

# Python Coding Test

**Read the instructions very carefully:**

Please build a simple trading system as a pure REST API with the endpoints outlined below. We want to allow authenticated users the ability to place orders to buy and sell stocks and track the overall value of their investments. Stocks will have an id, name, and price.

- Create an endpoint to let users place trades. When an order is placed we need to record the quantity of the stock the user wants to buy or sell.
- Create an endpoint to retrieve the total value invested in a single stock by a user. To calculate this - we need to sum all the value of all orders placed by the user for a single stock. Order value is calculated by multiplying quantity and stock price.
- Create an endpoint to retrieve the total value invested in a single stock by a user.

What we will be considering:

- Following best practices of python3 and PEP8
- Following Django best practices
- Use of the Django ORM
- Good testing practices
- Following good object oriented design principles
- Extending the outlined functionality is encouraged but not at the cost of code quality
- application of SOLID principles in the designs will be highly regarded