



**HexanCoin**

- smart exchange -

Whitepaper v1.1

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# INTRODUCTION

HEXANCOIN is a smart crypto-trading platform where users will be able invest their fiat money on cryptocurrencies and trade them securely, efficiently and generate profit over time.

So how are we going to do this and how much profit we are taking about ?

But before that lets take a step back and ask **WHY HEXAN ?**

Traditional currency based on economies provide very little scope of investment, particularly for the individuals or the micro investors and also in such markets, it is almost impossible to make significant profit on their investment without profound technical knowledge.

Cryptocurrency market on the other hand provides a way to make huge profit even on micro investment but there are huge risks involved with it.

## THE PROBLEM :

- The cryptocurrency market seems to be growing in popularity every day. With the rise of cryptocurrencies like Bitcoin and Ethereum, there seems to be an influx of people into the market. Many cryptocurrency exchanges cannot even afford to have their account creation feature open all the time. Such is the demand for entry into the market that trading account creation for new customers is periodically disabled. The average daily trading volume of the market is usually in trillions of dollars. The total market cap of the entire market stands at more than half a trillion dollars which is an astonishing feat considering the market is less than a decade old.
- The biggest issue in the cryptocurrency market is the excessive volatility. The prices of cryptocurrencies on exchange platforms rise and fall dramatically over a short period of time. When a tradable asset can drop by as much as 49 percent in less than 24 hours, then the volatility of the market is high. The excessive volatility in the market is mostly due the activities of “whales”. This price manipulation is possible due to the lack of position price limits/fees on many cryptocurrency trading platforms.

- Price charting is an essential part of asset/commodity trading. The problem here is the price of a cryptocurrency can vary considerably on the different exchange platforms.
- Transaction delays is a plague in the cryptocurrency market. The market is volatile and as such, delays can be costly. Traders end up missing out on favorable positions because the transaction didn't get posted on time.
- Also the lack of understanding of the cryptocurrency space due the infant nature of the market, and some peculiar economics of cryptocurrencies like "tokenomics".

## **THE SOLUTION :**

To overcome these restraints -

- Our platform find stocks that can move with range and volume by filtering the market using the \***eStack Model**.
- Price charting is done internally by us accounting the price of cryptocurrencies of numerous exchanges.
- Trading delays are things of past. Our 100% automated bot with zero human intervention makes decision in a split second on which cryptocurrencies to invest in.

\* Our platform has 2 models that relies on each other and we are able to apply it effectively to achieve maximum result in terms profit generated on investments. HEXAN model comprise of eStack Algorithm which works on top of HEXCHANGE model.

Discussed briefly below in our next section : Business Model.

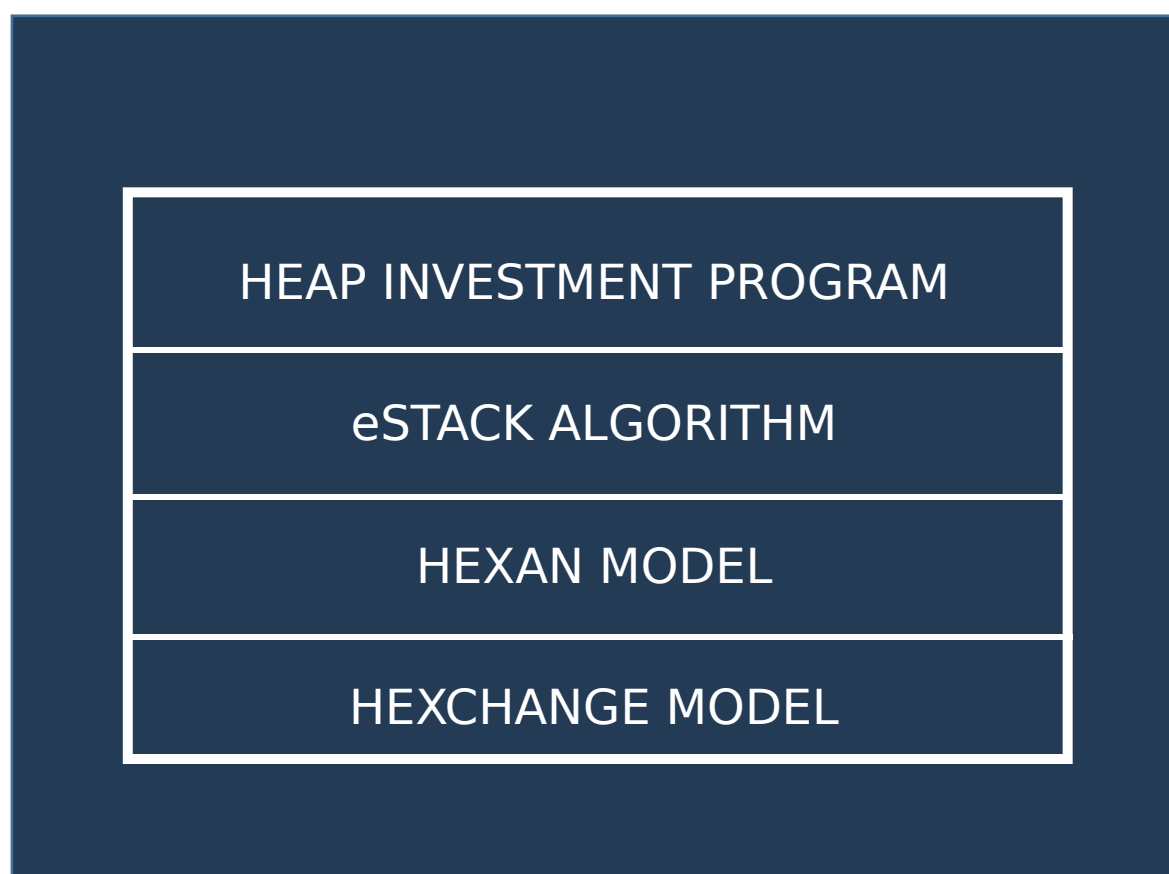
# BUSINESS MODEL

HexanCoin ( HXC ) is a bridge between HEXAN and HEXCHANGE platform. We strive to make HEXANCOIN a platform on which normal people can rely while making an investment in the crypto-market. HEXANCOIN is here to take full advantage of under-utilized crypto-market.

