BEETOK

Cryptocurrency Exchange

beetok.io

Contents

Introduction

The world of cryptocurrency and blockchain influences the entire globe, creating a reliable non-cash economy. These technologies change the intellectual process of startups, entrepreneurs, investors, and companies, allowing many of them to move beyond fiat to digital currencies.

The cryptocurrency market has been through a lot, the total capitalization reached up to 800 billion dollars, and the number of cryptocurrencies themselves and various tokens exceeds one and a half thousand. However, in order to buy a cryptocurrency, or sell it, it is necessary to use cryptocurrency exchanges. The use of such exchanges is safer than other exchange methods, and the number of cryptocurrencies and various tokens on exchanges can reach several hundreds. By investing in your own cryptocurrency exchange, your company can become a part of this digital revolution.

Beetok Exchange is a centralized exchange for cryptocurrency. The base platform provides people with all the necessary tools for professional trade and high-speed transactions. You can add any functionality that is needed right up for your exchange. Once you have added it, you will receive a unique and reliable solution in the shortest possible time.

What is a cryptocurrency exchange

Cryptocurrency exchange is an online platform that acts as an intermediary between buyers and sellers of cryptocurrency. Anyone who wants to buy, sell, or trade cryptocurrency such as Bitcoin, Ethereum, Litecoin, and others, can do this through the cryptocurrency exchange.

The exchange accepts cash and cryptocurrency from our users, after   that these users are able to trade with each other with the funds that they placed into their balance account.

In other words, we allow our users to exchange money for cryptocurrency or vice versa.

The platform itself does not buy anything and does not sell anything, only your users do it.

Although some crypto-exchanges support only a limited number of digital and traditional currencies, our customers can choose those ones that are worth implementing into the platform. Cryptocurrencies such as BTC, ETH, LTC, and ZEC are set by default.

Cryptocurrency exchange development

Cryptocurrency exchange development includes several stages. We investigate thoroughly client's detailed and business in order to create the most effective customized solution.

Stages of our work include:

1. Discussion with the client his needs and requirements in accordance with the desired result.

2. Analysis and elaboration of the uniqueness of the cryptocurrency exchange.

3. Adding the desired functionality and design to your exchange.

4. Presentation of the final product and approval by the client.

5. Implementation of additional functionality.

6. Transfer of the ready-made solution to the client.

The final product of the cryptocurrency exchange will differ by not only user-friendly interface and advanced functionality but also it will able to work with dozens of types of coins and tokens from bitcoins and litecoins to peercoins and freicoins. Large selection of coins greatly expands the target audience of the exchange, allowing trading for both beginners and advanced traders.

We can proudly say that we have created a truly high-quality product in the field of cryptocurrency systems. We understand how important it is to grow with the advent of technology and software development in this particular field. Our team is always ready to cooperate with our clients and help them achieve their business goals.

Business Goals

Development of a cryptocurrency exchange is a serious business. Developers must take into account complex logic and data processing for complex orders, partial fillings, cancellation, rejections, trailing stops, etc. At the same time, they must address issues of risk management, security, data processing, multithreading, and scalability - all must be in accordance with strict standards of state regulation.

Fortunately, in Beetok, we live and breathe newest blockchain technologies. We are experienced developers, and we speak your language. Our programmers developed Beetok Exchange from the ground zero, first creating several basic codes before proceeding to the final optimal design. As a result, we came to the simplest, most powerful, and cost-effective mechanism for creating an exchange, which you can find on the market.

Opporunities for monetization

You, as the owner of your own exchange, have the opportunity to profit from the exchange in the following ways:

1. To receive interest for transactions

Trade commission is the simplest and most common way to monetize crypto-exchange; it can be fixed, or may depend on the trader's trading turnover.

2. To resale the trading leverage

Resell the trading leverage (conduct margin trading) and profit from the interest collected for the use of leverage.

3. To charge a fee for listing from the owners of coins and tokens

The developer can bring new developed coins and tokens into the exchange for a fixed fee or a percentage of transactions.

You should also take into account the continuous growth of the market share, which will allow you to constantly increase your profit.

Customized solution

All solutions for the development of cryptocurrency exchanges, offered by Beetok, are scalable, reliable, faultless, functional, and easily configurable.

We are ready to help you develop the solution completely in accordance with all your requirements.

The key features of our products are:

1. Access to advanced trading functions

2. Centralized and decentralized deployment

3. Two-way authentication

4. Reports and diagrams showing analytical changes

5. Ongoing customer support

6. Anonymity with the use of data encryption

7. Quick and simple operations

Being a company specializing in all services of developing professional software, applications, and marketing, the Beetok team is your right partner to help you with all your business needs, whether it's creating your own exchange or entering the ICO market.

