**CryptoGenZ**

**Cryptocurrency for Gen-Z Class XII**

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**Project made by:**

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# **ACKNOWLEDGMENT**

I would like to express my special thanks of gratitude to my teacher and our principal Archana Ma’am who gave me the golden opportunity to do this project on the topic CryptoGenz. It helped me in doing a lot of Research and I came to know about a lot of things related to this topic.

Finally, I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

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# PROJECT SYNOPSIS

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# Overview

A cryptocurrency, crypto-currency, or crypto is a binary data designed to work as a medium of exchange wherein individual coin ownership records are stored in a ledger existing in a form of a computerized database using strong cryptography to secure transaction records, to control the creation of additional coins, and to verify the transfer of coin ownership. Cryptocurrency does not exist in physical form (like paper money) and is typically not issued by a central authority. Cryptocurrencies typically use decentralized control as opposed to a central bank digital currency (paper).

A stock market, equity market, or share market is the aggregation of buyers and sellers of stocks (also called shares), which represent ownership claims on businesses; these may include securities listed on a public stock exchange, as well as stock that is only traded privately, such as shares of private companies which are sold to investors through equity crowdfunding platforms. Investment in the stock market is most often done via stock brokerages and electronic trading platforms. Investment is usually made with an investment strategy in mind.

As Generation Z is about to step into the real world, teens are often tempted to see big traders make billions from trading cryptos. But trading in the market requires real skills, practice and patience. So we made a platform for teens where they can learn to trade without incurring any financial loss and get enough time and experience to plan successful strategies.

# Goals

1. **Create a platform to learn crypto trading**.
2. **Be able to plan strategy.**
3. **Understand Market Tends.**
4. **Get an idea of when it is the right time to sell or buy.**
5. **Get a feel of what happens in the real market and how not to get influenced by fake influencers like Elon Musk, Mark Cuban, etc,**

# **ABOUT PROJECT**

**Front-End**

The Frontend is made using Tkinter library in Python. Where users need to login first to use their trading account. To start trading we will give $1000 (our currency that replicates US Dollar). From their home screen users can see the top performing cryptos like ETH (Ethereum), LTC (Litecoin), BTC (Bitcoin), etc,

From the home screen users will have the option to either Sell Cryptos, Buy more Cryptos, On the Home Screen there will be information about the top Cryptos. Along with view CGZ (CryptogenZ) Wallet.

1. **Buy Crypto:** Whenever user clicks on Buy Cryptos a new window will emerge where users can buy any crypto along with getting information about that crypto.
2. **Sell Crypto:** Whenever user clicks sell Crypto he will be taken to a new window where they can sell their crypto and profit/loss made will be updated in CGZ (CryptogenZ) wallet.
3. **CGZ Wallet:** to see the balance in the wallet along with total profit/loss made.Along with the option to delete your account.
4. **Stock Price Checker**: User just needs to put in the name or symbol of a stock to find information about that stock. But will not be able to buy/sell it yet.

Sample of code of frontend is given below:

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# **Back-End**

The login and signup screen uses MySQL database to save user info and fetch when asked. After login a different database is used where each user is assigned a user id (primary key), CGZ (CryptogenZ) wallet balance, full name, e-mail and value of each crypto purchased eg. 2.3 BTC, etc, and is constantly updated. To get the latest price of cryptos we use cryptocompare API and currently support 15 different types of cryptos. We also show a variety of graphs that will help user take decision whether to sell or buy.

Sample of code of how we get data is below.

Graphical user interface, text, application, email

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**Modules Used**

1. Mysql.connector 8. count()

2. mysql.connector.connect() 9. math

3. mydb.is\_connected() 10. Datetime, date

4. mydb.cursor() 11. tkinter

5. mycursor.execute() 12. mycursor.fetchall()

6. mydb.commit() 13. len()

7. mydb.close() 14. mycursor.fechone()

**Database & Tables**

**Databases used: Crypto Tables used: Userdata**

# **Project Screenshots**

Graphical user interface, application

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LOGIN SCREEN

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HOME SCREEN

Graphical user interface, text, application, chat or text message

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COIN SOLD GRAPH

Chart, waterfall chart

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Graphical user interface, application, Teams

Description automatically generated TRANSFER

Graphical user interface, application

Description automatically generated TRANSACTION HISTORY

A screenshot of a computer

Description automatically generated with medium confidence DATA ABOUT COIN

# **Hardware Specific Information**

1. Arnav Suman

* MacOS version - 11.6 Apple Silicone M1

1. Shaurya Rakesh

* Windows Edition : Windows 10 Intel i5-8250U

**THANKING YOU**

