Front End User Documentation

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1 Overview

LiquidX Protocol frontend is mainly designed to facilitate the interaction between users and LiquidX Contracts and is developed based on Vite and React. Currently, it includes two interfaces. The first one is the Stake Page, whose interaction interface mainly corresponds to the LiquidXStakePool contract. The second one is the Manage Page, whose interaction interface mainly corresponds to the ManagerAccount contract. Please note that the frontend functions are still in early development and do not represent the final product quality.

2 Installation

To run the app, you need to make sure you have installed Node.js.

- 1. Open the command prompt (cmd) on your computer.
- 2. Navigate to the LiquidXFrontendV2-master folder where the project is located.
- 3. Type the fllowing commands in order to start the app:

```
npm install -g yarn
yarn
yarn dev
```

That's it! The app should now be running and you can access it in your browser by visiting http://localhost:3000.

```
C:\WINDOWS\system32\cmd. \times + \times - \square \times \times
```

3 Usage

The first interface that you should see when you open the website is this page:

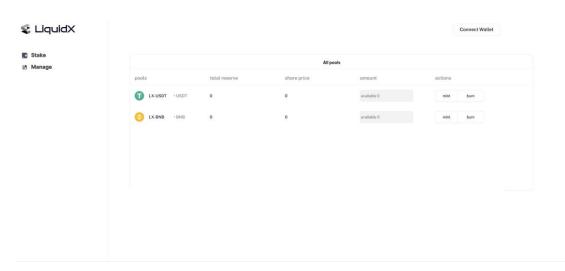


Figure 1 Stake Page

To log in, your wallet should pop up automatically similar to most other Web3 websites. If it doesn't, you can manually connect by clicking the "Connect Wallet" button.

To mint or burn your pool share token. You can type the amount of native token you want to transfer in or transfer out here:



Figure 2 type amount

And click the "mint" or "burn" button.

Next, I will show you how to interact with the Manage page. Click the "Manage" button you will see this:



Figure 3 Create Account Button

Click it and you will set up your personal LiquidX Protocol manager account.

And it should be like this now:

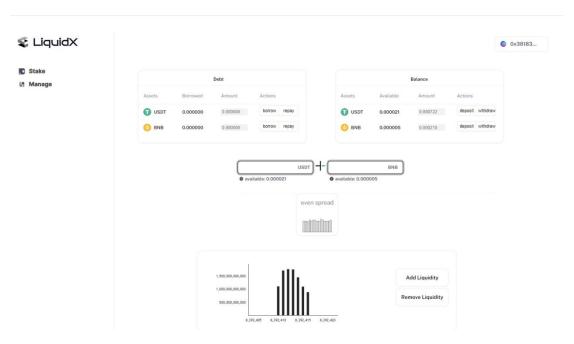


Figure 4 Manage Page

I will introduce the functions of this page section by section to you. The first one is section Debt:

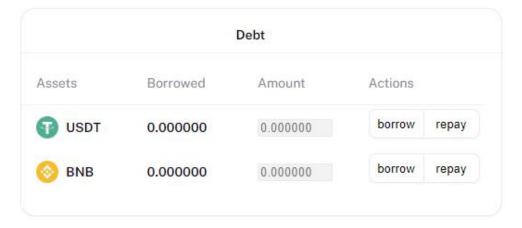


Figure 5 Section Debt

This section allows you to borrow a certain amount of native assets to add liquidity. To do so, simply input the desired amount and click on the "borrow" button. If you wish to repay your debt, click on the "repay" button. The

corresponding functions in the "ManagerAccount.sol" contract are "borrow" and "repay", respectively.

Please note that for a new account, the available amount of assets for borrowing would always be zero. And the corresponding mechanism has already been introduced in lite paper¹.

Now comes to section Balance.

		Balance	
Assets	Available	Amount	Actions
USDT	0.000021	0.000722	deposit withdraw
⊗ BNB	0.000005	0.000210	deposit withdraw

Figure 6 Section Balance

This section allows you to deposit/withdraw a certain amount of tokens. The tokens deposited in the manager account can be used not only to directly add liquidity to the LB pair but also as margin when borrowing funds.

 $^{1}\ https://github.com/hyahhhhjj/LiquidXContracts/blob/master/documentation/LiquidXProtocol_LitePaper.pdf$

In the "Operating with Liquidity" section, my target is to deliver a highly flexible experience to market makers through a customized liquidity provision tool.

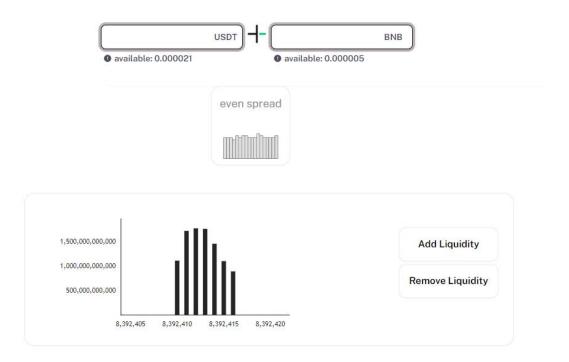


Figure 7 Section operating with liquidity

Please note that this section is still in development. The basic idea of this section is quite similar to one that in TraderJoeV2's website², but with more flexibility and customization providing to market maker. You can input different amounts of tokens into two input boxes, and the system will calculate a uniform distribution of liquidity for you to add. After adding liquidity, the chart will be updated with the added liquidity. You can further customize the liquidity by dragging the chart to remove liquidity. The updated liquidity will

² https://traderjoexyz.com/

be displayed on the chart after each operation. In the future, I plan to add more liquidity distribution options and custom liquidity addition functionality.

To read the liquidity distribution chart, you must understand the working principles of the LB pair, which are described in LBPair.sol3.

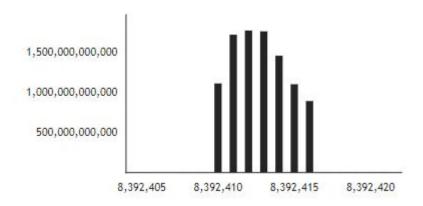


Figure 7 Liquidity Distribution

Generally speaking, x represents the bin ID introduced in Liquidity Book V2 and can be thought of as alternative pricing. Y represents the amount of LB token in a specific bin. Although I understand that this may not be very comprehensible, I aim to release a user-friendly update for the UI soon.

³ https://github.com/traderjoe-xyz/joe-v2/releases/tag/v2.0.0

4 Note

Before you start, you should get some tokens to test with.

The first token is

(TUSDT):0x6a0Df378CbD9cfdb27448ba9Da327cb6EE681Cc1

Feel free to mint this token by calling the 'mint' function directly.

The second token is

(WBNB):0xae13d989daC2f0dEbFf460aC112a837C89BAa7cd

If you send some of testnet BNB to this address, you will automatically receive some of WBNB.