We present you two models : i) HEXAN & ii) HEXCHANGE

## HEXAN MODEL :

This model will work on top of HEXCHANGE model to generate profit on investments.

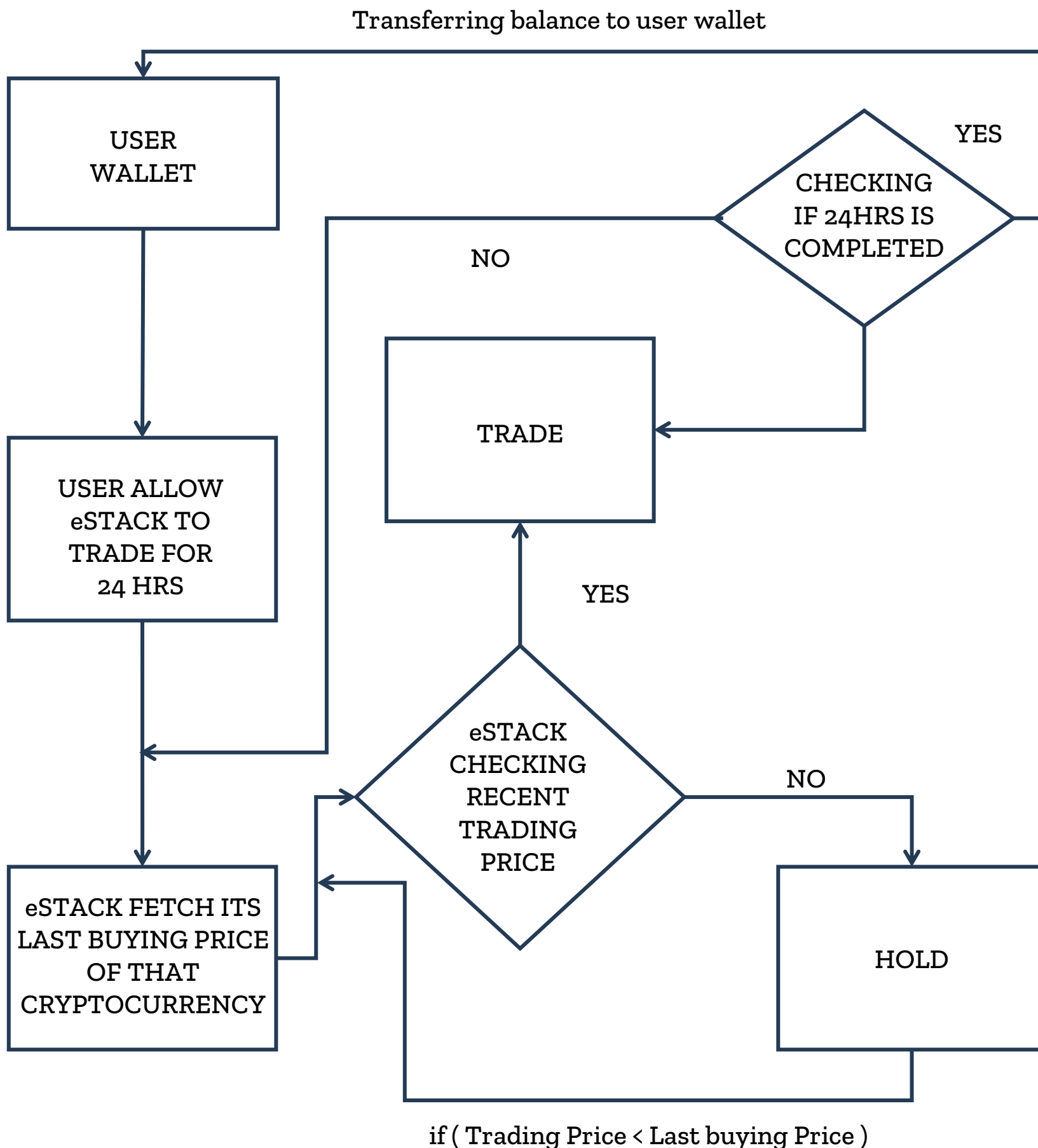


HEXANCOIN PLATFORM

## HEAP INVESTMENT PROGRAM :

In Heap Investment user will allow the eStack bot to trade on their behalf for the duration of 24 Hrs and profit generated will accordingly get distributed.