Structure of the Exchange

Welcome to your personal exchange. Here you provide traders with the opportunity to trade in pairs, which you can choose for your platform.

The main page is the trading page. The list of quoted cryptocurrencies such as bitcoin, ethereum, litecoin, and zcash (BTC, ETH, LTC, ZEC) is displayed in the market panel. A table of quotations with other currencies is opened for each quoted currency. The working area of this page in the base version contains:

- OHLC chart
- Buy order creation window
- Sell order creation window
- Buy or sell stop order creation window
- Order books
- Market depth chart, which is built on the data from the order books for buying and selling
- The history of transactions committed by the user in this mode

Chart of the cryptocurrency exchange

Consideration of the structure of the interface should begin with the analysis of the chart, which is designed for the visual and quick display of the current price of the base cryptocurrency, and shows the ratio of market demand and supply for this coin. Here we use a plug-in, with the help of which the user can objectively assess the situation on the market.

Data on the market price of a currency pair is displayed on the OHLC chart. It consists of time intervals.

Each interval contains information about the price of the currency pair at the beginning of the interval and the price of the currency pair at the end of the interval, data on the direction of the price, and the reached maximums and minimums of the price of the currency pair. Possible formats of time intervals are 5 minutes, 15 minutes, 30 minutes, 2 hours, 4 hours, and 1 day.

The data in the market window is updated in real time. In order to see the market price for a currency pair, the user just needs to press on the currency pair in the list of the market panel, after which:

- The OHLC chart of this currency pair is loaded
- Window with information for a currency pair is updated
- A base currency ticker is placed in the Order Window (Sell, Buy)
- The market price of a currency pair is automatically placed in the Price field
- The Summary of the currency pair is updated

Specificity of order books, orders, and trading history

At the bottom of the interface relative to the chart, there is a section, where you can create an order for the buy or sale of assets and there are order books and a section of trading history below in this section. Order books display or contain orders (buy or sell orders for coins and tokens). They are arranged according to the order of the currency rates: the top of the list is

occupied by orders with the most profitable currency rates.

The list of orders is a special table, which contains groups of orders for each interval of the price, price indicators, the amount of funds targeted at the sale or purchase, as well as summary data on the fact of execution of the order.

Order books give the opportunity for the users to analyze all buy and sell orders and make a decision based on the analysis about when they should buy or sell and in what amount.

To carry out an operation for buying or selling assets within the exchange, it is necessary to conclude a market transaction, that is, to form an order that will ensure the implementation of the transaction. The order, in turn, will be executed after the formation of the necessary price. At the moment when the market reaches the indicated price, the transaction is fully implemented.

Upon the transaction, the user pays a commission, and the amount of this commission is determined by the customer of the exchange platform. The standard commission for most platforms is 0.2%.

Market depth panel

This is the visualization of data from the Order books with buy and sell orders. The green chart displays the data from the buy order book (Buy orders). Red displays the data from the sale order book (Sell orders). The price is displayed in the horizontal direction; the amount of open orders for each is displayed in the vertical direction.

Open orders window

Type	Price (USDT)	Amount (ZEC)	Total (USDT)	Stop/Rate	Date	Action
Buy	612.00000000	0.30000000	183.60000000	-	2018-07-02 12:04:54	Cancel

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Open orders window contains a list of active buy and sell orders and other necessary information:

- Buying and Selling options

- The price of the base currency for which a buy or sell order is opened

- The amount of the base (sold or bought) currency in the order

- The value specified in the Stop field of the buy or sell stop order creation window

- Order opening date

- Cancel order closing button (after pressing this button, the order closes)

