

# Cryptocurrency Tracker

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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.

**Key Words:** *Crypto, Cryptocurrency, Market, Effective, Secure, Transactions, Technology, Blockchain, Digital.*

## 1. INTRODUCTION

Cryptocurrency is most in demand these days and many people are investing in these currencies to get high returns. Many websites and applications provide us with information about the exchange rates of various cryptocurrencies available on the Crypto Market. The main goal of creating this platform is to provide easy access to cryptocurrency overviews for users. We designed our user interface to make it easy for the user to explore each page seamlessly. The web application offers compactness and it is user-friendly. The main motive behind this project is to give information about current as well as up to one year past crypto market and provide a simple user-friendly web application.

### 1.1 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]

## 2 Flow chart for System

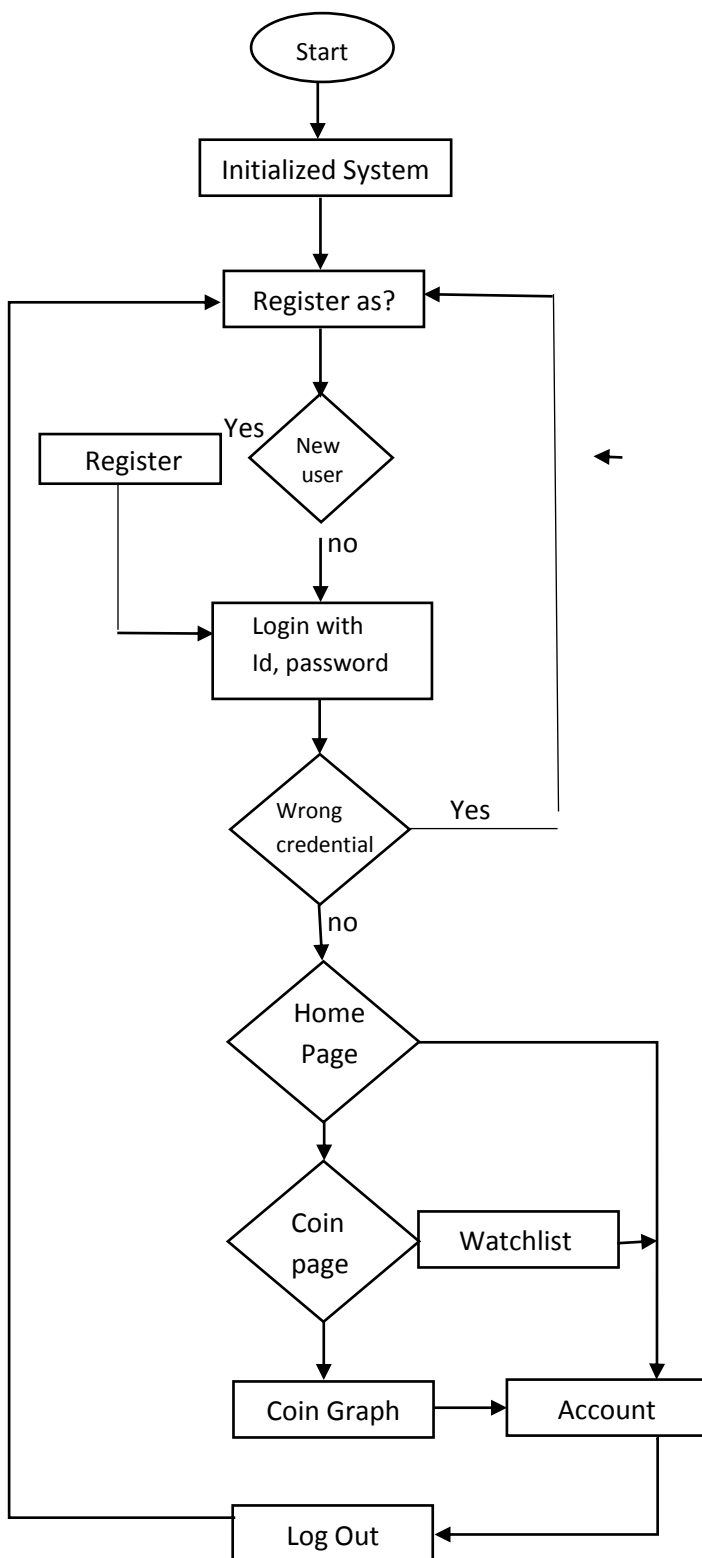


Fig. System Flow Chart

## 2. Related Work

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.

