

# Jeslyn decentralised exchange

Blockchain technology

## Project in a Nutshell

**Build a minimal viable Decentralized Exchange (DEX) on Ethereum**

with a simple (minimally styled) front-end website

which supports

listing of available asset tokens on the marketplace

submission of trading order

matching and execution of orders (i.e., swapping/exchanging/trading assets)

and most importantly in our DEX, users have the  
ultimate control of his/her own digital assets

# Blockchain coding reference

## Beginner

<https://www.hatchd.com.au/blog/building-a-full-stack-decentralised-application>

<https://medium.com/@kaishinaw/erc20-using-hardhat-a-comprehensive-guide-3211efba98d4>

<https://betterprogramming.pub/hands-on-hardhat-write-your-custom-own-token-a8e2857dc9e4>

[https://www.youtube.com/watch?v=d\\_XOWCoUAHY&list=PLS5SEs8ZftgXHEtZ19IXmDQZm\\_1JKaBTK&ab\\_channel=DappUniversity](https://www.youtube.com/watch?v=d_XOWCoUAHY&list=PLS5SEs8ZftgXHEtZ19IXmDQZm_1JKaBTK&ab_channel=DappUniversity)

## Advanced

<https://academy.moralis.io/courses/ethereum-smart-contract-programming-201>

## CryptoZombies

# Investing understanding reference

<https://www.investor.gov/introduction-investing/investing-basics/how-stock-markets-work/types-orders>

<https://www.schwab.com/learn/story/3-order-types-market-limit-and-stop-orders#:~:text=Market%20orders%2C%20limit%20orders%2C%20and,unders tand%20the%20distinctions%20among%20them>

# Technologies

Frontend - React Js, Node Js, Web3 Js

Wallet connection - Metamask

Smart contracts - Hardhat, Solidity, Openzeppelin

Contract deployment - Goerli, Alemchy

# Currency



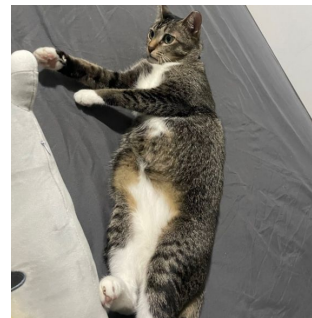
WETH



BIRD TOKEN



DOG TOKEN



CAT TOKEN

# Dapp Demo

Jeslyn's decentralized exchange

## Limit order



WETH



# BIRD TOKEN

Alice: Selling 5 WETH\$ for 3 BIRD\$ each

Bob: Buying 3 BIRD\$ for 5 WETH\$ each



# Market order



WETH



BIRD TOKEN

Alice: Selling 5 WETH\$ for 20 BIRD\$ each

Bob: Buying 5 WETH\$