North South University

Department of Electrical and Computer Engineering

Project Proposal

CRYPTO-CURRENCY TRADING SYSTEM

Database Systems (Lab)
CSE311L
Section: 3
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Introduction:

Cryptocurrency has taken the world by storm. It ushered a new age of digital finance and accounting. There are many cryptocurrencies, most popular being Bitcoin, Ethereum, Monero, AltCoins, Litecoins etc. For all these cryptocurrencies there are websites which allow consumers to buy/sell/ or trade it online via wallets. Sites which allow users to carry out such transactions include Blockchain Wallet, Electrum, Exodus, Coinomi etc. However, what all these websites have in common are complex UIs (User Interface), due to this limitation people feel intimidated to initiate a trial run and continuation. Our design will be simplistic, easy to use for the average consumer and will show only the required statistical analysis for a person to be well-acquainted with cryptocurrency.

Objective:

- To create a platform for trading cryptocurrencies.
- To provide a platform for the users to exchange existing cryptocurrency into any other form of currency.
- Get to know about cryptocurrencies and their previous statistical analysis.
- Notify the user of price changes for the cryptocurrency via email.
- Give the user their daily profit income for the currency that they have in their wallet.
- Monthly report about their cryptocurrency analysis and recommendations ("Buy More!!" or "Sell Now!!").

Target Customers:

- Crypto Traders - People who trade cryptocurrency as a profession.

- Crypto Enthusiasts - Amateurs, who just started out in the cryptocurrency market and enthusiasts, who trade cryptocurrency as a hobby/leisure activity.

Value Proposition:

- A user-friendly UI(User Interface).
- Ensuring a better platform for trading currencies.
- Fast transactions.
- Providing customers with the option to convert cryptocurrencies to any other currency and trade them.
- Giving a better experience in comparison to the banks.
- Making trading, bidding, exchange of currencies less complicated and easier.
- Ensuring a breathable web environment for both buyers and sellers.

Web Application Feature Description:

The website will open with a home page which will contain a general layout . This will contain a full description of the crypto market (all the dos and don'ts), which most wallets fail to illustrate. It will have a button and placeholder which will allow the user to begin the initial steps to create a wallet. Once a wallet has been created the user will receive a confirmation with their unique wallet address and passkey.

After creating a wallet the user will be able to:

- Purchase cryptocurrency.
- View existing cryptocurrency.
- Send and receive cryptocurrency.
- Analyze the cryptomarket and get recommendations (Buy/Sell).
- Connect with other traders, via a built-in messaging platform.

Tools and Resources:

- HTML

- CSS
- JavaScript
- MySQL
- PHP
- Web Server
- API (for notifications if needed)

Challenge:

One of the biggest challenges is security, we will need to ensure that the payment gateway is secure so that there is no miscommunication or technical issues in the transaction process. We need to check for redundancy and filter them out. Second is the verification and validation of data. Lastly, the maintenance of the site and the cost of doing so will prove to be difficult once the site is live.