

# Cryptocurrency Tracker Using ReactJs

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**Abstract:** *It is a web-application developed by using ReactJS, in this application we can see the cryptocurrency live stats and all the cryptocurrency market cap, We can also see the change of price in last 24 hours. This app can convert the change into graphical representation it will also tell the ranking of each cryptocurrency according to their price. The Cryptocurrency tracker is a cross platform application, which tracks the crypto currency. The app is developed using Vscod, ReactJs, Git, Coingecko, and Newsdata.dev. firebase cryptocurrency flutter fire base authfigma fire store cryptocurrency-tracker coingecko-api. Cryptocurrency is a digital payment system that doesn't rely on banks to verify transactions. It's a peer-to-peer system that can enable anyone anywhere to send and receive payments. Instead of being physical money carried around and exchanged in the real world, cryptocurrency payments exist purely as digital entries to an online database describing specific transactions. When you transfer cryptocurrency funds, the transactions are recorded in a public ledger. Cryptocurrency is stored in digital wallets. Cryptocurrency received its name because it uses encryption to verify transactions. This means advanced coding is involved in storing and transmitting cryptocurrency data between wallets and to public ledgers. The aim of encryption is to provide security and safety. The first cryptocurrency was Bitcoin, which was founded in 2009 and remains the best known today. Much of the interest in cryptocurrencies is to trade for profit, with speculators at times driving prices skyward.*

**Keywords:** Bitcoin, Litecoin, web payment, privacy, transaction-linkage

## I. INTRODUCTION

It is a web-application developed by using ReactJS, in this application we can see the cryptocurrency live stats and all the cryptocurrency market cap, We can also see the change of price in last 24 hours. This app can convert the change into graphical representation it will also tell the ranking of each cryptocurrency according to their price. The Cryptocurrency tracker is a cross platform application, which tracks the crypto currency. The app is developed using Vscod, ReactJs, Git, Coingecko, and Newsdata.dev. firebase cryptocurrency flutter fire base authfigma fire store cryptocurrency-tracker coingecko-api. Cryptocurrency is a digital payment system that doesn't rely on banks to verify transactions. It's a peer-to-peer system that can enable anyone anywhere to send and receive payments. Instead of being physical money carried around and exchanged in the real world, cryptocurrency payments exist purely as digital entries to an online database describing specific transactions. When you transfer cryptocurrency funds, the transactions are recorded in a public ledger. Cryptocurrency is stored in digital wallets. Cryptocurrency received its name because it uses encryption to verify transactions. This means advanced coding is involved in storing and transmitting cryptocurrency data between wallets and to public ledgers. The aim of encryption is to provide security and safety. The first cryptocurrency was Bitcoin, which was founded in 2009 and remains the best known today. Much of the interest in cryptocurrencies is to trade for profit, with speculators at times driving prices skyward. transactions updated and held by currency holders. Units of cryptocurrency are created through a process called mining, which involves using computer power to solve complicated mathematical problems that generate coins. Users can also buy the currencies from brokers, then store and spend them using cryptographic wallets. If you own cryptocurrency, you don't own anything tangible. What you own is a key that allows you to move a record or a unit of measure from one person to another without a trusted third party. Although Bitcoin has been around since 2009, cryptocurrencies and applications of blockchain technology are still emerging in financial terms, and more uses are expected in the future. Transactions including bonds, stocks, and other financial assets could eventually be traded using the technology. Cryptocurrency

examples There are thousands of cryptocurrencies. Some of the best known include: Bitcoin: Founded in 2009, Bitcoin was the first cryptocurrency and is still the most commonly traded. The currency was developed by Satoshi Nakamoto – widely believed to be a pseudonym for an individual or group of people whose precise identity remains unknown. Ethereum: Developed in 2015, Ethereum is a blockchain platform with its own cryptocurrency, called Ether (ETH) or Ethereum. It is the most popular cryptocurrency after Bitcoin. Litecoin: This currency is most similar to bitcoin but has moved more quickly to develop new innovations, including faster payments and processes to allow more transactions. Ripple: Ripple is a distributed ledger system that was founded in 2012. Ripple can be used to track different kinds of transactions, not just cryptocurrency. The company behind it has worked with various banks and financial institutions.

