

Bull and Bear Exchange

DMBLOCK Assignment 2

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1 Assignment

Main goal of this assignment was to complete provided implementation of an Uniswap [1] inspired decentralized exchange. We were given solidity and javascript source codes in a Hardhat project, and we had to implement methods in these files to create a functional decentralized exchange for swapping Ether with our custom ERC20 token.

2 Questions

1. Why removing liquidity from exchange doesn't change the rate
2. Explain implemented fee mechanism for incentivizing liquidity providers
3. Explain at least one gas optimisation method you used

Feedback questions

4. How much time did you spend on the assignment
5. What would one useful information before you started to work on this assignment
6. What would one thing you would change

3 Implementation

4 Testing

5 Security analysis

6 Conclusion

References

- [1] "Overview — Uniswap — docs.uniswap.org." <https://docs.uniswap.org/contracts/v3/overview>. [Accessed 27-04-2024].