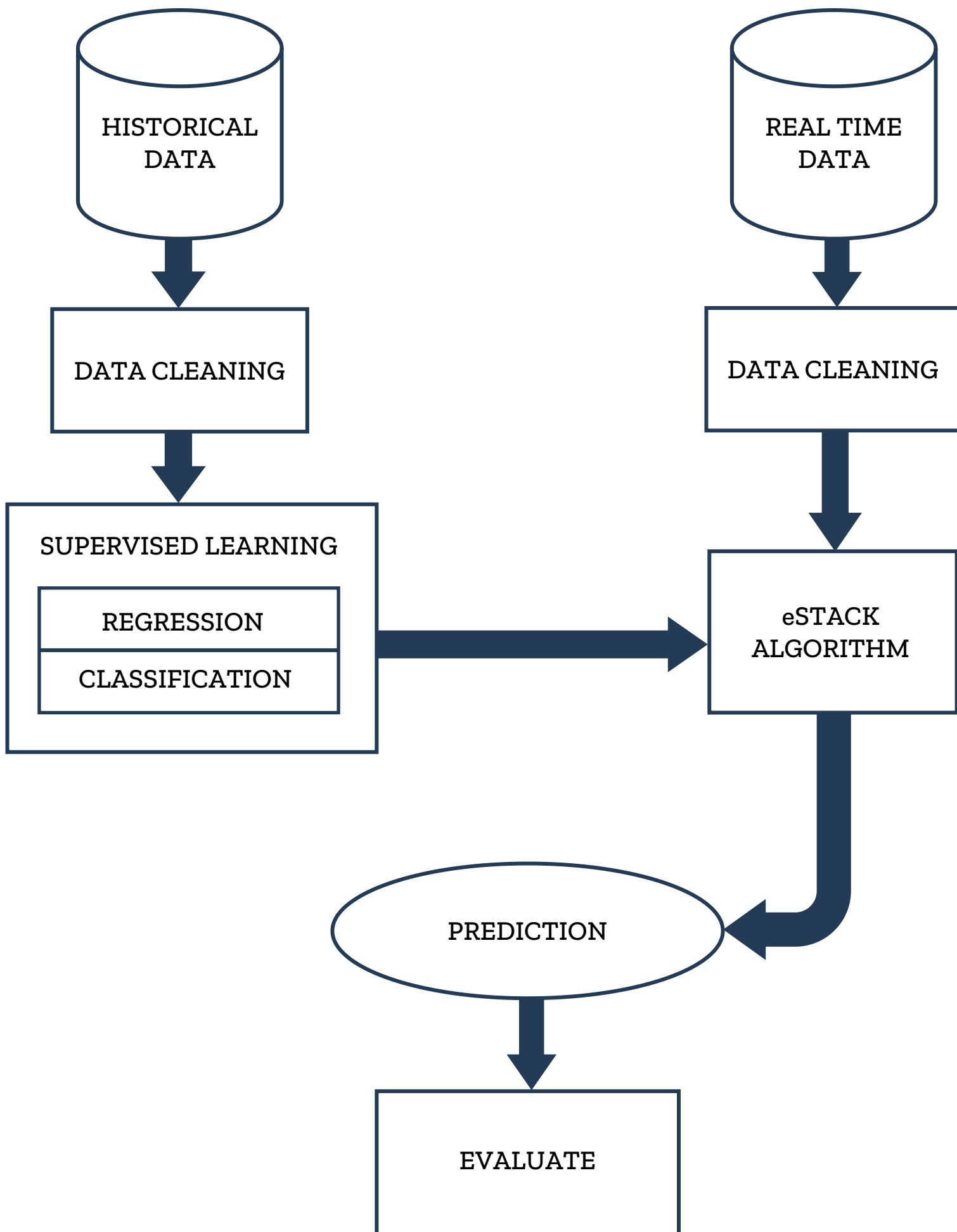
The trade engine will trade after checking the latest trading price on HEXCHANGE with user's last buying price considering exchange fees. If last buying price happens to be less than current trading price it will hold the assets till the trend continues, this way eStack bot will avoid bad investment.



These are the following feature of Heap Investment Program :

- Small investments : As little as a few hundred dollars to spare, you can start your investment journey with our platform.
- Professionally managed : The pool of money collected by the platform is managed by our cutting edge eStack Bot. Through processing of markets and economy by eStack Algorithm, it picks favourable investment opportunities.
- Spreading risk : We spreads the money across a wide spectrum of cryptocurrencies. This not only diversifies the risk, but also helps to take advantage of the position it holds.
- Transparency and interactivity : We present our investment strategy to the investors and regularly provide them with information on the value of their investments.