User account

After successful registration and activation of the account, the user will have access to his (her) personal account. Each account undergoes verification, which increases the level of trust in the user's account.
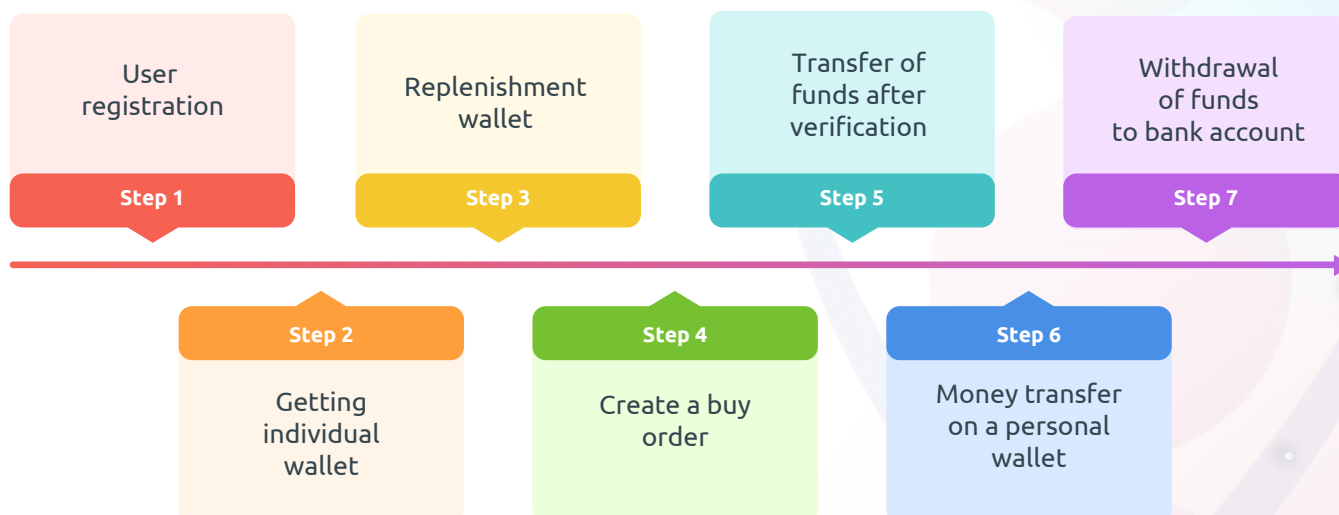

The process of working on a cryptocurrency exchange is absolutely affordable for any level of users:

How does the crypto exchange work

User registration		Replenishment wallet		Transfer of funds after verification		Withdrawal of funds to bank account
Step 1		**Step 3**		**Step 5**		**Step 7**

	Step 2		Step 4		Step 6	
	Getting individual wallet		Create a buy order		Money transfer on a personal wallet	

The withdrawal of the cryptocurrency from the exchange is carried out in the same way as the replenishment of the personal account. On the same page you should choose which cryptocurrency you are going to withdraw. And in the opened window, enter the wallet number where the given cryptocurrency and withdrawal amount will be withdrawn (below the commission fee for the transaction will be automatically generated). Then if necessary click the button enter the code from the authenticator and confirm the withdrawal by clicking on the link that the exchange will send you by mail after the application.

The exchange provides for accounts with different access rights, both for ordinary users and the resource administrator's office with monitoring and control capabilities. The administrator manages all the functionality on the cryptocurrency exchange. Its functions can be customized according to the needs of the business. You can change the list of available cryptocurrencies, add new ones, and monitor the number and activity of the users of the exchange.

Functionality of the Exchange

The platform has the necessary functionality for ordinary users and professional market players. Professional traders will be able to conclude transactions on the exchange of cryptocurrencies, and the developers of the new ICO/ITO will be able to place their tokens.

By launching your own exchange of cryptocurrencies, you create a platform for secure transactions between buyers and sellers, allowing all your users to freely trade bitcoins and altcoins.

Creating orders

To open and close positions, exchange applications (orders) are used. A market order and a stop-limit order are distinguished by the type of execution. An order of each type can be used for a buy or a sell.

Suppose a user created a stop-limit order, the market price of which is 12 coins at the current moment and the trader assumes that it can go up. He (she) submits the following data to the application:

• Stop: 13 coins

• Limit: 14 coins

• Amount (number): 20 conditional coins

The market price rises to 13 after which the system automatically opens a buy order for 20 conditional coins at a price of 14 coins. As a result of the opening of the order, a buy of 17 coins at the price of 14 coins and 6 coins at the price of 15 coins is carried out. The market has grown to 18 coins per coin since the opening of the stop order.

Stop limit order allows you to create a deferred (usual) buy or sell order with the specified conditions of the market price and the buy/sell price, at which the system automatically opens this order at the price specified in it.

Safety

To ensure the safety of traders when working with the platform, the safeguard of funds must be guaranteed. Safety of our platform is ensured by the quality of the code as well as by such solutions as:

Two-factor authorization

Two-factor authorization is implemented in the system, which does not allow attackers to log in knowing only the trader's credentials.

Cold and hot wallets

All the funds of the exchange are stored in a "cold" wallet and only the system itself has access to it. A hot wallet is used to carry out transactions from the outside (acceptance and withdrawal of funds), and the trade processing takes place inside the system itself (ie on the backend). Thus, the degree of protection of the users' funds on the platform is increased.

Withdrawal protection

Our platform is equipped with a reliable security system that makes the withdrawal process completely protected from unauthorized access.

The database of the trading platform contains confidential information about the traders' accounts. In addition, the trade processing and the storage of users' personal data are performed on the server side of the exchange. Among users' personal data, the exchange keeps names, contacts, identity documents, information about all transactions of all traders and other financial data.

n this regard, in addition to the reliability of the software solution, it is necessary to ensure the

reliability of the technical part of the project. The data center of the project should correspond

to the level of Tier 3 or Tier 4.

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