

Case Study | Hedgex

Online marketplace that facilitates the buying, selling, and trading of cryptocurrencies. It allows users to exchange one cryptocurrency for another or trade cryptocurrencies for fiat currencies (such as US dollars, euros, etc.).



About the application

Hedgex serve as intermediary, matching buyers and sellers and providing a platform for conducting transactions. It provides order books that display the current buy and sell orders along with their corresponding prices. Users can place market orders (buy or sell at the current market price) or limit orders (buy or sell at a specific price).

Summary

Users:

Client, Admin

Tech Stack:

Angular, java, MongoDB, MySQL , AWS cloud, S3

Team Size (6 Oodlites)

1 Project Manager, 1 Lead Backend Developer, 1 jr. backend developer, 1 Frontend Developer, 1 QA Engineer, 1 Business Analyst

Scope of Work

Clients : The app users registered as a client refers to an individual or entity that interacts with the platform to engage in buying, selling, or trading cryptocurrencies. The client is essentially a user of the exchange and plays a crucial role in the platform's operation. Here are some key aspects of a client's role:

1. Account creation: A client typically starts by creating an account on the crypto exchange platform. This involves providing personal information, completing any required verification procedures (KYC), and agreeing to the platform's terms and conditions.
2. Fund deposit: After the account creation process, the client deposits funds into their account through transferring cryptocurrencies This can be done through various methods, such as bank transfers, credit/debit cards, or transferring cryptocurrencies from external wallets into hedgex's inbuilt wallets.

3. **Trading activities:** The primary role of a client is to engage in trading activities on the exchange platform. Clients can place different types of orders, such as market orders or limit orders, to buy or sell cryptocurrencies based on their desired prices.
4. **Market analysis:** Clients perform market analysis to make informed trading decisions. They can analyze price charts, order books, trade history, and other available market data to evaluate market trends and potential investment opportunities.
5. **Security measures:** Clients are responsible for implementing security measures on their end to protect their account and funds. This includes setting up strong passwords, enabling two-factor authentication (2FA), and following best practices to secure their personal devices and wallets.
6. **Withdrawals:** When a client wishes to convert their cryptocurrency holdings back into fiat currency or transfer their funds to an external wallet, they can initiate a withdrawal request on the exchange platform. The platform will process the request and transfer the funds to the designated account or wallet.

Administrator: The role of an admin is to oversee and manage the overall operation, security, and regulatory compliance of the platform. Admins typically have elevated privileges and responsibilities compared to regular clients. Here are some key aspects of an admin's role:

1. **Platform management:** Admins are responsible for managing the technical infrastructure and overall functionality of the exchange platform. They ensure that the platform operates smoothly, performs necessary upgrades and maintenance, and addresses any technical issues that may arise.
2. **User management:** Admins handle user accounts on the exchange platform. They have the authority to create, modify, or delete user accounts, as well as manage user permissions and access levels. They also oversee the account verification process (KYC/AML) and handle any user-related disputes or issues.
3. **Security management:** Admins play a crucial role in maintaining the security of the exchange platform. They implement and enforce security measures to protect user data and funds, such as robust authentication systems, encryption protocols, and regular security audits. They monitor the platform for any potential security threats or suspicious activities.
4. **Regulatory compliance:** Admins ensure that the exchange platform operates in compliance with relevant laws and regulations. They stay updated on the evolving

regulatory landscape and implement necessary procedures to meet compliance requirements, such as KYC/AML procedures and reporting obligations.

5. Market monitoring: Admins monitor the trading activities on the platform to ensure fair and orderly markets. They implement surveillance systems to detect market manipulation, fraudulent activities, or any suspicious trading patterns. They take appropriate actions to mitigate risks and maintain the integrity of the platform.
6. Customer support: Admins respond to user inquiries, assist with technical issues, and provide guidance on platform usage. Admins act as a point of contact between the users and the platform, helping to address any concerns or questions.

Let's discuss about top functionalities offered

Backend Development

Client required dedicated backend interfaces for clients and admin.

Frontend Development

Client required dedicated frontend interfaces for clients and admin.

KYC verification

KYC verification is the process of verifying the identity and authenticity of users by providing their supporting documentation.