## II. LITERATURE SURVEY

Cryptocurrency Price Analysis with Artificial Intelligence Author:- Wang Yiyang; ZangYeze Publisher:- IEEE Abstract:- Cryptocurrency is playing an increasingly important role in reshaping the financial system due to its growing popular appeal and merchant acceptance. While many people are making investments in Cryptocurrency, the dynamical features, uncertainty, the predictability of Cryptocurrency are still mostly unknown, which dramatically risk the investments. - Realtime monitoring of Bitcoin prices on several Cryptocurrency markets using Web API, Telegram Bot, MySQL Database, and PHP-Cronjob Author:- RizkyParlika; PratamaWiryaAtmaja Publisher:- IEEE Abstract:- Various ways have been done by researchers from all over the world to predict the price of Bitcoin which is the first digital commodity based on blockchain. Various forecasting and computational techniques have been widely applied and continue to be refined to find a prediction package that has the closest accuracy. The Blockchain-Empowered Software System Author:- Wei Cai; Zehua Wang; Publisher:- IEEE Abstract:- Blockchain technology has attracted tremendous attention in both academia and capital market. However, overwhelming speculations on thousands of available cryptocurrencies and numerous initial coin offering scams have also brought notorious debates on this emerging technology. . This paper traces the development of blockchain systems to reveal the importance of decentralized applications (dApps) and the future value of blockchain. We survey the state-of-the-art dApps and discuss the direction of blockchain development to fulfill the desirable characteristics of dApps. The readers will gain an overview of dApp research and get familiar with recent developments in the blockchain.

## III. PROPOSED IMPLEMENTATION

**NPM:** Npm is also known as Node Package Manager. It holds the prime position in the front-end technologies list. It is considered to be the world's largest software registry. It has public as well as private collections of packages of source code for front-end mobile apps, web apps, robots, routers, and a lot of other JavaScript-related stuff. With the help of Npm, developers can conveniently share their code and reuse others' code. Moreover, it makes it easy for you to use the latest version of other developer's code in your own app.

**REACT:** ReactJS is JavaScript library used for building reusable UI components. According to React official documentation, following is the definition – React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance. React can also render on the server using Node, and it can power native apps using React Native. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

**CRYPTOCURRENCY TRACKER USING REACTJS 1 3 React Features JSX – JSX** – JSX is JavaScript syntax extension. It isn't necessary to use JSX in React development, but it is recommended. Components – React is all about **Next.js** Next.js: is a react based framework.

### Steps for how the web application works

- Step 1:- Create a Front End Application.
- Step 2:- Fetch the free crypto API.
- Step 3:- Arrange the API according to the UI.
- Step 4:- Now you can see all the cryptocurrencies live.

**IV. FLOWCHART**

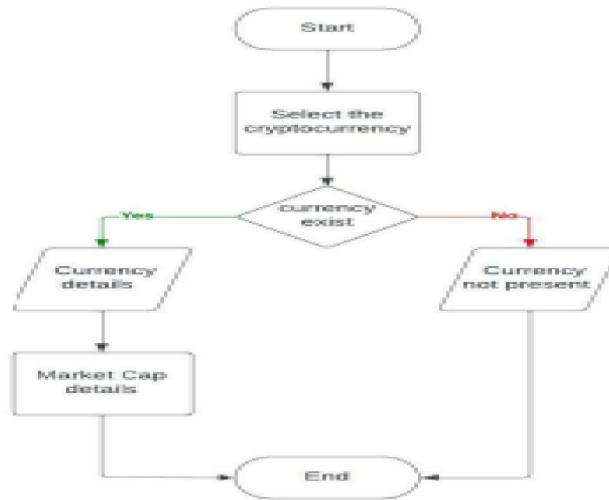


Fig:- Flowchart of the System

**V. OUTPUT**



Cryptocurrency Prices by Market Cap

Search For a Crypto Currency:

Coin	Price	24h Change	Market Cap
BTC Bitcoin	₹ 2,237,462.00	-2.73%	₹ 43,329,056M
ETH Ethereum	₹ 151,878.00	-3.32%	₹ 18,303,934M
USDT Tether	₹ 82.13	-0.10%	₹ 6,689,095M
BNB BNB	₹ 26,697.00	-0.57%	₹ 4,216,952M
USDC USD Coin	₹ 82.14	-0.02%	₹ 2,528,883M



## VI. FUTURE SCOPE

The world of cryptocurrencies is constantly evolving, and there are several areas where a cryptocurrency tracker can continue to improve and expand. Here are some potential future scopes for a crypto currency tracker:

**Support for more cryptocurrencies:** As new cryptocurrencies are introduced to the market, a crypto currency tracker can add support for these currencies. This will provide users with a more comprehensive view of the cryptocurrency market and allow them to make more informed investment decisions.

**Integration with more exchanges:** A crypto currency tracker can expand its integration with more cryptocurrency exchanges to provide users with more trading options and enable them to make trades directly from the tracker.

## VII. CONCLUSION

This web-based application will help you to understand the growth of each cryptocurrency according to market change. This will graphically represent each cryptocurrencies details in this app. You can see the cryptocurrencies according to their market evaluation. This web application is developed using Vscod, ReactJs, Git, Coingecko, and Newsdata.dev. firebase cryptocurrency flutter firebase Cryptocurrency authfigma firestore cryptocurrency-tracker coingecko-api .So the representation of application is on browser.Users can also buy the currencies from brokers, then store and spend them using cryptographic wallets. If you own cryptocurrency, you don't own anything tangible. What you own is a key that allows you to move a record or a unit of measure from one person to another without a trusted third party. Cryptocurrencies run on distributed public ledger called bolckchain, a record of all transactions updated and held by the currency holders

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