

CRYPTO TRAIL

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Abstract: — *Crypto Currency nowadays is in most demand and many people are investing in these currencies to get high return. It is the most frequently used as it is theft proof, accessible anywhere and anytime. By this, settlement becomes easy. So, we will be building an application that provides us information about the rates of different cryptocurrencies available in the Crypto Market and would respond to the information provided to us.*

Keywords: *Cryptocurrency, Bitcoin, Currency, Encrypted, Component*

I. INTRODUCTION

The world is moving faster than we expect this 21st century. Now the digital revolution is the future and new inventions are coming with every new day. Like one invention is cryptocurrency, which is known as digital currency. India has also started moving towards the digital economy. Money is clearly a basic need of every human being which cannot be avoided, human needs can be realized by using money. As there is lack of systematic literature review papers discussing about cryptocurrency, this is a challenge as well as the main motive of this paper. Along with the event of modernization and globalization that has currently entered the commercial era 4.0 revolution, there's a blockchain primarily based technology, Cryptocurrency.

It is the year 2022, where around 3.5 Billion people have access to digital technology around the world. The currency has gone through various revolutions and one such revolution is Digital Currency. In this cryptocurrency plays an important role in taking forward the digital currency revolution. Cryptocurrency is often used as decentralized digital currency and is one of the developments of the blockchain. It is the medium of exchange using Digital platform which uses Blockchain technology to conduct the financial transaction. The word Cryptocurrency is a virtual currency that has no physical form, and it means that this transaction currency cannot be seen and hence it is safe. Bitcoin, Ethereum, Litecoin, Monero are the few types of this currency.

Although there is no physical form, the functions of this currency is same as conventional currencies in general and has an exchange rates. Exchange rates on Cryptocurrency fluctuate which means the exchange rates are unexpected, and due to which it is often exploited by traders.

Today technology makes a revolution in all industries, and the currency is no excuse from it. From barter system to

traditional currency and from there now e-wallet and digital payment are ruling the market. So, in the near future we can expect cryptocurrency penetrating the market. But when it comes to cryptocurrencies, investors routinely spend a lot of time searching for the latest coin: the one with the most exciting prospects or the one that's the most undervalued. Many investors also look to different cryptocurrency exchanges, applications, and services because it helps to maximize their investment potential. But fewer individuals who invest both time and money into the cryptocurrency space spend an adequate amount of time considering the impact that a digital currency price tracker has on their experience.

The main purpose of cryptocurrency price tracker is to monitor the current value of digital currencies and information about market capitalization, trading volume, price charts, and other types of data. The accuracy of the tracker can have a significant bearing on an investor's decisions; because investors have to choose their price tracker carefully and they completely rely on this tracker. Cryptocurrency price trackers should use reliable data and consistently update their data to give the accurate result to the users. The CoinMarketCap is the industry's most popular and recognizable cryptocurrency price tracker adding to which Coinlib and Bitgur are the other two trackers used by the users to keep the track on Cryptocurrency price. The application keeps track of trending Cryptocurrencies existing in the market and shows the values of the top 10 cryptocurrencies by market cap (in a table). The website will provide us information about the rates of different cryptocurrencies available in the Crypto Market.

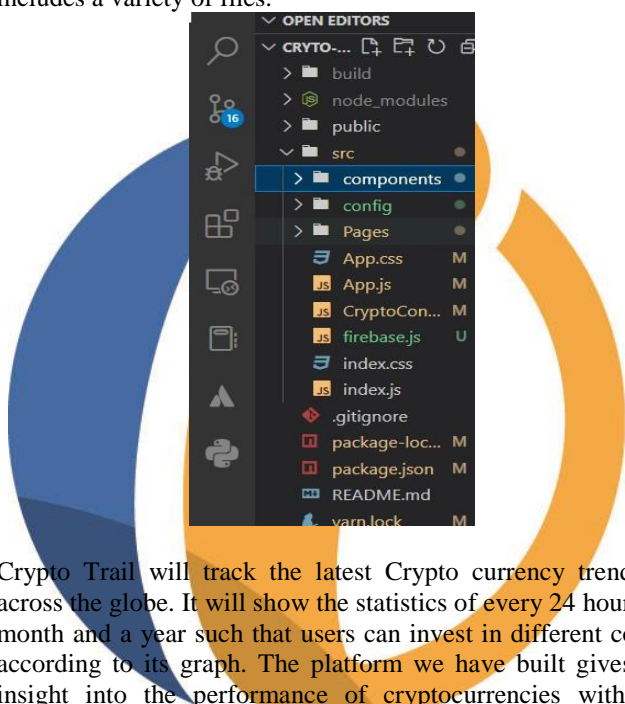
Many researchers have studied cryptocurrency management and have come up with some apps like Coin tracking Application: If a person wants the latest price of cryptocurrencies on a regular basis, then this is the best application. Coin Tracking can be found on both IOS apps and android apps. Coin tracking is a user-friendly application where the current price is accessible to the user along with the data that helps in making better decisions on when to sell or buy coins according to the market which may profit the user. Also, it is easy to connect to all popular exchanges by using the API feature which gives the new ongoing trading data.