The screenshot shows a digital form for identity verification. At the top, a progress bar has two steps: 'Identity document' (active) and 'Selfie'. The form is titled 'IDENTITY DOCUMENT' and contains two main sections. The first section, 'Select issuing country', features a dropdown menu with 'United States of America' selected. The second section, 'Choose your document type', has four radio button options: 'Driver's license', 'ID card', 'Residence permit', and 'Passport'. A red 'NEXT' button with a right arrow is at the bottom. The background is dark with a red vertical bar on the left and a golden gear-like graphic on the right.

Identity document Selfie

IDENTITY DOCUMENT

Select issuing country

United States of America

Choose your document type

☐ Driver's license ☐ ID card ☐ Residence permit
☐ Passport

NEXT ➔

Staking

Staking is a process in which cryptocurrency holders lock up their funds on a contract to support the operations of a blockchain network and, in return, earn rewards fixed by the admin. Staking is offered in 2 types- fixed, monthly. Fixed staking rewards are offered to the client after the complete locking tenure is finished, Monthly staking rewards are offered to the client every month, generally fixed staking rewards are higher than monthly rewards.

Total Staking Balance: 100.00000000
Available Hedging Main Balance: 206.72230500
Bonus Earned: 36.50000000
Total Claimed Profit: 0.00000000

Total Active Staking Contract

Total Active Staking Fund 100

Staking History

Staking Profit Histo

Staking Amount

100

Staking Type

Fixed

Staking Period (Month)

24

Auto Renewed

Yes

Submit

med

Currency Name

Total Profit

Hedgex

7

Hedgex

10

Hedgex

10

Hedgex

4.5

Hedgex

5

Hedging

Hedging is a process in which a client creates a contract and locks their funds onto it, clients gain the rewards if the market is going up, but in case of market failure, the client doesn't bear the loss. Hedging is a profit making feature for clients with minimal risks. Hedging rewards percentage is also dictated by the admin only.

Self Active Hedging Fund: 0.00000000
Profit Earned: 16.14391450
Total Claimed Profit: 16.14391450

Create Contract

Eligibility Amount

900.00000000

Available Hedging Balance

\$ 206.722305

Current Btc Market Price:

25972.6

Current Eth Market Price:

1745.6

Transfer Fee:

0.25%

Hedging Amount

100

Select Currency

BTC

Submit

Profit (0.00000000)

Create Contract

gling Currency

Market Price At Creation

1

1872.51999999

2

26102.9

Affiliate Brokerage

Affiliate brokerage is a multi marketing program in which a client can refer the users onto the hedgex platform and gain a percentage of hedging profits of the referred users upto 25 levels.

Brokerage Commission History							
Total Team							
Business Report							
Hedgexian Credit Score							
Today's Reports							
Claim All Profit (67.74607046)							
Order Descending	Levels All	From 5/14/2023		To 6/14/2023			
Date	Brokerage From	Level	User Actual Level	Hedging Amount	Loyalty Level	Brokerage Percent	B
Jun 13,2023, 07:01:40 PM	shweta.singh@oodles.io	2	2	200	STANDARD	5	0
Jun 13,2023, 07:01:40 PM	shipra	1	2	100	PREMIUM_PLUS	1	0
Jun 13,2023, 07:01:40 PM	Vishu	1	1	100	BASIC	1	0
Jun 13,2023, 07:01:40 PM	Vishu	1	1	50	BASIC	1	0

Deposit

Deposit is the process of adding funds or cryptocurrencies to a user's account on the platform. It allows users to transfer their assets from external wallets or sources into their exchange account, enabling them to trade or engage in other activities within the platform

Balance
Deposit
Withdrawal
Transfer

TOTAL BALANCE: 300.00

Select Coin or Token
BITCOIN

All your transaction will be confirmed with in 24 hours

- IMPORTANT** : Send only Selected coin to this deposit address. Sending any other currency to this address may result in the loss of your deposit.
- Notice: Coins will be deposited immediately after 06 network confirmation.
- After making a deposit, you can track it's progress on the history page.
- The minimum deposit amount is 0.0001 BTC. Any deposit less than 0.0001 BTC will not be credited to your account.
- After finishing your deposit transaction(s), you may enter the 'deposit history' page to track the progress of your deposit(s).

Address: **BITCOIN**
2NAdx7QYRY8fKZQ8khSXEfedXtA9PBSh8yn

Send only **BITCOIN** to this deposit address.
Sending coin or token other than **BITCOIN** to this address may result in the loss of your deposit.

Deposit History
Profit Claim History

Withdraw

Withdraw is the process of transferring funds or cryptocurrencies from a user's account on the platform to an external wallet or destination. It allows users to move their assets out of the exchange and have control over them outside of the platform.

Balance
Deposit
Withdrawal
Transfer

TOTAL BALANCE: 300.00

Select Coin or Token
BITCOIN

All your transaction will be confirmed with in 24 hours

- Minimum withdrawal amount: 0.0001 **BTC**
- To ensure the safety of your funds, your withdrawal request will be manually reviewed if your security strategy or password is changed. Please wait for phone calls or emails from our staff.
- Please make sure that your computer and browser are secure and your information is protected from being tampered or leaked.
- The digital assets you proposed are one-coin multi-chain assets. Whichever chain you choose to originate from, it means that your total digital assets displayed on this coin withdrawal page will be reduced by corresponding withdrawn amount.
- Once your crypto withdraw operation is completed, the corresponding asset ownership will be changed to the account owner of the target address.

Recipient Wallet Address
2NAdx7QYRY8fKZQ8khSXEfedXtA9PBSh8yn

Amount
1

Available balance: 300.00

Withdraw

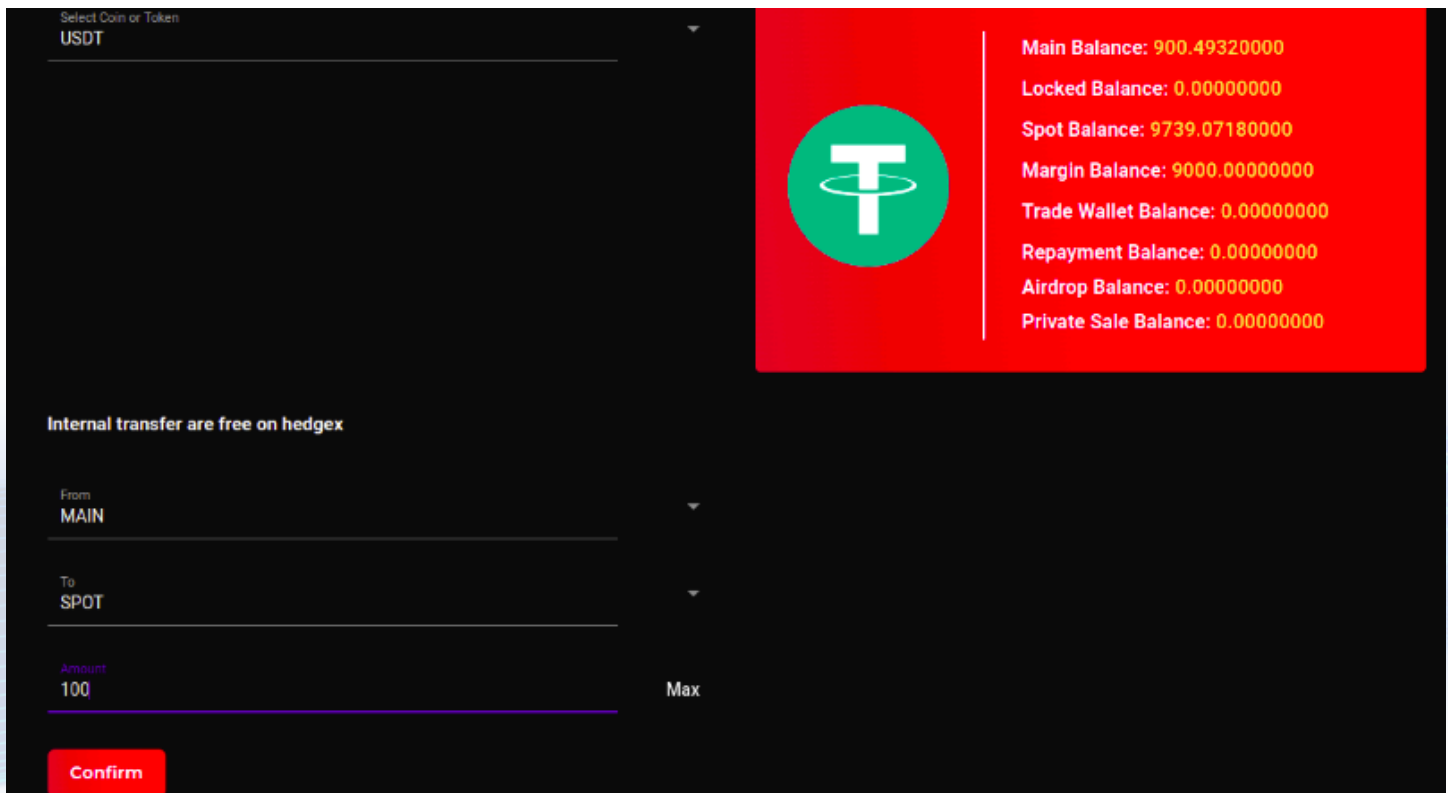
Withdraw fee **Out App 0.00001** and **In App 0** will be applicable for out-app transaction.

i Please make sure to double check the address you are sending the funds to. coin Funds sent to the address other than above, WILL BE LOST. We will not be able to recover those funds.

odlesBlockchain

Transfer

Transfer refers to the ability to move funds between different wallets within the same exchange platform. Initial transfers are free on hedgex.



The screenshot displays the Hedgex transfer interface. On the right, a red panel shows the user's balance for USDT across various wallets. On the left, a dark grey form allows for an internal transfer from the MAIN wallet to the SPOT wallet, with an amount of 100 USDT entered. A 'Confirm' button is at the bottom left.

Select Coin or Token
USDT

T

- Main Balance: 900.49320000
- Locked Balance: 0.00000000
- Spot Balance: 9739.07180000
- Margin Balance: 9000.00000000
- Trade Wallet Balance: 0.00000000
- Repayment Balance: 0.00000000
- Airdrop Balance: 0.00000000
- Private Sale Balance: 0.00000000

Internal transfer are free on hedgex

From
MAIN

To
SPOT

Amount
100 Max

Confirm

Balance

Balance is a functionality where users can view all the funds into their wallet.

Balance

Deposit

Withdrawal

Transfer

Coin, token name

Hide Zero Balance

Currency Name	Main Balance	Future Trade Balance	Locked Balance	Spot Balance	Margin Balance	Repayment Balance	Air Drop Bala
<div><div></div><div>BITCOIN</div></div> <div>300.00000000</div> <div>0.00000000</div> <div>1.438</div> <div>2.4450962</div> <div>0.00</div> <div>0.00</div> <div>0.00000000</div>							
<div><div></div><div>ETHEREUM</div></div> <div>300.00000000</div> <div>0.00000000</div> <div>0.10690434</div> <div>14.10690434</div> <div>0.00</div> <div>0.00</div> <div>0.00000000</div>							
<div><div></div><div>TRON</div></div> <div>300.00000000</div> <div>0.00000000</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00000000</div>							
<div><div></div><div>TEST</div></div> <div>300.00000000</div> <div>0.00000000</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00000000</div>							
<div><div></div><div>BITORIO</div></div> <div>300.00000000</div> <div>0.00000000</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>20.00000000</div>							
<div><div></div><div>HEDGEX</div></div> <div>559.04448500</div> <div>0.00000000</div> <div>0.00</div> <div>168.50</div> <div>0.00</div> <div>0.00</div> <div>0.00000000</div>							
<div><div></div><div>MATIC</div></div> <div>300.00000000</div> <div>0.00000000</div> <div>0.00</div> <div>10.00</div> <div>0.00</div> <div>0.00</div> <div>0.00000000</div>							

Borrow

The borrow functionality refers to the ability for users to borrow funds or cryptocurrencies from the platform usually with the intention of leveraging those assets for trading or investment purposes. It enables users to access additional capital or assets beyond what they currently hold in their own accounts.

Borrow

Portfolio Balance - \$0.00000000 Loyalty Level - BASIC

Portfolio Percentage: 0%

BTC Balance: 0.00000000 BTC

Crypto Wallet Balance: 0.00000000 BTC

Profit Earned: 0.00000000 USD

Transfer Amount

1

Avbl: 0.00000000 BTC

25%

50%

75%

100%

Borrow

Lending

Lending refers to the process of providing funds or cryptocurrencies to the platform in exchange for earning interest on the lent amount. It allows users to act as lenders and earn passive income by lending their assets to the platform.

