



# CRYPTO FLEA MARKET

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## **EXECUTIVE SUMMARY**

- To create a decentralized exchange platform to swap Ether with USDC. Customers can set prices (limit order) for ETH and form up a contract and deal with the counterparty customer directly. A wallet address is the only information needed for setting up new customers. The benefits of setting up an exchange like this is to protect customers' privacy, customization of prices for different customers' needs and fast settlements.

# FX exchange vs Crypto Currencies exchange

A pink piggy bank is centered in the lower half of the image, sitting on a dark wooden surface. Above it, a dark, open umbrella covers the scene. The background is a dark, textured blue-grey, suggesting a rainy day. The overall mood is somber and protective.

- Similarities: OTC market driven.
  - No single exchange for spot market.
  - No single source for an exchange rate.

- Differences

- Liquidity (bid-offer spread)
- Volatility
- Money issuing (centralized/ Decentralized)
- Private information disclosure



# Fiat Money exchange vs Crypto Currencies exchange

## EURUSD EUR=X

LATEST TRADE

1.1312

As of 11:58 AM EST Feb 23 · Minimum 15 minute delay

CHANGE -0.0

Pricing **Bid-ask Spread = 4 bp**

Open	1.1330
Bid	1.1312
Ask	1.1316

From Reuters

### Swap

1

\$2,675.15

**Bid-ask Spread = 16300bp**

ETH

2668.48

\$2,668.48 (-0.249%)

USDC

### Swap

2670.11

\$2,670.11

USDC

1

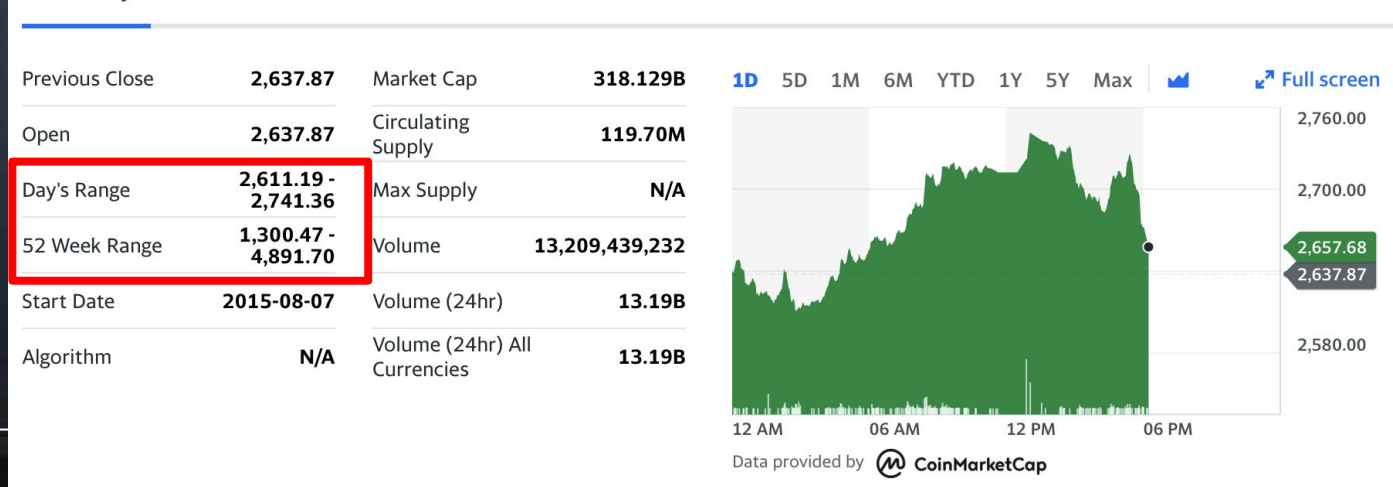
\$2,675.64 (0.207%)

ETH

1 ETH = 2670.11 USDC (\$2,675.64)

From Uniswap

# Fiat Money exchange vs Crypto Currencies exchange



# OBJECTIVE

To create a Cryptocurrency Exchange Platform that is low-cost, trustworthy, and keep user's private information safe.

Primarily, we want to trade USDC with Ether. Buyers and Sellers can post their offer on the user interface. Viewers can select their offers and fill them.



# BENEFITS OF THE CRYPTO FLEA MARKET

A pink piggy bank is centered in the lower half of the image, sitting on a dark wooden surface. Above it, a dark, open umbrella is visible, its handle extending down behind the piggy bank. The background is a dark, textured blue-grey.

- Create Arbitrage opportunities
- Flexibility and customization on orders (exchange price is decided by you).
- Liquidity might not be a big concern at the initial launch of this project.
- Best price might not be on the big exchanges as huge spread involved
- Privacy

# Technical Integration

- Front End



streamlit

- Back End



SOLIDITY



Chainlink

- Testing Env:



Ganache

v2.5.4



Kovan Testnet

The Fast and Reliable Ethereum Test Chain



# Further Explorations...

- More currencies to be onboarded on the platform
- New products: Futures, Forwards, Options

**Thank you!**  
**And Q&A time!**

- More information on this project @  
<https://github.com/VvnShen/Project3/blob/main/README.md>