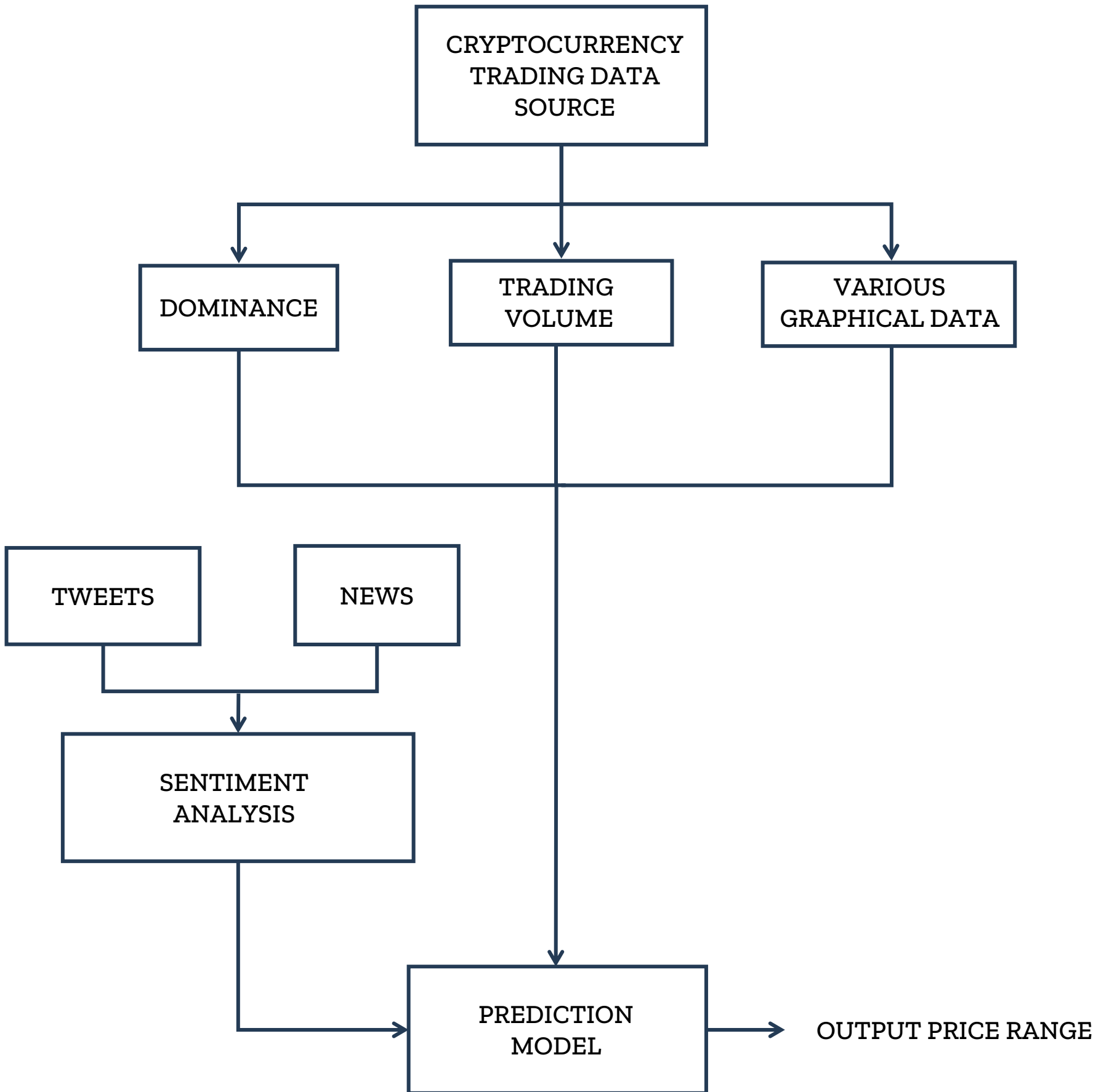
## eSTACK MODEL AND ALGORITHM :



Graphical representation of eStack Model



- In the past few years, it has been observed that most of the people are investing in the cryptocurrencies to make money easily. At the same time investor has high chance of losing all money invested. So an efficient predictive model is required for the user to understand future market trend. There are many ways by which professional traders predicts the market trend but are not readily available together within a platform. So HEXAN model tries to overcome this challenge using an algorithm “eStack” which will provide a platform for professional traders as well as naive traders to invest in the crypto-market.
- Building accurate model is difficult as variation in price depends on multiple factors such as news, social media feeds, trading volume, dominance, historical price and various graph data. Prediction model which considers only one factor might not be accurate. Hence incorporating multiple factors like news, social media feeds, historical price and various graphs data will increase the accuracy of eStack Model.
- The goal of this research work is to build a model which predicts cryptocurrencies market movement using historical data, dynamic data and sentiment analysis. All naive traders can not understand the nature of the crypto-market provided graphical data so eStack will predict value in range and percentage of increase or decrease in price.
- eStack will be build on top of several supervised machine learning algorithms considering both sentiment and historical data.This model predicts future trend.
- Sentiment has been computed by using twitter feeds and news of the crypto-currencies. Outcome of sentiment analysis is considered along with flucuations in 24 hour volume and extracted statistical parameters to build the model.
- Polarity of each item in news/tweet has been found to get the sentiment. To find the polarity of each news/tweet item one can use either dictionary based approach or semi supervised algorithm. In case of dictionary based algorithm, polarity to each word is assigned by comparing each word of news with dictionary word. In case of semi supervised algorithm initial level of dictionary is built manually then new words are categorized as either positive or negative based on occurrence of new words along with words in the built dictionary. Dictionary based approach has been used in the proposed method, as semi supervised learning might not cover-all possible combination of words.All the available data is trained by supervised machine learning algorithms. Sentiment from social media data and news are extracted.



Flow of data in eStack Algorithm

eStack model will consider so many prediction models and merging their outputs, eStack will create a user friendly output that will be price range of the cryptocurrencies so that even naive investors can also understand market status and invest accordingly.

## **HEXCHANGE MODEL :**

HEXCHANGE is a crypto-exchange which provides security of decentralization and speed of centralization, the best of both worlds.

## **MATCHING ENGINE :**

When an account makes an offer, the offer is checked against the existing open orderbook for that asset pair. If the offer match an existing offer, it is filled at the price of the existing offer.

If the offer doesn't match an existing offer, the offer is saved in the open orderbook until it cannot be fulfilled. User will be able cancel their open order.

HEXCHANGE is able to support complex order types due to the speed and flexibility of its matching engine.

