

**Project Synopsis**

**“Cryptopia using** **Web Programming”**

**Submitted By**

**Sanyam Gupta (2210993842)**

**And**

**Pratham Gupta (2210993827)**

**Problem Statement**

* **With the rise of cryptocurrencies, there is an increasing need for a secure and user-friendly platform for trading and exchanging digital assets. While there are many crypto exchanges in the market, most of them lack a robust security mechanism, ease of use, and a wide range of trading options.**
* **Our college project called Cryptopia aims to address these challenges by creating a comprehensive and user-friendly crypto exchange platform. Cryptopia aims to offer a secure platform that provides traders with a wide range of features such as real-time price tracking, trading charts, order books, and advanced trading tools. Additionally, Cryptopia will provide a user-friendly interface that is easy to use for both novice and experienced traders.**

**Introduction**

**What’s Cryptocurrency and how it works?..**

* **Cryptocurrency is a revolutionary digital currency that operates independently of any government or financial institution. It is designed to be a decentralized and secure form of currency, using advanced cryptography to keep transactions safe and transparent.**
* **Cryptocurrencies offer a range of benefits over traditional fiat currencies, such as low transaction fees, fast processing times, and a high level of privacy and security. They can be bought and sold on cryptocurrency exchanges, and can also be used to purchase goods and services online.**
* **However, the world of cryptocurrency is also highly volatile and constantly evolving. The value of cryptocurrencies can fluctuate widely in a short period of time, making it a risky investment. Additionally, regulation and adoption of cryptocurrencies vary widely across different countries and jurisdictions, adding to the complexity of this exciting and rapidly changing field.**
* **Cryptocurrency exchanges and trading platforms are digital marketplaces where users can buy, sell, and trade various cryptocurrencies. These platforms offer a convenient and efficient way to exchange digital assets, and are designed to be user-friendly for both novice and experienced traders.**
* **Each exchange offers different features, such as trading pairs, order types, and charting tools, to help traders analyse and execute their trades. Some exchanges even offer margin trading and futures trading for advanced users.**

**Technology**

* **Languages :- In this project we have used HTML, CSS and JavaScript. These languages/frameworks are typically used for Web Development.**
* **Custom Background and Custom icons.**
* **API network for displaying Live Crypto Updates.**

**Flowchart**

Buy Crypto Online

Enter your purchase limit

No

Yes

Validates

Sell Online

Show the Trade Orders

Choose the Trade

Seller gives amount based on Trade limit

Conversation

Open Seller Order Contact

Submit Account Details

Seller marks for Payment

Buyer View Contact

Open Placed in Buyer Contact

Order’s completed successfully

Validates

Seller Releases Crypto to User

Yes

No

Seller Releases Crypto

Yes

Decision

Seller and Buyer Conversation

Buyer can open Dispute

Admin releases Crypto after analyzing

Admin Control

No

**Reference**

* **GeeksForGeeks -** [**https://www.geeksforgeeks.org/fullscreen-api-using-javascript/**](https://www.geeksforgeeks.org/fullscreen-api-using-javascript/)
* **Github.io -** [**https://github.com/**](https://github.com/)
* **CoinGecko API -** [**https://www.coingecko.com/en/api/documentation**](https://www.coingecko.com/en/api/documentation)
* **YouTube -** [**https://youtu.be/VDLpDSZ88MM**](https://youtu.be/VDLpDSZ88MM)
* **Vercel -** [**https://vercel.com/**](https://vercel.com/)