Lending

Portfolio Balance - \$0.00000000 Loyalty Level - BASIC

Portfolio Percentage: 0%

BTC Balance: 0.00000000 BTC

Custodian Balance: 0.00000000 USDT

Total Profit Amount: 0.00000000 USDT

Currency

Transfer Amount

Avbl: 0.00000000 NAN

25%

50%

75%

100%

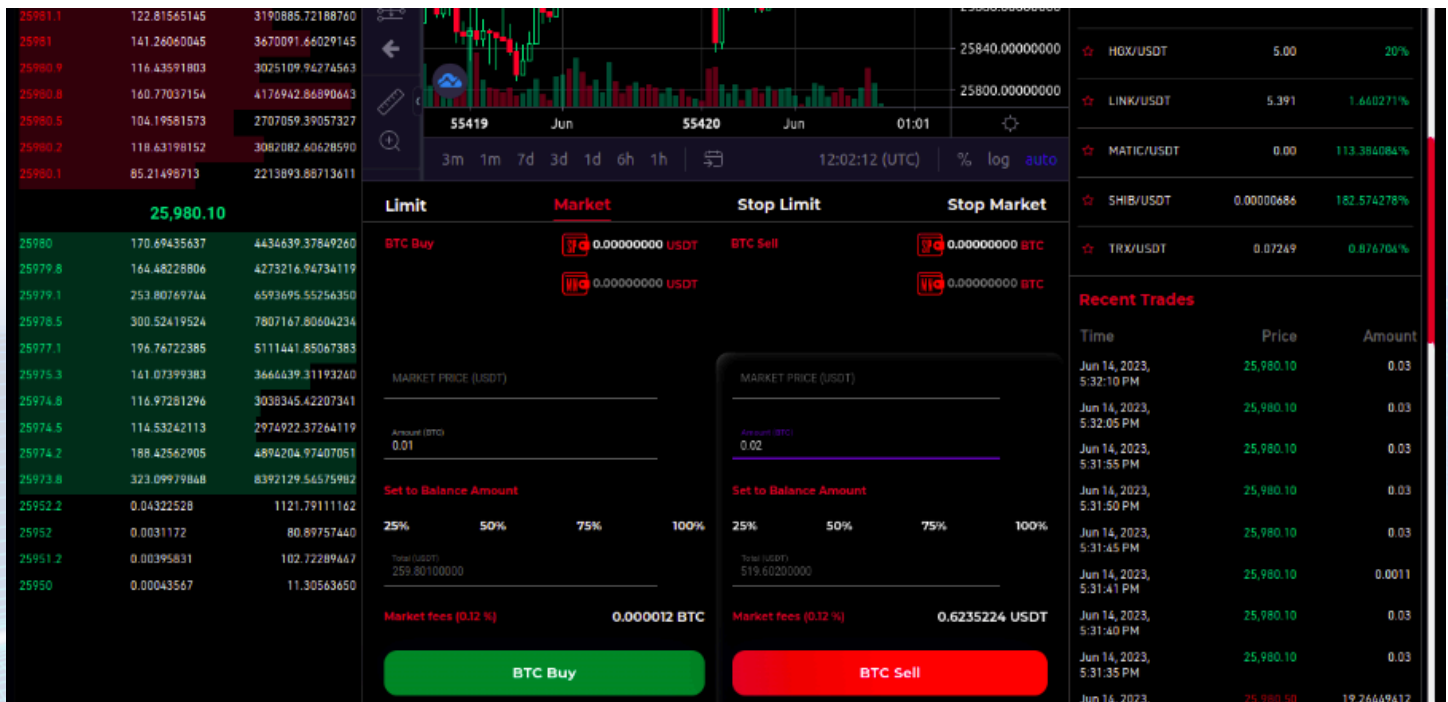
Transfer

Loyalty level

Hedgex offers 4 types of loyalty levels based on the activeness of the user activities onto the platform, loyalty level dictates the reward percentage provided to the users in case of hedging, staking, and affiliate brokerage.

Spot trading refers to the purchase or sale of cryptocurrencies, at the current market price for immediate delivery. In spot trading, the transaction is settled immediately, with the buyer receiving ownership of the asset and the seller receiving the agreed-upon payment.

Other than this, users can also place the limit order to set a specific price at which they are willing to buy or sell the asset.



Swap

A currency swap is a financial agreement between two parties to exchange a specified amount of one currency for another currency, at a predetermined exchange rate.

Swapping

ttt@yopmail.com Profile - Empty Upgrade your profile
Total Balance: 0.00000000 BTC | 0.00000000 USD


Last login : Jun 15, 2023, 1:00:12 PM
Protection Personal Information

Choose Wallet type

Main

Spot

Pay with

 BITCOIN

0

Market Price: \$

Main Balance: 0.00000000