## **FIAT CURRENCY SUPPORT :**

One major problem with exchanges is lack of support for fiat money such as USD, EUR. HEXCHANGE is solving this problem through banking partnerships with companies around the globe. Through this network of partners, users will be able to buy cryptocurrencies directly using fiat money to store in their wallets and trade on the exchange.

## **WITHDRAWAL :**

User can get upto 40% discount while withdrawing. HEXCHANGE also enables the user to pay the withdrawal fee using HXC coin. 40% discount in withdrawal fees is applicable only when the user holds minimum amount of HXC in their wallet.

## REVENUE GENERATION :

Commission for servicing exchange transactions	HEXCHANGE will charge a 0.25% fixed fee per trade and 0% fee on promotions.
Withdrawal Commission	HEXCHANGE may charge small fee for a withdrawals.
Accomodation Fees	HEXCHANGE will list cryptocurrencies having potential in the market, there may be a fee associated with those listings.
Other Fees	There may be other fees the platform may collect for various services.

HEXCHANGE follows the maker/taker fee structure commom to the other exchanges. The maker and taker fee is **0.25%** fixed rate. The user who holds HXC coin will get discount.

When you use HXC to pay for fees, you will receive a discount of **35%** for first 5 years after that it will reduce to **20%**.

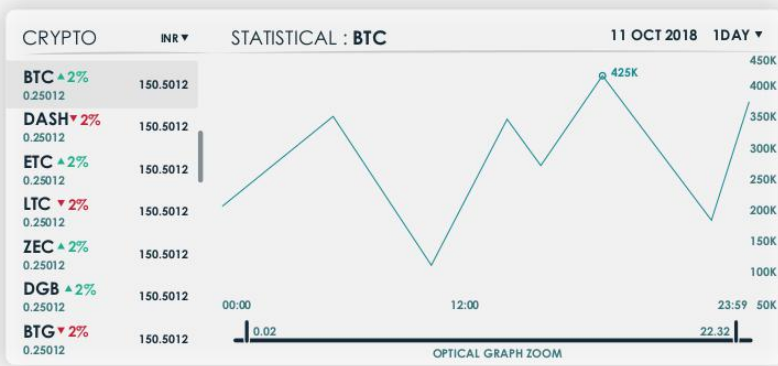
## USER INTERFACE AND EXPERIENCE :

Many exchanges are too bloated with unnecessary informations, keeping that in mind our UI & UX team members have designed following layout that is easy to navigate and manage. We are currently in our testing phase of the application for iOS and android and will be launched as per roadmap.



Our web based exchange is ready and also currently in testing phase. We hope to launch sooner than expected. We will be launching both our client side exchange application in 2 modes, dark and light. Here is a sneak-peek of our web-based exchange UI.





TRADE

Volume: BTC

Price: INR

Total: INR

BUY SELL

COMMISSION 0.05 - 0.1%

TRADE HISTORY 11 OCT 2018

Time	Price	Volume
------	-------	--------

BUY REQUEST

Volume(BTC)	Amount(INR)
-------------	-------------

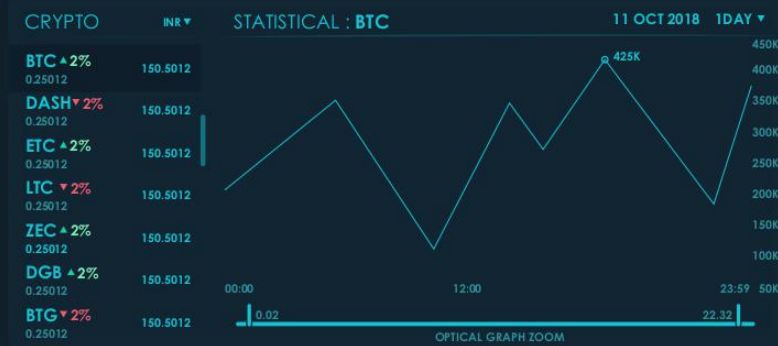
SELL REQUEST

Volume(BTC)	Amount(INR)
-------------	-------------

MY OPEN ORDERS | MY TRADE 1 Week

Date	Price INR	Volume BTC	Amount INR
------	-----------	------------	------------

HexanCoin exchange in light-mode



TRADE

Volume: BTC

Price: INR

Total: INR

BUY SELL

COMMISSION 0.05 - 0.1%

TRADE HISTORY 11 OCT 2018

Time	Price	Volume
------	-------	--------

BUY REQUEST

Volume(BTC)	Amount(INR)
-------------	-------------

SELL REQUEST

Volume(BTC)	Amount(INR)
-------------	-------------

MY OPEN ORDERS | MY TRADE 1 Week

Date	Price INR	Volume BTC	Amount INR
------	-----------	------------	------------

