



Personalized Cryptocurrency Tracker – CryptoScout

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Abstract : The word crypto itself told us meaning as hiding. It means to suppose cryptocurrency as a hidden currency. Basically, we want to clear one thing, cryptocurrency is not physical currency that no one have it in form like physical things. It's value in market increases as increase in demand. Cryptocurrency is the most trending subject of today's market. Cryptocurrency is a digital currency that helps for fast, effective, and secure transaction. When implemented with decentralized control, each cryptocurrency works through distributed ledger technology, typically a blockchain, that serves as a public financial transaction database. Cryptocurrency is the private digital currency in which transactions recorded into public ledger and maintained in different systems with help of blockchain technology.

Index Terms: Crypto, Cryptocurrency, Market, Effective, Secure, Transactions, Technology, Blockchain, Digital.

I. INTRODUCTION

The cryptocurrency market is a rapidly growing and evolving industry. In 2021, the total market capitalization of cryptocurrencies surpassed 3 trillion dollar. This growth has been driven by a number of factors, including the increasing adoption of cryptocurrencies by businesses and institutions, the growing interest in decentralized finance (DeFi), and the rise of non-fungible tokens (NFTs). As the cryptocurrency market continues to grow, so does the need for tools that can help users track prices, manage portfolios, and conduct research. The "Advanced Personalized Cryptocurrency Tracker – Crypto scout" project aims to address this need by developing a comprehensive and user-friendly platform that provides users with the information they need to make informed investment decisions. The word "crypto currency" is used to refer to a specific type of digital currency that is intended to operate as a medium of exchange through the utilization of computer networks, as opposed to depending on centralized authority such as governments or financial organizations.

II. LITERATURE SURVEY

This article explains what cryptocurrency is and begins to answer some of the most common questions asked by beginners. The main purpose of this study is to provide information for those unfamiliar with cryptocurrencies. It is suitable for those who want to invest online while dealing with economic activities such as buying, selling and trading.

Apart from this, it also shows how the item can benefit the user and advises them on the best buys. This article presents a web project designed and developed using the Python programming language. [1] The main purpose of creating this platform is to give users easy access to cryptographic information. We have designed our user interface in such a way that users can easily navigate each page without any hassle. The project stands out in the field for the intuitive nature of its graphical user interface and its ability to accurately monitor Bitcoin exchange operations within milliseconds. In addition to this, we are considering including some additional complications in the project to provide more in-depth facts about different cryptocurrencies. [2] In this project, we have successfully developed an extension for Google Chrome that displays the value of the top 10 cryptocurrencies in real time. There are many cryptocurrencies and tracking them is busy with this extension we can use a chart form in one place which makes price tracking easier. Since the data is in tabular form, consisting of historical highs and lows and real-time data, it is easier to plot and draw future trends and market theories. [3] This article proposes the use of graphs to model and visualize the flows of funds on a blockchain. The concept of graph here comes from graph theory, which refers to a graph composed of nodes and edges. A transaction on the blockchain consists of a list of input addresses and a list of output addresses. There is a relationship between the input address and the output address of the transferred amount. In output visualization results, input addresses and output addresses are represented by dots, and lines represent quantities. This way you can see the flow of funds in the graph. [4] This article is devoted to the study of blockchain wallet transactions related to the trafficking of illicit substances in Russia. A blockchain transaction visualization method is proposed to facilitate the analysis of the expenditure of financial resources by specific addresses. The project also produced several diagrams illustrating the cryptocurrency transfer system between participants in the "Shadow" scheme. And the database consisting of these wallets, in which the Bitcoin wallets of network participants are stored.[5]

III. MOTIVATION

The motivation behind this research is to create a platform where people can learn about Cryptocurrency and know market trends. This website helps to keep track of your favourite Crypto coin by showing coin prices in the last 24 hr, three days, 30 days, and one year. The coin pricing history is shown in graphical format, which makes it easy to track Crypto coin prices and decide which coin will be best for investment. There are a few issues with the existing cryptocurrencies tracker that have caused some problems. One issue is that data present on cryptocurrencies tracker websites are overwhelming. There is a lot of unnecessary information available. The user interface is not straightforward. These things encouraged us to create a website where only necessary information regarding cryptocurrencies is provided, which will be enough for a normal user who just wants to know the current trend of the crypto market.