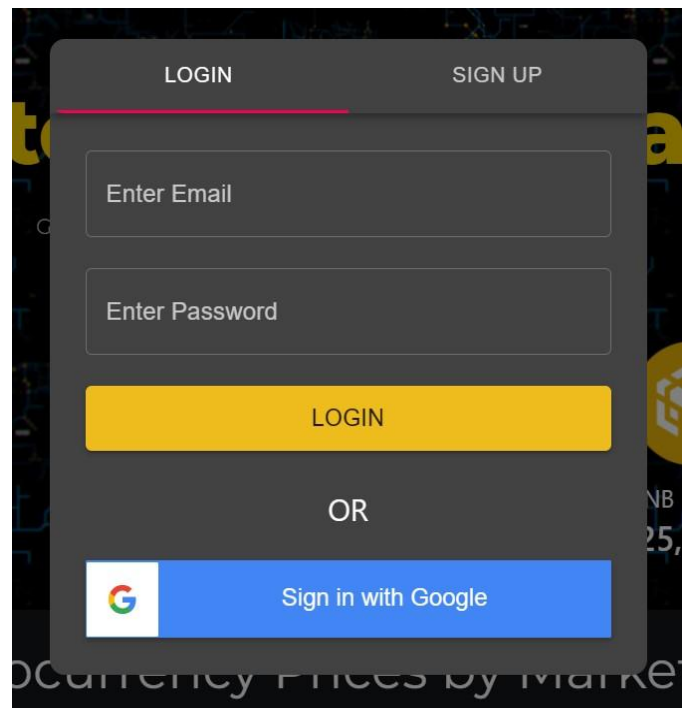


Fig. Login Page

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.

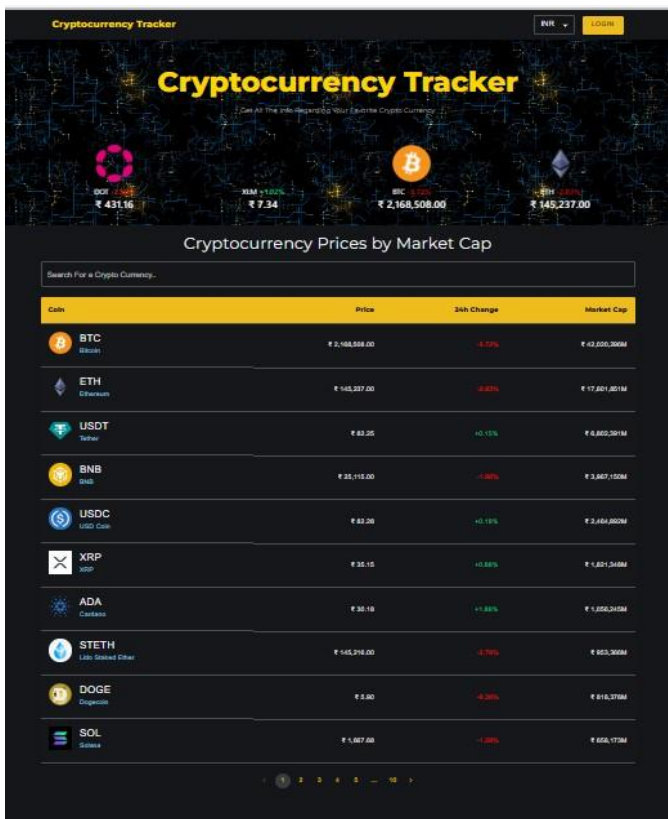


Fig. Home Page

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.



Fig. Bitcoin page

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.

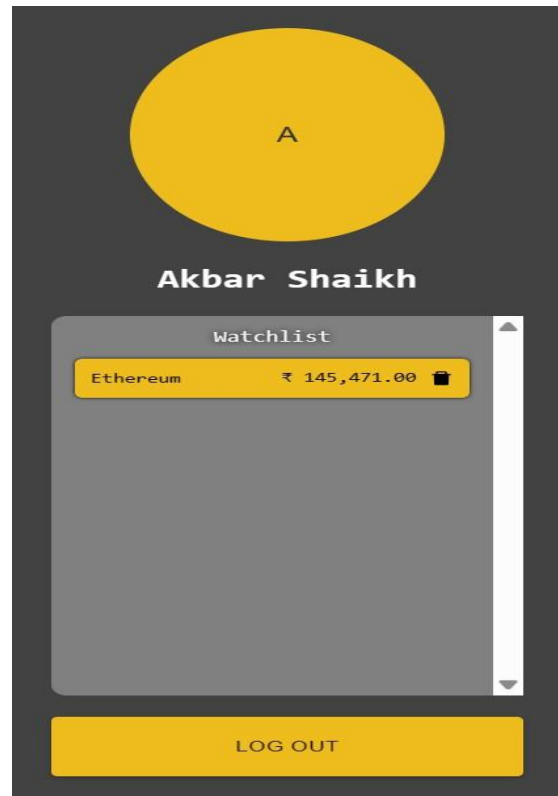


Fig. Watchlist Table

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.

### 3. 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.

## REFERENCES

[1] Della - Cryptocurrency Price Tracker by Shweta Saxena, Priyanshi Goyal, Prachi.

[2] A Research on Crypto Currencies Performance Tracker and Data visualization App by Saransh Bhardwaj, Sankalpa Basu, Mridul Pal.

[3] A Research on Crypto-Tracker Browser Extension by Gauri Rao, Sourabh Kumar Jha, Sadiq Hussain, Swastik Gupta.

[4] Biteye: A System for Tracking Bitcoin Transactions by Zhen Li, Jinze Li, Yi Zheng, Baiqiang Dong.

[5] Tracking Transactions in Crypto Currencies Using the Graph Theory by Danil A. Subbotin, Maria A. Antropova, Pavel V. Sukharev.

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