HexanCoin exchange in dark-mode

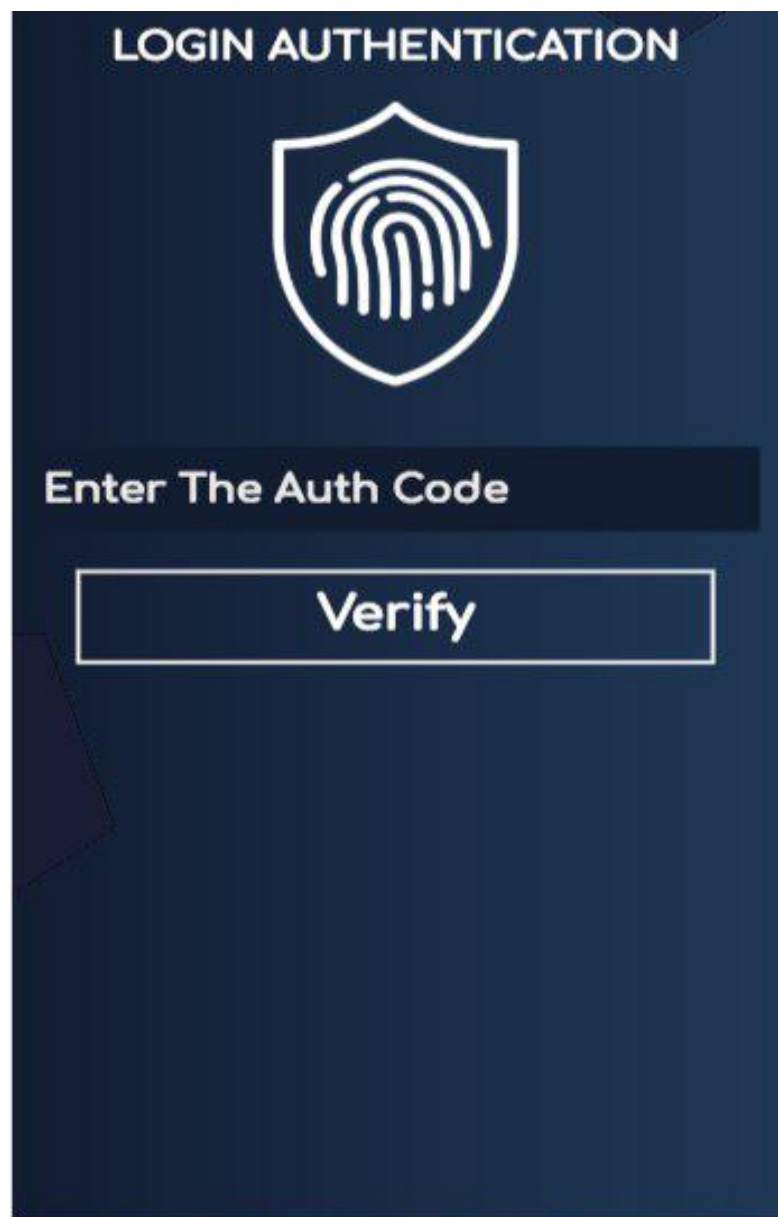
## SECURITY :

By leveraging the power of smartphones in our hands we are providing state-of-the-art technology to secure your cryptocurrency wallet with our HEXSecure application.

HEXSecure provides direct connectivity to our virtual server to authenticate users while logging in and transferring assets. Currently in beta stage, the application will be available for both iOS and Android smartphones having 2-Factor Authentication (2FA) and biometric fingerprint security only on fingerprint capable devices. You will have to enable 2FA in your account while registering for our services.



*Enabling 2FA in account settings*



*Asking for Auth-Code while logging-in*

To make the system more robust and to avoid potential hack we will be storing private key of wallets in ethereum blockchain.