IV. EXISTING SYSTEM

existing traditional cryptocurrency trackers often include the following features:

Portfolio Tracking: Users can input and track their cryptocurrency holdings across multiple wallets and exchanges. The tracker provides real-time updates on the value of their portfolios, including individual coin prices, total portfolio value, and percentage changes.

Price Alerts: Users can set customizable price alerts for specific cryptocurrencies. When the price hits a certain threshold, users receive notifications via email, SMS, or within the app to stay informed about market movements.

Market Analysis Tools: Cryptocurrency trackers offer various tools and charts for technical analysis, such as candlestick charts, trendlines, and moving averages. These tools help users analyze price movements and make informed trading decisions.

News Aggregation: Many trackers aggregate news articles and updates from reputable sources within the cryptocurrency space. Users can stay up-to-date with the latest developments, regulatory news, and market sentiment that may impact prices.

Historical Data: Users can access historical price data for cryptocurrencies, allowing them to analyze past performance and trends. This feature helps users identify patterns and make predictions about future price movements.

Exchange Integration: Some trackers integrate with cryptocurrency exchanges, allowing users to execute trades directly from the platform. This streamlines the trading process and provides access to liquidity across different markets.

Security Features: To protect user data and assets, cryptocurrency trackers implement security measures such as encryption, two-factor authentication (2FA), and secure API integrations with exchanges.

User Interface (UI) and User Experience (UX): A user-friendly interface is essential for cryptocurrency trackers, making it easy for users to navigate the platform, view information, and perform actions intuitive.

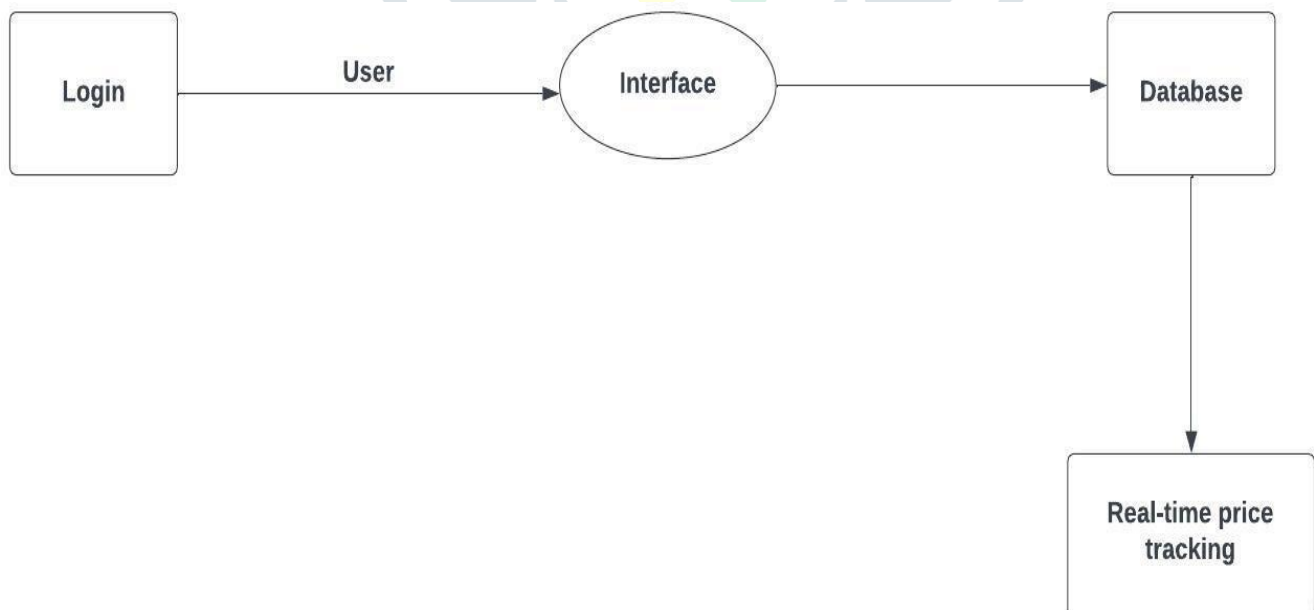


Fig1: Block Diagram

V. RESEARCH METHODOLOGY

Cryptocurrency refer to online exchange using internet for financial exchange transactions. Cryptocurrency is said to be secured as it uses cryptography. Cryptography is a technique in securely purpose of information and communication via use of codes and

various algorithms. The Cryptocurrency Tracker web application is supposed to guide the new comer 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.

