Test Output

Catalog Service Test Output:

```
(base) om@Oms-MacBook-Air test % python3 catalog-service-test.py
Test lookup on a stock that is present in the database
Sending lookup request for : stock1
Lookup request: stock1, response: Price of stock: 25.78, Volume of the stock: 10
.Test lookup on a stock that is not present in the database
Sending lookup request for : IAmNotAStock
Lookup request: IAmNotAStock, response: Price of stock: -1.0, Volume of the stock: -1
.Test buy update on a stock that is present in the database
Sending lookup request for : stock1
Lookup request: stock1, response: Price of stock: 25.78, Volume of the stock: 10
Sending update request of type: 0 for : stock1 with quantity: 10
Trade request: stock1, 10, response status : 1
Sending lookup request for : stock1
Lookup request: stock1, response: Price of stock: 25.78, Volume of the stock: 0
.Test sell update on a stock that is present in the database
Sending lookup request for : stock1
Lookup request: stock1, response: Price of stock: 25.78, Volume of the stock: 0
Sending update request of type: 1 for : stock1 with quantity: 10
Trade request: stock1, 10, response status : 1
Sending lookup request for : stock1
Lookup request: stock1, response: Price of stock: 25.78, Volume of the stock: 10
.Test lookup on a stock that is present in the database but has insufficient volume for buy
Sending update request of type: 0 for : stock1 with quantity: 100000000
Trade request: stock1, 100000000, response status : 0
.Test update on a stock that is not present in the database
Sending update request of type: 0 for : IAmNotAStock with quantity: 10
Trade request: IAmNotAStock, 10, response status : -1
.
----------------------------------------------------------------------
Ran 6 tests in 0.021s

OK
(base) om@Oms-MacBook-Air test % █
```

Order Service Test Output:

```
(base) om@Oms-MacBook-Air test % python3 order-service-test.py
Test buy order on a stock that is present in the database
Sending trade request of type: 0 for : stock1 with quantity: 10
Trade request: stock1, 10, response status : 1
Test sell order on a stock that is present in the database
Sending trade request of type: 1 for : stock1 with quantity: 10
Trade request: stock1, 10, response status : 1
.Test buy order on a stock that is present in the database but has insufficient volume
Sending trade request of type: 0 for : stock1 with quantity: 100000000
Trade request: stock1, 100000000, response status : 0
.Test buy order on a stock that is not present in the database
Sending trade request of type: 0 for : IAmNotAStock with quantity: 10
Trade request: IAmNotAStock, 10, response status : -1
Test sell order on a stock that is present in the database
Sending trade request of type: 1 for : IAmNotAStock with quantity: 10
Trade request: IAmNotAStock, 10, response status : -1
.
----------------------------------------------------------------------
Ran 3 tests in 0.024s

OK
```

Test Output

Frontend Service Test output:

```
PS E:\UMASS_Acads\Sem2\677DOS\Labs_lablets\spring23-lab2-om-vineeth\src\test> python .\frontend_service_test.py
Test Lookup Failure because of invalid path
GET request: /stock?stockname=stock1
Response: Path not found
.Test Lookup Failure because of invalid stockname
GET request: /stocks?stockname=stock10
Response:{'error': {'code': 404, 'message': 'stock not found'}}
.Test Lookup Success
GET request: /stocks?stockname=stock1
Response:{'data': {'name': 'stock1', 'price': 25.78, 'quantity': 10}}
.Test Order Failure because of invalid trade quantity
POST request: {'name': 'stock1', 'quantity': -5, 'type': 'BUY'}
Response:{'error': {'code': 404, 'message': 'Stock not found'}}
.Test Order Failure because of invalid stockname
POST request: {'name': 'stock8', 'quantity': 10, 'type': 'BUY'}
Response:{'error': {'code': 404, 'message': 'Stock not found'}}
.Test Order Success
POST request: {'name': 'stock3', 'quantity': 25, 'type': 'SELL'}
Response:{'data': {'transaction_number': 4}}
.Test Order Failure because of invalid trade type
POST request: {'name': 'stock1', 'quantity': 5, 'type': 'word'}
Response:{'error': {'code': 404, 'message': 'Internal Server Error'}}
.Test Order Failure because trade quantity more than available volume
POST request: {'name': 'stock5', 'quantity': 100, 'type': 'BUY'}
Response:{'error': {'code': 404, 'message': 'Trading not permitted due to insufficient volume'}}
.
----------------------------------------------------------------
Ran 8 tests in 0.104s

OK
PS E:\UMASS_Acads\Sem2\677DOS\Labs_lablets\spring23-lab2-om-vineeth\src\test>
```