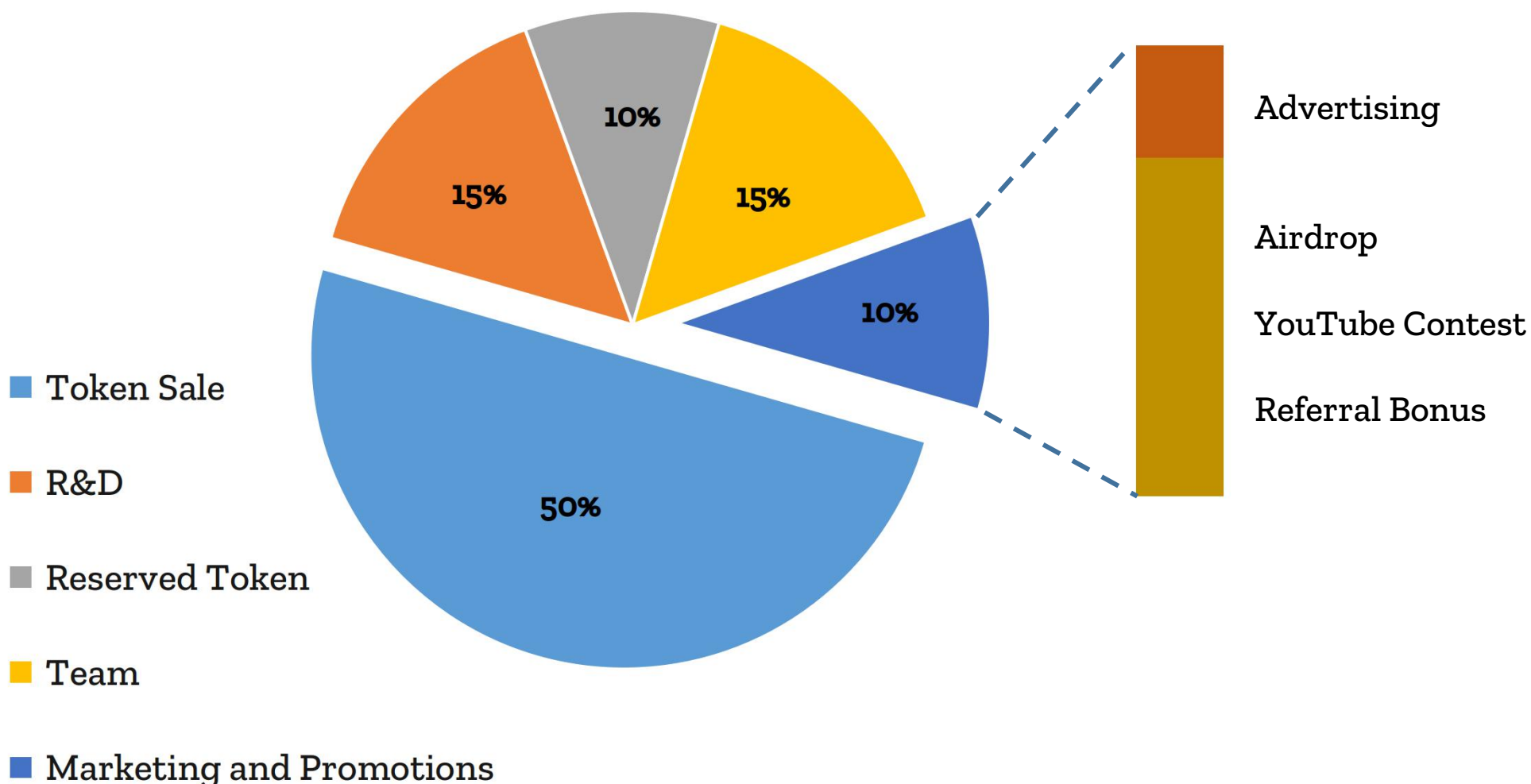
# TOKEN OVERVIEW

## TOKEN SPECIFICATION :

The investment currency is HexanCoin ( HXC ), an ERC20 standard token developed on Ethereum blockchain. A strict limit of 220MM HXC will be created, never to be increased.

Name	HexanCoin
Symbol	HXC
Platform	Ethereum Blockchain ERC 20
Maximum Supply	220 Million
Circulating Supply	132 Million
Consensus Mechanism	Proof of Stack

## TOKEN DISTRIBUTION :





## TOKEN SALE :

We are scheduled to release our -

- Pre-ICO on **26 Oct 2018 - 10 Nov 2018, 15:00 HRS ( UTC )**
- ICO on **20 Nov 2018 - 20 Dec 2018, 15:00 HRS ( UTC )**

Investors will receive HXC tokens within 7 working days after the ICO finishes.

The detailed schedule is as below:

Coin Offering	% of Total Volume	Amount (HXC )	Price (USD)	Duration
Pre-ICO	10%	22000000	0.11	14 Days
ICO	40%	88000000	0.15	30 Days

\* The accepted currency during the Pre-ICO & ICO are Ethereum and Bitcoin.

## RESEARCH AND DEVELOPMENT :

15% will be used towards improving existing services and developing new products. Refer Roadmap.

## RESERVED TOKEN :

10% will be kept in reserve to cope with any emergency or unexpected situation that might come up.

## TEAM :

15% will be used to improve and hire new team members.

## MARKETING AND PROMOTION :

10% will be used to promote HEXANCOIN through various schemes and programs.

Discussed briefly in our next section.

## SMART CONTRACT :

As Vitalik Buterin, co-founder of Ethereum explained it at DC Blockchain Summit, in a smart contract approach, an asset or currency is transferred into a program **and the program runs this code and at some point it automatically validates a condition and it automatically determines whether the asset should go to one person or back to the other person, or whether it should be immediately refunded to the person who sent it or some combination thereof.**

We have written and deployed our own smart-contract to facilitate automation and provide security to the investors. Here is the code snippets of burn function and a link to [Github](#) for our smart contract.

```
function burn(uint256 _value) returns (bool success) {
    if (balances[msg.sender] < _value) throw;
        if (_value <= 0) throw;
    balances[msg.sender] =
    SafeMath.safeSub(balances[msg.sender], _value);
    totalSupply = SafeMath.safeSub(totalSupply, _value);
    Burn(msg.sender, _value);
    return true;
}
```

The following code is of **burn()** function, which first checks if user have enough to burn following which it will subtract the amount and update the total volume.

The unsold tokens will burnt which will help let us fully control the flow of token to avoid price dump.

# MARKETING AND PROMOTIONS

## AIRDROP :

2,000,000 HXC for first 40,000 participants.

- Conditions:

- Join the main [Telegram community group](#) of the project, and you will be automatically eligible for Airdrop.
- Each participant must follow to our [Twitter handler](#).

## YouTube CREATOR CONTEST :

Top 50 video based on views and uniqueness of content will be rewarded upto \$1000 worth of HXC. Views will be taken into account till ICO lasts.

- Conditions:

- The video on YouTube should be atleast 2 minutes long.
- You must have atleast 1000 subscribers.
- There should be a link to our website and Whitepaper in the description of your video.

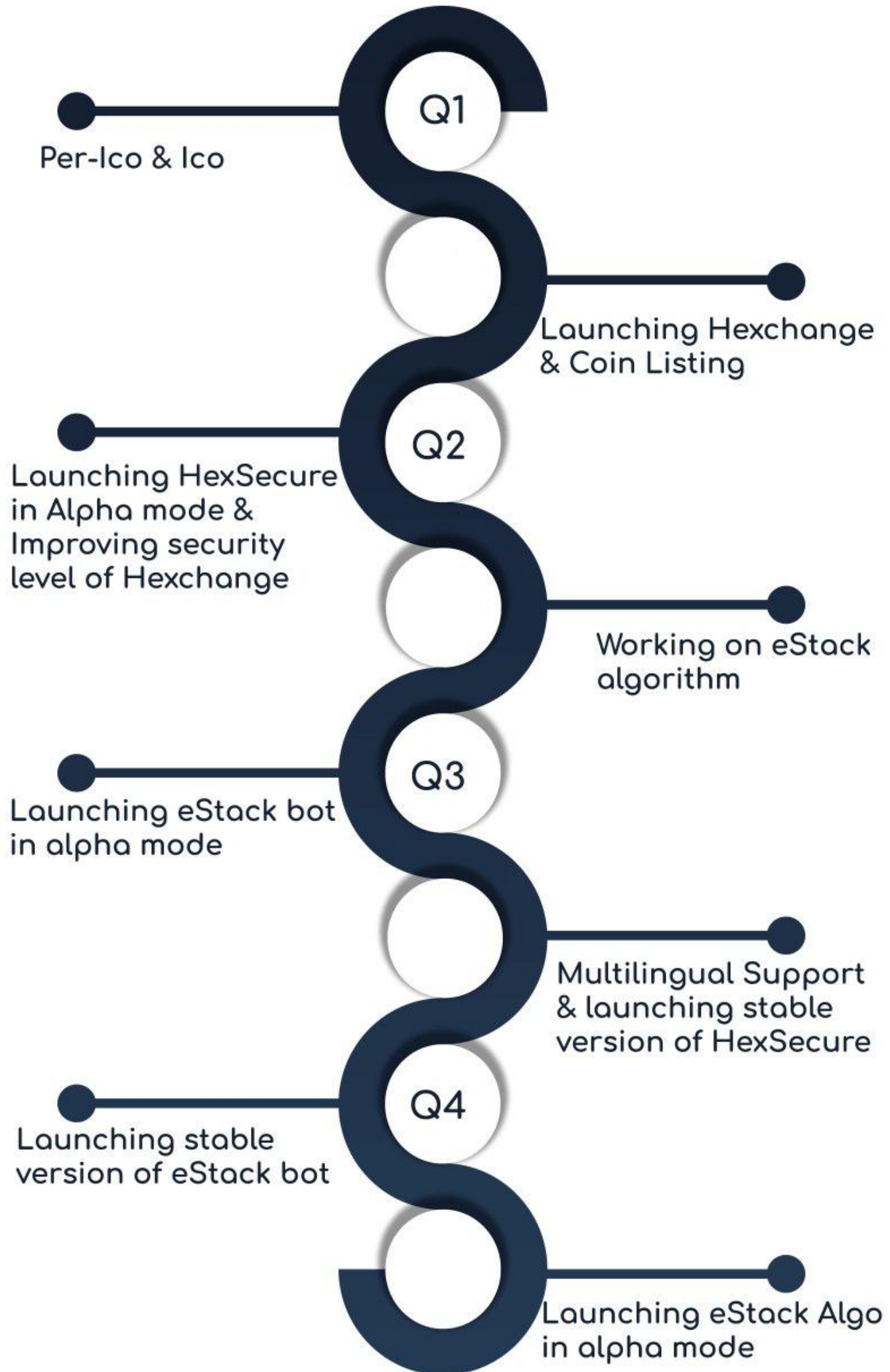
You must submit your channel's name, video link and your ethereum wallet address in our website to participate.

\* Winners will be announced within 1 week after ICO completion.

## REFERRAL PROGRAM :

HEXANCOIN is offering an exciting affiliate program which has the potential to earn through referrals. Every registered member in HEXANCOIN has his own unique referral URL. If any of your referral invests, you can earn upto 10% of their every investment, i,e; a referral of yours invests \$10,000 equivalent of HXC and you are rewarded \$1000 equivalent HXC as referral bonus. Join our affiliate program today and start earning your reward !

# ROADMAP



# TEAM



## **Shekhar Kahar**

Co-founder, Full-Stack Developer and Blockchain Enthusiast



## **Preety Kumari**

Co-founder, Machine Learning Engineer & eStack Project Head



## **Anupam Chakrawarti**

Co-founder and System Administrator



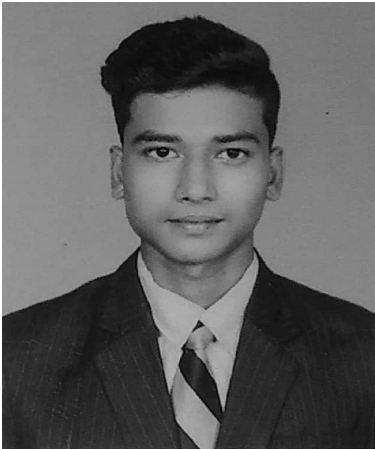
## **Atul Bariyar**

Backend Developer and Technical Advisor



## **Mohini Kumari**

Legal Advisor



## **Rahul Kahar**

Marketing Advisor



## **Asmita Chakraborty**

Tech-support Team Head

# COMMUNICATION

You may not have all your questions answered about our services from our website or whitepaper. Our support team is ready available to answer any of your inquiries 24x7 so feel free to write to us and you can get in touch through our website, email and social media handles

Twitter : <https://twitter.com/hexancoin>

Facebook : <https://www.facebook.com/CoinHexan/>

Reddit : <https://www.reddit.com/user/HexanCoin>

Telegram : <https://t.me/HexanCoinCommunity>

HexanCoin Help Desk : [contact@hexancoin.info](mailto:contact@hexancoin.info)

Our marketing team will be active on all social media channels and we will keep you up to date with our progress and latest news.

## REFERENCES :

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