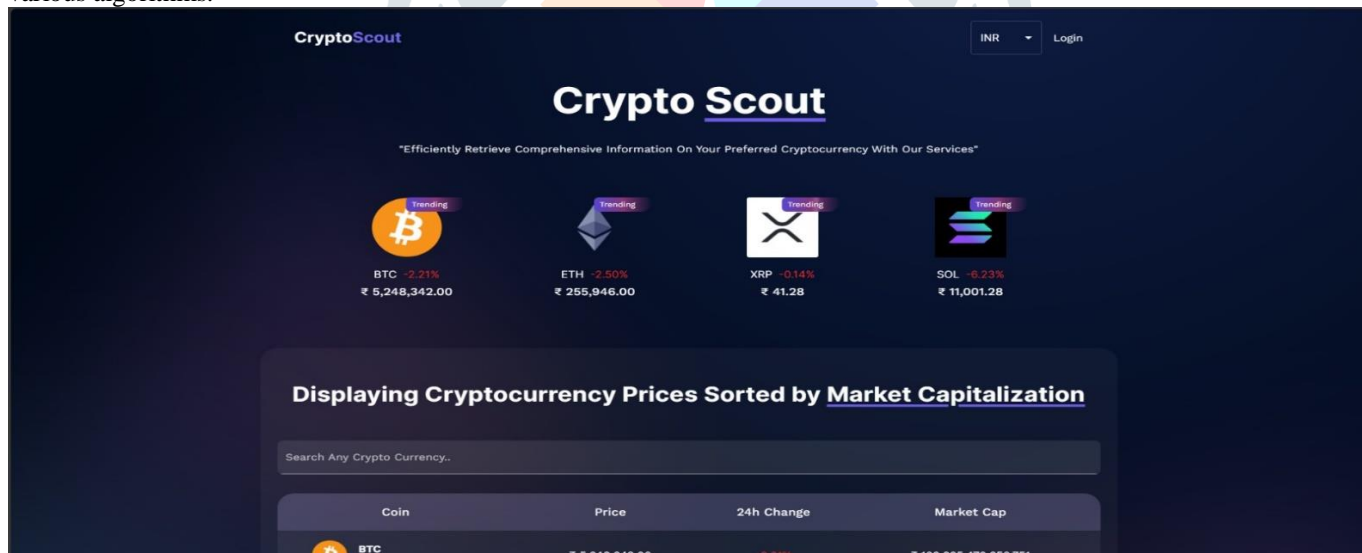
Cryptocurrency Tracker application is made in such way that anyone can use in very easy manner. For registration, you can sign up with your google account and we are preparing to enable registrations independently using other options such as sign in using Facebook, LinkedIn, Twitter and other platforms 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. System flow of this application gives overall working of web application. There is one search bar provided so that user can access coin by the name. Now in coin page, we have also provided coin information, Coin logo with its Rank. The main thing is that we had used graphical representation of cryptocurrency prices so that we can present more information about crypto coins. In this coin pages we have provided current coin prices up to last one year. Each time stamp has separate graphical view. This helps new crypto users to recognize market cap. With coin Page we also implemented one bracket of watchlist. In is provided since user will get direct access to favorite 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.









VI. RELATED WORK AND DISCUSSION

CryptoScout refer to online exchange using internet for financial exchange transactions. Cryptocurrency is said to be secured as it uses cryptography. Cryptography is a technique in securely purpose of information and communication via use of codes and various algorithms.