II. METHODOLOGY

Crypto Trail will be the application through which user or investor can get the recent price of particular cryptocurrency in which they are interested and also the other cryptocurrency which is growing day by day. To gain the knowledge, a few

cryptocurrencies we've got created use of API (Application programming interface) feature. Also, we made use of various algorithms to get the highest cryptocurrency to be displayed on the top of our application. Application Programming Interface are important in exchange of information as it simplifies the task of processing an XML language. Our application will provide detailed description of the currency with the real time prices and graph which will indeed give the more clarity to the users. It will also have sign up and login feature as it is an important feature these days. Also, this feature will keep the profile of the user secure and the user can use the application remotely.

This project includes a variety of files, each of which fulfils a certain function inside the application. Since react is the primary technology being utilized in this project, the project makes use of the folder structure that react provides, which includes a variety of files.



Crypto Trail will track the latest Crypto currency trending across the globe. It will show the statistics of every 24 hours, a month and a year such that users can invest in different coins according to its graph. The platform we have built gives us insight into the performance of cryptocurrencies with an attractive UI that is created using React.js along with Material UI. The main objective of creating this platform is to provide easy access to cryptoinsights to the user. We have built our UI in such a way that it makes it easy for the user to explore every crypto coin in a much easier way.

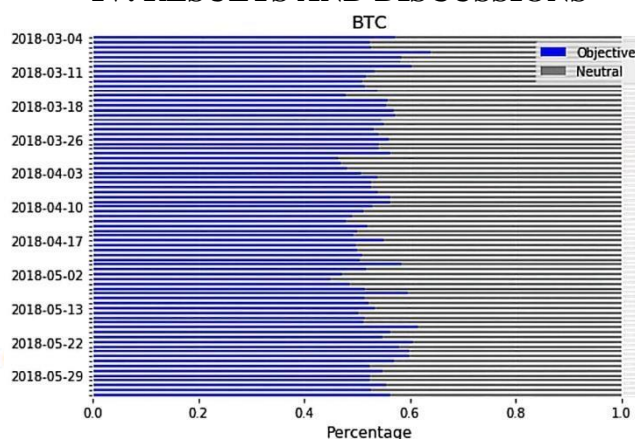
III. MODELLING AND ANALYSIS

- 1) Login: To confirm the user's identity, they must log in. It serves to prevent unauthorized users from using the program. Using the user's email address and password, they can access the account.
- 2) Registration Screen: The registration page for the new user who must firstly complete the application's registration process. For completion of registration process, few details are must to be added. These are the following information: email address, password, and password confirmation. The user is identified using these details.
- 3) Home Screen: On the main page, we can see overall cryptocurrencies list, as well as the top

cryptocurrency trending across the globe in a carousel.

- 4) Add Coin: User add the cryptocurrency in which he/she is interested by clicking on the Add to Wishlist icon.
- 5) Statistics: We may see a pictorial depiction of the price range in the form of a line graph, where it shows about the fall and drop of a graph.
- 6) User Sidebar: All the cryptocurrencies are listed added by the user in a Wishlist.
- 7) Change Currency: Track money is not only limited to a single currency; it also allows users from all over the world to track money in their own native currencies. As a result, the app's target audience is not limited to a single country; anyone from anywhere can download it and track their currency for better financial management.
- 8) Export CSV file: The user can also download an excel file in.csv format that contains all of the data of the currencies, and from which he can retrieve all of the past data about the statistics of the particular cryptocurrency.

IV. RESULTS AND DISCUSSIONS



Print detailed and summarized reports View summarized reports, by week, month or year.

No need for an elaborate report, coin and its statistics are clear and to the point.

Details

It would contain a main screen - wherever all the various cryptocurrencies are displayed, beside that watch list - wherever all the favorite cryptocurrencies are displayed consistent with the user's selection, and therefore the the} last would be settings - wherever you'll be able to see your profile and might also build necessary settings preferred to user within the application.

The retrieval of the info is continuing exactly in accordance with the plans that were created. Through the utilization of the CoinGecko API, we tend to square measure with success getting the info. as a result of our JavaScript techniques square measure applying the filters to the data, we tend to square measure ready to acquire valuable data also as statistics that square measure current in the least times on the currencies

V. CONCLUSION

We can finally conclude that in this project we were able to successfully develop a crypto tracker app by making use of React in addition to other cutting-edge technologies like Material UI. The detailed description of the currency with the real time prices and graphs makes it different from others. Adding to which the intuitive nature of its graphical user interface as well as its capacity to precisely monitoring the operation of bitcoin exchanges in a matter of milliseconds also distinguishes the application from others. Cryptocurrency is in everyone's mind and it is the upcoming future in India. Many of them have started investing and trading in the crypto market. With this application it will be easier to track prices and hence improve profitability of individuals as they do not have to go browsing for prices on different websites.

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