

Final Project

Your team will build a cryptocurrency trading system that will allow a user to buy and sell cryptocurrencies and track trading profitability and loss.

Technologies to use:

- Python 3
- Flask (or Django)
- Bootstrap 4 / HTML / CSS
- Database: MySQL, MariaDB or MongoDB
- JavaScript / Python libraries are allowed

Considerations

- ~~- Where will I get crypto pricing from?~~
- ~~- How will I store the blotter and PL?~~
- How will I create graphs?
- What type of business rules should I implement so that the trader doesn't cheat my system (i.e. sell shares not in inventory)

Required aspects

- Order management screen allowing the user to buy and sell cryptocurrencies. Bitcoin, ethereum and litecoin are sufficient.
- Tracking and view real-time profit and loss including realized, unrealized PL and volume-weighted average price
- View a history of trades made

Packaging

- All code should be stored on a private Github repository
- Please document how to start the application in the README
- Extra 10 points: Package in a Docker image

Presentation Day Requirements

- Please provide a 10-15 minute presentation on your system
- Slide deck
 - What technologies used
 - Who did what
 - What were challenges and their solutions

- Live demo
 - Show the app running a trade
 - Show some of the cooler code