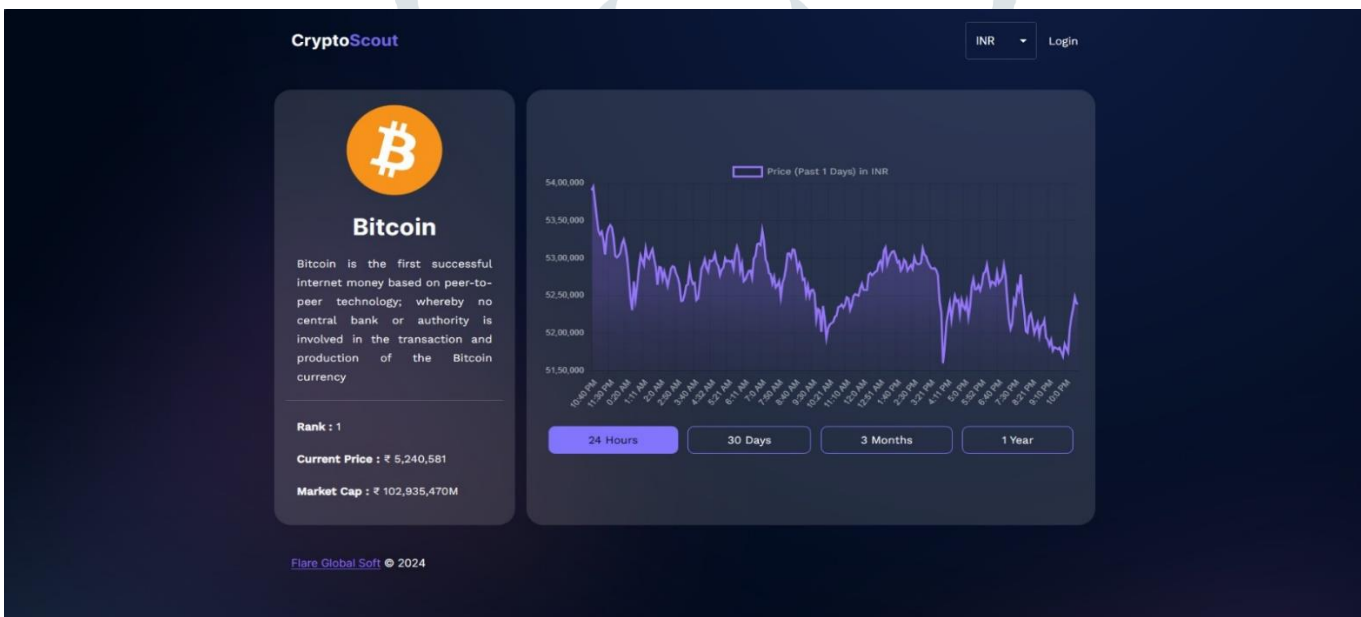


Displaying Cryptocurrency Prices Sorted by Market Capitalization

Search Any Crypto Currency..

Coin	Price	24h Change	Market Cap
 BTC Bitcoin	₹ 5,248,342.00	-2.21%	₹ 102,935,470,650,751
 ETH Ethereum	₹ 255,946.00	-2.50%	₹ 30,591,298,439,984
 USDT Tether	₹ 83.73	+0.18%	₹ 9,065,014,763,625
 BNB BNB	₹ 44,686.00	-4.75%	₹ 6,863,298,262,546
 SOL Solana	₹ 11,001.28	-6.23%	₹ 4,895,501,908,644
 USDC USDC	₹ 83.94	+0.42%	₹ 2,715,906,115,898
 STETH Lido Staked Ether	₹ 255,248.00	-2.61%	₹ 2,388,270,899,961
 XRP XRP	₹ 41.28	-0.14%	₹ 2,274,482,316,594

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VII. Acknowledgment

We would like to express our sincere gratitude for providing valuable insights and guidance in crafting the results and discussions section of the system. Your expertise and understanding of the subject matter greatly contributed to the clarity and depth of the analysis presented herein. Additionally, we extend our appreciation to the team behind the Cryptocurrency Tracker web application for their efforts in developing and implementing the platform. Without their dedication and hard work, this research would not have been possible.

Finally, we would like to thank the reviewers and editors for their constructive feedback and suggestions, which helped improve the quality of the system. This research was made possible by the collaborative efforts of all those mentioned above, and we are grateful for their contributions.

VIII . CONCLUSION AND FUTURE SCOPE

The result of this system is a web application that is able to give current as well as past prices of cryptocurrencies. This system is also give's graphical representation of crypto prices. We are preparing to provide other facilities such as trading with cryptocurrency in upcoming days. Enable some registration options for user so that user can easily register.

IX . REFERENCES

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