

## Output Files

The outputs are generated for each microservice separately and the output is displayed here.

1. Complete Application: The client sends multiple lookup and trade requests depending on the probability value of 0.5

```
(venv) (base) Vaishnavis-MacBook-Pro:lab2 vaishnavi$ python3 client/client.py
stockname BoarCo
lookup_output {'data': {'name': 'BoarCo', 'price': 1.8, 'quantity': 66}}
trade request : {'name': 'BoarCo', 'quantity': 4, 'type': 'buy'}
trade_output {'data': {'transaction_number': 1}}
stockname GameStart
lookup_output {'data': {'name': 'GameStart', 'price': 2.2, 'quantity': 122}}
trade request : {'name': 'GameStart', 'quantity': 10, 'type': 'sell'}
trade_output {'data': {'transaction_number': 2}}
stockname BoarCo
lookup_output {'data': {'name': 'BoarCo', 'price': 1.8, 'quantity': 62}}
stockname GameStart
lookup_output {'data': {'name': 'GameStart', 'price': 2.2, 'quantity': 132}}
stockname MehirCo
lookup_output {'data': {'name': 'MehirCo', 'price': 2.0, 'quantity': 132}}
stockname Hellow
lookup_output {'error': {'code': 404, 'message': 'stock not found'}}
stockname GameStart
lookup_output {'data': {'name': 'GameStart', 'price': 2.2, 'quantity': 132}}
trade request : {'name': 'GameStart', 'quantity': 158, 'type': 'buy'}
trade_output {'error': {'code': 403, 'message': 'Not enough stock'}}
```

2. Catalog server: The client sends 3 lookup requests followed by 3 trade requests.

```
(venv) (base) Vaishnavis-MacBook-Pro:lab2 vaishnavi$ python3 test_codes/catalog_server_test.py
Input stock: GameStart
received_output :{'data': {'name': 'GameStart','price':2.2,'quantity': 100}}
expected_output :{'data': {'name': 'GameStart','price':2.2,'quantity': 100}}
Input stock: Hellow
received_output :{'error': {'code': 404, 'message': 'stock not found'}}
expected_output :{'error': {'code': 404, 'message': 'stock not found'}}
Input stock: FishCo
received_output :{'data': {'name': 'FishCo','price':1.4,'quantity': 100}}
expected_output :{'data': {'name': 'FishCo','price':1.4,'quantity': 100}}
Input trade: {'name': 'GameStart','quantity': -1,'traded':1}
received_output : {'data': {'message':'Success'}}
expected_output :{'data': {'message':'Success'}}
Input trade: {'name': 'MishCo','quantity': -2,'traded':2}
received_output : {'data': {'message':'Success'}}
expected_output :{'data': {'message':'Success'}}
Input trade : {'name': 'Fishco','quantity':-45,'traded':45}
received_output : {'data': {'message':'Success'}}
expected_output :{'data': {'message':'Success'}}
```

2. Frontend server : The client sends a lookup followed by trade request. The outputs cover all the possible error messages and successful outcomes.

```
(venv) (base) Vaishnavis-MacBook-Pro:lab2 vaishnavi$ python3 frontend_server_test.py
stockname GameStart
lookup_output {"data": {"name": "GameStart","price":2.2,"quantity": 100}}
expected_output {"data": {"name": "GameStart","price":2.2,"quantity": 100}}
trade request {"name": "GameStart","quantity": 105,"type": 'buy'}
trade_output {"error": {"code": 403, "message": 'Not enough stock'}}
expected_output {"error": {"code": 403, "message": 'Not enough stock'}}
stockname Hellow
lookup_output {"error": {"code": 404, "message": "stock not found"}}
expected_output {"error": {"code": 404, "message": "stock not found"}}
stockname FishCo
lookup_output {"data": {"name": "FishCo","price":1.4,"quantity": 100}}
expected_output {"data": {"name": "FishCo","price":1.4,"quantity": 100}}
trade request {"name": "Fishco","quantity":45,"type": 'sell'}
trade_output {"data": {"transaction_number":1}}
expected_output {"data": {"transaction_number":1}}
```

3. Order server : The client sends 4 trade requests. The outputs cover all possible error messages and successful trades.

```
(venv) (base) Vaishnavis-MacBook-Pro:lab2 vaishnavi$ python3 test_codes/order_server_test.py
Input trade : {"name": "GameStart","quantity": 2,"type": 'sell'}
received_output {'data': {'transaction_number': 1}}
expected_output {'data': {'transaction_number': 1}}
Input trade : {"name": "MehirCo","quantity": 123,"type": 'buy'}
received_output {"error": {"code": 403, "message": "Not enough stock"}}
expected_output {'error': {'code': 403, 'message': 'Not enough stock'}}
Input trade : {"name": "FishCo","quantity": 45,"type": 'sell'}
received_output {"data": {"transaction_number": 2}}
expected_output {'data': {'transaction_number': 2}}
Input trade : {"name": "Hellow","quantity": 2,"type": 'sell'}
received_output {'error': {'code': 404, 'message': 'stock not found'}}
expected_output {'error': {'code': 404, 'message': 'stock not found'}}
```