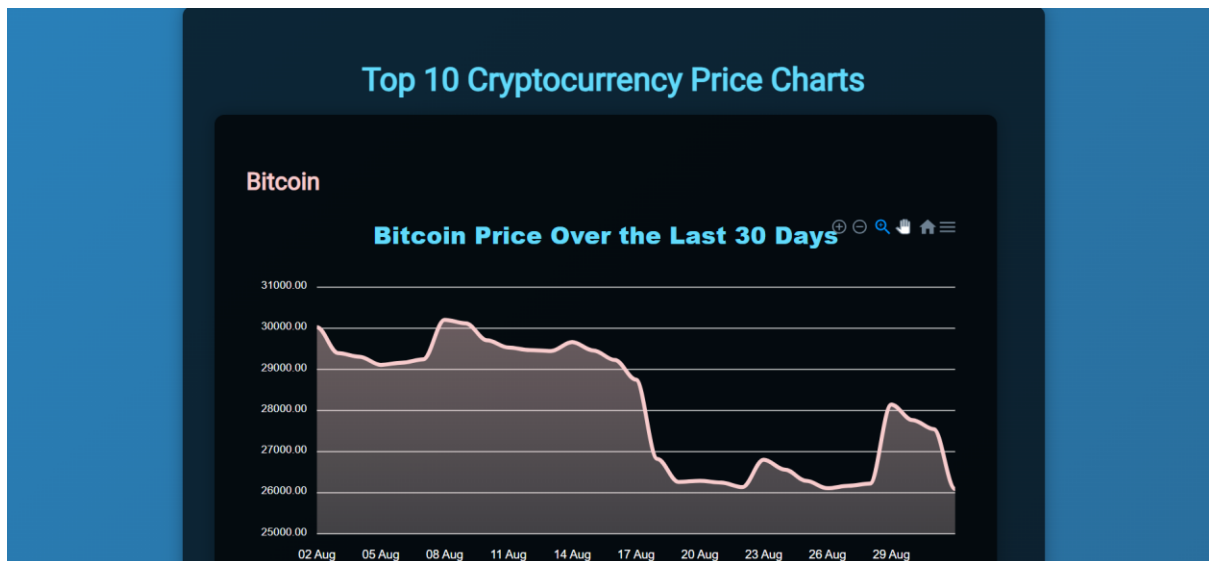
Cryptocurrency Tracker application is made in such way that anyone can use in very easy manner. For registration, you can sign up with your google account and we are preparing to enable registrations independently using other options such as sign in using Facebook, LinkedIn, Twitter and other platforms to access the web application. We have provided the authentication for login process so that confidentiality is maintained. Only verified username and password is allowed to access the account. Login process is created in such way so user can get secured and clear access to the system. Every new user is asked for login and sign-up. And only registered user is allowed for login next.



Home page of the System is designed as one view contain 10 coins and their prices. All the coins are designed in separate specific manner. We can get detailed information by clicking to coin itself.

With coin Page we also implemented one bracket of watchlist. In is provided since user will get direct access to favourite coin. This coin will add to the account section of the user as shown in watchlist table. Also, user can remove any item from watchlist at any time. In this way, we have tried to customize a system that will be useful for cryptocurrency user. The main goal of this application is to provide a user-friendly application that enhance

technology in proper way. Also, the system is able to provide more information in compact way.



## Technologies Used

- CoinGecko [REST API](<https://www.coingecko.com/en/api/documentation>)
- React
- React Hooks
- React Testing
- Axios
- Material UI
- React Query
- Chart JS

## Features

- Interactive graph.
- Light/Dark mode switch.
- Infinite Scroll.
- Fully Responsive.

## Flowchart:

