



Redannet



PEER TO PEER CRYPTO EXCHANGE



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1. ABSTRACT

The Digital Economy is growing its activity based on digital technologies. The Digital Economy includes the online sales of goods and services (e-commerce) as well as the online platform and infrastructure for commercial transactions (e-business). In 2012, the Boston Consulting Group assessed the potential of the Digital Economy of the G20 countries alone at \$4.2 trillion (USD).

Furthermore, in 2015, Oxford Economics and Accenture's joint research concluded that by 2020, the Digital Economy will contribute to the global gross domestic product by \$1.36 trillion (USD).

Online purchases are the new norms and new digital goods and services are being offered every day. These developments spur the growth of the Digital Economy. Currently, the Digital Economy is the primary driver for the World Economic Growth. The rapid growth of the Digital Economy increased the demand for on-line payments. As such, Crypto Currency became an increasingly popular solution to meet the requirements of the Digital Economy. Crypto Currency are digital monetary units that operate independently of a central bank and is permission less to use. Its transaction information, usually stored on a general ledger, is open and available for system participants to view. Furthermore Crypto Currency generally do not appeal to authorities such as central banks, tax authorities, or judicial systems. This means that, generally, these entities cannot influence transactions of participants in the Crypto Currency payment system.

Furthermore, Crypto Currency transfer is irreversible; third-party entities cannot cancel, block, dispute or carry out a transaction unilaterally. Consensus rules and encryption techniques are used to regulate the generation and issuance of Crypto Currency.



2. Market Analysis

2.1 Review of existing stock exchanges

Today, exchange trade is represented by the classical stock market (stock and securities market), as well as the Forex market and the Crypto Currency market. The number of exchanges totals about 400 websites. 170 exchanges specialize in Crypto Currency. The top-50 exchanges for more than 95% of the total trading volume :

№	Exchange groups	The range of trading volumes in groups (24h/\$)		The amount of trading in groups of exchanges *(24h/\$)		Turnover share(%)		Exchange market growth (24h/\$)
		as of 25.09.2017	as of 11.01.2018	as of 25.09.2017	as of 11.01.2018	as of 25.09.2017	as of 11.01.2018	Exchange market growth(24h/\$)
1	1 - 10	60 000 000 - 300 000 000	1 000 000 000 - 5 900 000 000	1 474 100 000	25 145 801 269	70,3	75,1	x17
2	11 - 20	20 000 000 - 60 000 000	200 000 000 - 900 000 000	357 968 750	4 791 151 082	17,1	14,3	x13
3	21 - 30	7 000 000 - 20 000 000	120 000 000 - 220 000 000	120 875 000	1 628 252 080	5,8	4,9	x13
4	31 - 40	3 500 000 - 7 000 000	50 000 000 - 120 000 000	58 975 000	786 026 981	2,8	2,3	x13
5	41 - 50	2 500 000 - 3 500 000	35 000 000 - 50 000 000	35 023 000	425 659 326	1,7	1,3	x12
6	51 - 60	1 500 000 - 2 500 000	15 000 000 - 20 000 000	13 212 500	163 964 541	0,6	0,7	x10
7	61 - 70	1 000 000 - 1 500 000	10 000 000 - 15 000 000	7 012 000	114 977 176	0,3	0,3	x16

Two types of exchange websites currently trade Crypto Currency assets: centralized (CEX) and decentralized (DEX).

2. Market Analysis

2.2. Centralized exchanges (CEX)



Centralized exchanges (CEX) were formed in the initial stage of the emergence of the Crypto Currency industry: the first exchange tGox.com was founded in 2010 for trading bitcoins. Today, many CEX users misrepresent the flow of traded and purchased funds, since the purchase and sale of Crypto Currency between members of one exchange does not mean the transfer of ownership of the asset from one participant to another.

For example, a user purchased USD on CEX and afterwards used it to buy BTC. It is important that both currencies were issued by the same exchange, while users are actually operating virtual accounts, but they are not the real owners of the assets that they transferred to the exchange accounts. In this case, only the exchange determines the fee amounts at each stage, which data and transactions to record in history or the back-office.

There are cases when the stock exchanges did not have the necessary funds to fulfill financial obligations to the owners of virtual accounts. Many centralized exchanges were simply not ready for the recent influx of users, which led to major system failures and attracted the attention of hackers. In connection to this, there were a number of system failures, such as the Redan hacking, which caused thousands of users to lose their savings (until they were reimbursed later on).



3.1. Third party effect

The rapid development of the Crypto Currency market became especially noticeable in the spring of 2017. Regulators of many countries are unable to instantly react to a new economic component and are considering various approaches to the legislative norms, requirements and standards that participants will have to meet. Many countries are only at the stage of drafting bills, but regardless of the law, centralized exchanges will remain under the direct influence of third parties.



3.2. Low liquidity



Despite the high capitalization of Crypto Currency, before the traders can make a significant number of transactions on Crypto Currency markets, the liquidity problem must be solved.

Liquidity is defined here as the degree to which the market allows the purchase and sale of assets at stable prices. Lower liquidity leads to higher volatility (especially if large bids are placed), and this causes a more radical price change; At the same time, higher liquidity creates a less volatile market, and quotes do not change so significantly.

Today, money is the most liquid asset. If the transaction amounts to \$1 million, then the market can easily absorb it without a significant change in the value of the dollar. Transaction costs, as well as the value of the Currency at the time of the transaction, are also known in advance.

But the same transaction in bitcoins or any other Crypto Currency has a significantly greater impact on the value of the Crypto Currency. The absence of market liquidity is the main reason. The stock of Crypto Currency on a particular trading platform may decrease, so the buyer will have to complete the transaction with 1-10% above the original price. To make the same transaction for \$1 million, you have to spend \$10,000 or even \$100,000 more than the original price.

Liquidity is not the only problem in the Crypto Currency industry, but it is a critical component for the development of the market. This provision of liquidity in the blockchain ecosystem of the detachment, and especially among the decentralized exchanges, will become a key factor in the formation of the "image" of the Crypto Currency as being a worthy way of safe Currency trading.

4. PRODUCT

Redan (ABON) aims to combine the performance of centralized exchanges with the trust and security properties of decentralized exchanges. The system consists of three main components: an off-chain trade matching engine, a smart contract where trades are executed, and a payment service where global assets such as ETH and GAS can be converted to tokens that can be transferred directly by smart contracts, making them compatible with the exchange. In the following sections, we describe each component in more depth.



4.1. Off-chain Matching Engine

An off-chain matching engine allows ABON to benefit from the performance characteristics of centralized exchanges, while maintaining a decentralized user account model based on the blockchain. Orders are signed and sent from user addresses to the matching engine, where they are quickly and deterministic-ally processed using high-performance hardware. Matched orders are then signed off-chain and committed back to user accounts on the blockchain.

4.2. Trusted Off-chain Matching

While an off-chain matching engine brings enormous performance benefits, it also opens the door to potential trust issues between users and the exchange. How do users know that the engine is matching orders fairly, for example, and not manipulating the order books to its own benefit? To address this problem, we propose the idea of provable fair off-chain matching . Under this scheme, the off-chain matching engine follows a publicly specified deterministic algorithm. By combining this knowledge with a public ledger of the order in which trades have been sent to the exchange and fulfilled on the blockchain, any user can verify that the exchange is operating fairly. To make this trust in ABON even more explicit, in the future we plan to build a smart contract where users can submit evidence of unfair exchange behavior in return for a large reward.

Concretely, matching on ABON occurs deterministic-ally based on price and time, commonly known as FIFO. Lower priced orders will be matched first, with preference given to orders placed earlier in time at a given price level. Any modifications to an order will reset its placement time.

4.3. Centralized User Accounts

The security problems of centralized exchanges are not simply a technical challenge to be overcome, but also a social consequence of the common user desire to hold assets in exchange accounts. This desire is largely due to the familiarity of the bank like user experience provided by these centralized platforms when managing funds. ABON aims to bring a similar user experience to decentralized exchange by storing a user's encrypted private key client-side in a user's browser. This preserves the security guarantees of a decentralized account model while allowing users to login into ABON through a traditional web form that asks for a username and password.

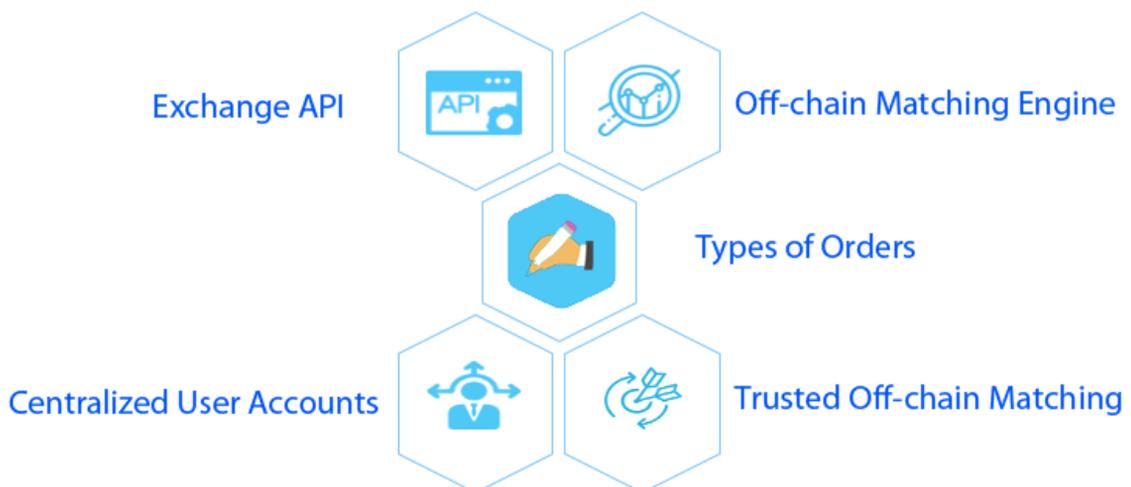
4.4. Types of Orders

Limit : Exchange tokens above or below a given price ratio

Market : Exchange one token for another at the current market price Margin

4.5. Exchange API

ABON exposes a public JSON API that third-party applications can use to trade tokens. This API allows users to place, modify, and cancel orders on the matching engine. Because these transactions take place off-chain, the NEX API can handle tens of thousands of requests per second, in-line with popular centralized exchanges



5. TECHNICAL MODEL

5.1. Summary of Architecture

The infrastructure required for the exchange to function are Exchange peers with reputed Multi signature signers also needing to run clients of foreign blockchains for which they sign. There are no privileged nodes, although certain Block Share (BKS) addresses will be assigned a reputation score by minters, and those with the best reputation will be chosen as deposit address signers. Deposited funds will be protected by a network configurable number of reputed Multi signatures.

Each of these will be accompanied by a transaction fee except the fill message

1. Reputed signer deposit public key list
2. Non-reputed signer deposit address request
3. Non-reputed signer withdrawal address request
4. Order
5. Order validation
6. Fill
7. Fill validation
8. Fund transfer
9. Cancel order
10. Withdraw from deposit address
11. Pairing of addresses



5.2 Order Validations

- Order validations should contain the following data:
- signature using reputed address
- transaction fee
- order ID being validated
- whether verified funds are the denominator or numerator asset of the trade

When an order is received, sufficient funds must be verified. Nodes that are signers of the appropriate deposit address (for buy orders it will be the denominator deposit address, for sell orders it will be the numerator asset) will broadcast a signed message confirming or denying sufficient funds for the order. This message will contain the standard transaction fee and be placed on the blockchain.

They must check the deposit address for sufficient funds on the appropriate blockchain using the RPC for its client, but they must also check the orders already in their memory pool and on the B&C Exchange blockchain and subtract the amount of those orders from available funds.

Submitting multiple orders based on the same deposit is similar to double spends, and the same established techniques must be used to defend against it. Verification must be received from enough signers to accomplish the appropriate transfers from deposit addresses plus two signers to be valid 6&7 that 2 pie chart round image





6. Distribution Of Tokens



Tokens Presale.....	10%
Bonus Fund.....	15%
Partners And Advisors.....	30%
Bounties.....	05%
Core Phase Of Tokens Sale.....	40%



7. Use Of Proceeds



IT Infrastructure.....	40%
Security & Liquidity.....	10%
Legal & Financial Overhead.....	10%
Branding and Marketing.....	20%
Bounty & Overhead.....	10%
10% Management.....	10%

8. Marketing strategy

Our goal is to become the next-generation Crypto Currency exchange, fully utilizing the Blockchain technology, delivering propositions for new users of unparalleled value, and offering strong returns for investors. Ultimately, we wish to drive the creation of a new financial ecosystem grounded in the interactions between assets and Blockchain technology.

Our mission is to foster and enhance the adoption of Crypto Currency as a medium of exchange for global stock trading. We will achieve this by increasing awareness and educating the general public on the safety and advantages of utilizing digital currencies and Blockchain technology.

We at Redan Coin believe that the time has come for businesses around the world to adopt Initial Coin Offering (ICO) practices and gain easy access to stock markets. Due to all of the regulations and boundaries currently enveloping the financial industry, it has become increasingly more difficult for fresh start-ups and even existing companies to enter financial markets. We believe “Wall Street” does not have the necessary expertise on the subject matter and cannot provide such individuals and organizations with the necessary guidance to enter modernized financial markets. Redan Coin has the required tools and expertise – in the form of easy access to rapid funding, professionally tailored teams, and impeccable support services – to provide companies and start-ups with the opportunity to experience positive Business growth and development.

Our aim is to minimize the hassle and unnecessary limitations of bureaucracy and build an easy-to-use, foolproof platform for the masses. We want to provide a solution for businesses to easily access corporate financing solutions, and for the public to obtain in start-ups and profit-based companies around the world without unnecessary headaches. The platform we developed is a fully functional alternative to the Crypto Currency and stock market exchange, which is currently being dominated by Redan and Wall Street.



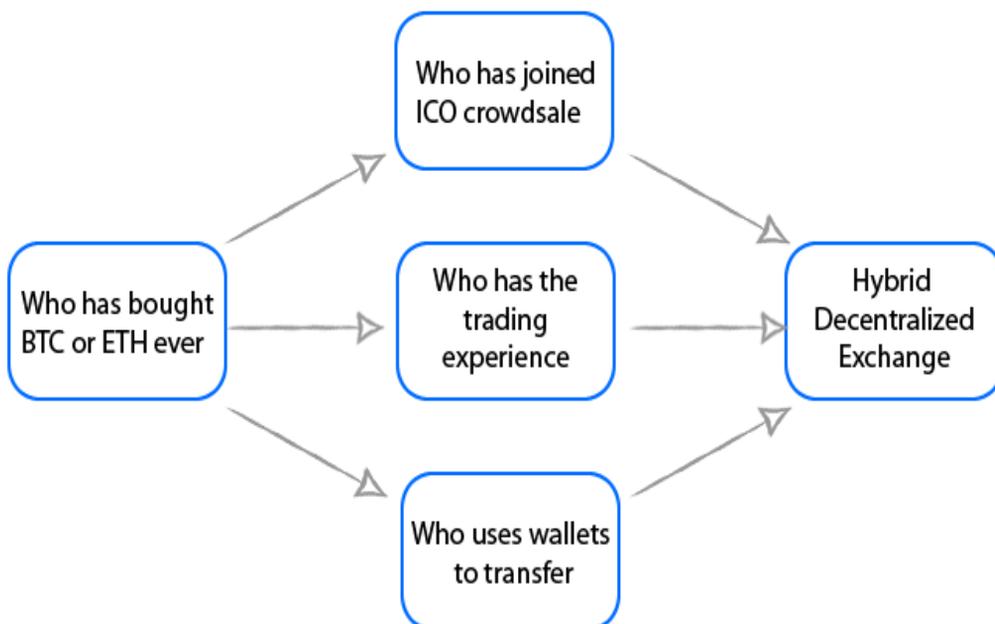
Long-term goals

- ✓ Acquiring at least a 10% market share in the Crypto Currency exchange sector;growing into a fully-fledged platform for trading
- ✓ Invest heavily in production and service development to ensure that Redan Exchange can provide the best technological platform solutions in today's highly competitive industry
- ✓ Expand Business operations globally, ensuring the presence and strong brand awareness in key regions of the world.

Marketing plan

Target Market

People between the ages of 25 and 35 who are interested in digital Currency or Redan investment opportunities. Initial focus on select national markets.



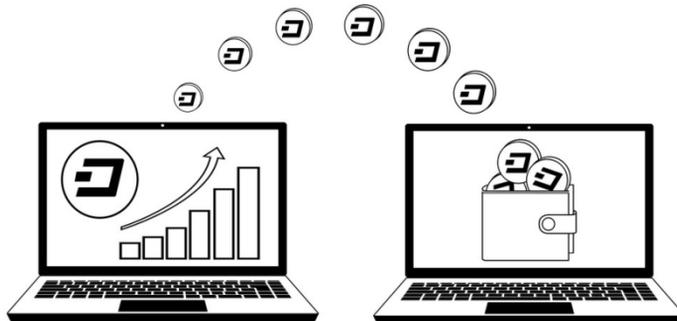
Target Audience:

Market segmentation and the user experience journey

10. Redan Coin

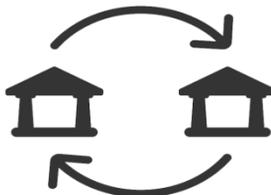
10 Features Any Open Source Bitcoin Exchange php Script Must Have

1. Hot and Cold Wallet



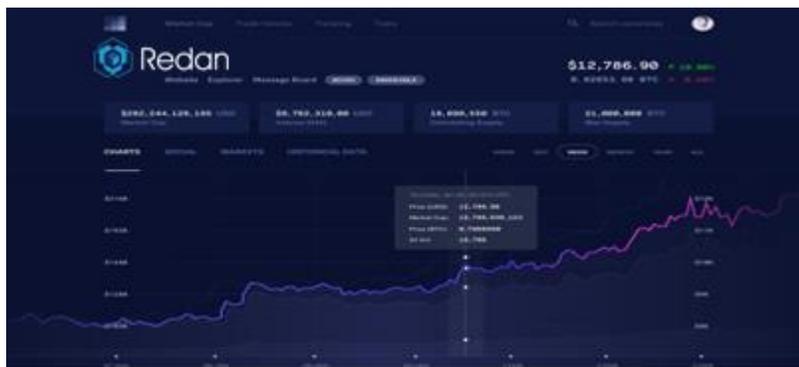
To store Bitcoin in a safe and secure manner is more important than ever before. Multiple ways are available to users for achieving this goal. For those Crypto Currency enthusiasts who prefer to take full control over their secure Bitcoin storage, using a hot Wallet and cold Wallet is well worth looking into. A hot Wallet is a Wallet which is kept online and connected to the internet. They are designed for day to day transactions. There are 3 types of hot Wallet: Mobile, Desktop and Cloud. A cold Wallet is kept offline, often stored on physical paper, USB or hardware. Cold Wallets are suited for long term storage of Crypto Currency- ideal for an IRA investment.

2. P2P Exchange Option



It is a peer to peer network with disruptive technology. It has the power to challenge the status quo and eliminate the middleman in Business areas. A P2P platform brings together people who want to exchange the currencies. By using this, users can obtain better exchange rates than they can get from the traditional Currency exchange mechanism. This technology is basically for secured Bitcoin storing and transactions. It is one of the most essential features any Open Source Bitcoin Exchange php Script should have.

3. Admin Panel



A website is all about the content, growth, engagements, duplicate accounts etc. You surely will need an admin panel where you will be able to quickly review and interact and to get the things done consistently and accurately. It should have all the basic features to let you manage your sites. A user friendly, flexible, proficient and secured admin panel is needed in any Open Source Bitcoin Exchange php Script.

4. Buy/Sell Feature



Buy/sell feature is the most important feature of any Bitcoin exchange. It is the feature on which the whole exchange works. You need this feature on this platform to buy or sell any Crypto Currency.

It is the module where you can enter any amount or the amount which is already there in your Wallet. After entering, you can carry forward the transaction and can sale or purchase Bitcoins or any other alt coins as per your wish.

5.Security



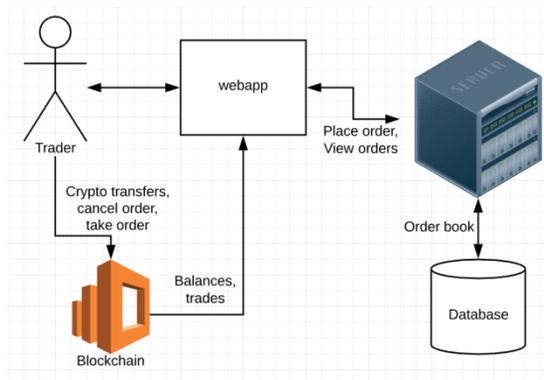
You need to build a complex architecture that provides secure transactions and manages deposits and withdrawal properly. Security is a very major issue and some things need to be considered like internal security procedure, network & hardware security, KYC (Know Your Customer) and AML (Anti-Money Laundering), 2 Factor Authentication for users. The security needs to update regularly without fail. Check if your Open Source Bitcoin Exchange php Script has atleast the basic security features built-in.

6.Robust API



An API is the core Business asset that differentiates one mobile app or the whole Business to another. It is used by various programs to let them communicate with other software. A robust API implies to an enhanced functionality of the application. It needs to be treated independently to be integrated to provide and consume information from unknown customers. A given API should have the standards as per the client requirement. It would be better if you create one secure and robust API and receive the current market rate for every available Coin on Currency exchange.

7. Order Book



Building proper trading engine i.e. order book is must needed feature to open Bitcoin exchange. It has a record of all the transactions that has taken place. It contains list of orders of buyers and sellers for financial instrument. The order book lists the number of shares being bid or offered at each price point or market depth. A good Open Source Bitcoin Exchange php Script has a good order book.

8. Money Deposit / Withdrawal Module



This module is needed as to buy bitcoins or other alt coins in any exchange starts from depositing funds in the users accounts. This is done to avoid any mis-handling of the currencies from the exchange by the users. To have a safe and secure Crypto Currency exchange script, it is needed to have a streamlined process and the perfect in-built funds deposit module. You also need to withdraw everyday. This needs to be handled automatically and in a smooth manner for your users to stay and do more Business in your Market Place. This the reason, you have to make most consistent module for this.

9. Provision to add more Alt Coins



There should be provision to add more alt coins. In this way, more people are able to invest money and investments yield higher prices. User needs to add more alt coins if he wants to carry out the transaction. Apart from bitcoins, there are many other altcoins which are being used frequently and there should be an option to add those. Any Open Source Bitcoin Exchange php Script that has a good Api layer can fit in alt-coins easily.

10. Transaction History Module

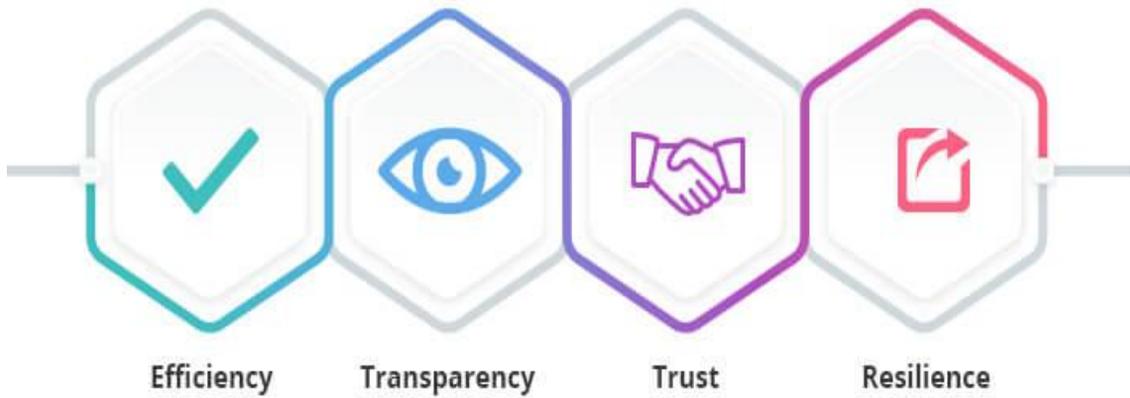


It becomes difficult to keep a track of the changes made in tally data. Transaction module is needed for the same. It helps in keeping the record of the transactions that's has been done by the user. It keeps the details of payments like selling, buying, withdrawing or depositing alt coins in the account. The powerful exchange script shows all the transactions for each user automatically whenever required.



These 10 features are the must to Open Source Crypto Currency Exchange php Script. The above features will definitely help you in building a user friendly Bitcoin Exchange like Coin base.

ADVANTAGES OF BLOCKCHAIN





Redan Coin



11. Redan Coin Advantages

❖ Operation Strategies

The most enduring and fundamental competitiveness of Redan lies in its powerful R&D team, which ensures a world-class stability and service quality. In the meantime, Redan capable operation team shall create a bright and prosperous future through long-term and large-scale online/offline promotion & operation. Majority of the exchange commission will be rewarded to active users who exchange, invest and promote Redan . Incentive policies can sustain active users' enthusiasm and make the Business even more vigorous. On the other hand, the invitation bonus plan between users will tremendously boost Redan subscribers and trades. Shortly after, we will accomplish the target of becoming one of the top 10 worldwide hottest exchange platform.

❖ Financing-level Stability

Learned from the design solution of the state of the art underlying financial system, Redan core exchanging system adopted an advanced multi-layer and multi-cluster architecture. The bank-level disaster-proof deployment with two locations and three centers which can handle multiple tasks in several locations simultaneously has been applied, from the mass flow inlet of domain name resolution to the underlying core exchanging system and accounting system, thus ensuring the system stability in situations like hardware failure, even natural disasters.

❖ High-performance Engine

The trading system has adopted the hardware-accelerated and highly-efficient memory matching technology whose order-making peak value is 2 million+/second, order-processing peak value 1 million+/second. These statistics are hundred times, even thousands of times of the normal industry standard. Therefore it can guarantee no delay or lag throughout the whole core order process when the market booms.

Risks to Redan Coin

Running the Coin itself presents a unique set of risks due to the nature of Crypto Currency ledgers being permanent, and the large amount of money involved. There are constant attacks from all sides including hacking attempts and DDoS attacks, in addition to basic scaling issues and government scrutiny and regulation (discussed above).

Due to the large value stored by Crypto Currency exchanges, they have become prime targets for hackers over the past few years. Hacks have been responsible for losses of funds from some of the biggest players in the industry, which have caused some huge setbacks to adoption and trust. By adopting ISO 27001/27002 Information Security Standards, as discussed in the security section, Redan has done its absolute best to prevent loss of funds due to malicious hackers. A strict cold storage policy, and constant balance integrity checking and fail safe mean users funds are safe on the exchange.

Scaling and DDoS attacks are both huge risks that affect any exchange. Bad actors can launch DDoS attacks against central points of failure in Crypto Currency infrastructure in an attempt to make financial gains. Crypto Currency exchanges are easy targets for this type of attack. A large influx of users can also cause heavy load on the exchange itself. If the system infrastructure is not well engineered, this can cause enormous issues that many exchanges are currently facing with constant downtime and slow execution. Redan Exchange has been engineered from the ground up to be extremely saleable and resistant to DDoS attacks.

15. To Conclude: Why Redan Over Other Coin

Redan Coin is built on a state-of-the-art Modern Technology stack using best practices for high performance web applications by experienced developers from the financial sector. The team has integrated a few key leading-edge tools that you won't find on many other exchanges. Basic mode, expert mode, a masterfully inventive market research page, and social trading are just a few of the features that will help traders of all experience levels.

On top of all this, the Redan team has been deeply immersed in the Crypto Currency community for years, and understands that it is an ever growing ecosystem that is meant to reward you, the user.





Redan

PEER TO PEER CRYPTO EXCHANGE



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