TEST CASES OUTPUT

TEST 1 : Testing for Placing an order for a certain product

```
.Test1
Testing for Placing an order for a certain product HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9252}}
```

TEST 2 : Placing an order for a certain product with a quantity higher than in the toy store

```
.Test2
Testing for placing an order for a certain product with a quantity higher than in the toy store HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 48

{"data": {"code": 404, "message": "Stock Over"}}
```

TEST 3 : Querying the details of an existing product

```
.Test3
Testing for Querying the details of an existing product HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"data": {"name": "Tux", "price": 10.99, "quantity": 100}}
```

TEST 4 : Querying the details of non-existing product

```
.Test4
Testing for Querying the details of non-existing product HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 55

{"data": {"code": 404, "message": "product not found"}}
```

TEST 5 : Testing invalid method call

```
.Test5
Testing Invalid method response HTTP/1.1 404 Invalid Method Call
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"error": {"code": 404, "message": "Invalid Method Call"}}
```

TEST CASES OUTPUT

TEST 6: Testing Invalid URL path

```
.Test6
Testing Invalid URL Path response HTTP/1.1 404 Invalid URL Path
Content-Type: application/json; charset=UTF-8
Content-Length: 55

{"error": {"code": 404, "message": "Invalid URL Path"}}
```

TEST 7: Testing Invalid Resource for this Request type

```
.Test7
Testing Invalid resource response HTTP/1.1 404 {order_number} parameter missing
Content-Type: application/json; charset=UTF-8
Content-Length: 71

{"error": {"code": 404, "message": "{order_number} parameter missing"}}
```

TEST 8: Testing {product_name} parameter missing in POST method

```
Test8
Testing for missing param in POST method HTTP/1.1 404 name or quantity parameter missing in raw json file
Content-Type: application/json; charset=UTF-8
Content-Length: 90

{"error": {"code": 404, "message": "name or quantity parameter missing in raw json file"}}
```

TEST 9: Testing parameter missing in GET method

```
.Test9
Testing for missing param in GET method HTTP/1.1 404 {product_name} parameter missing
Content-Type: application/json; charset=UTF-8
Content-Length: 71

{"error": {"code": 404, "message": "{product_name} parameter missing"}}
```

TEST 10: Testing for Querying the details of an existing order

```
Test10
Testing for Querying the details of an existing orders HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 61

{"data": {"order_number": 10, "name": "Bird", "quantity": 4}}
```

TEST 11: Testing for Querying the details of an non-existing order

TEST CASES OUTPUT

```
.Test11
Testing for Querying the details of an non-existing orders HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"data": {"code": 404, "message": "Invalid order_number"}}
```

TEST 12: Testing Replication and Fault Tolerance

```
.Test12
Sending post request - 1
Testing for Placing an order for a certain product when all the 3 services are up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9247}}

Sending post request - 2
Testing for Placing an order for a certain product when 2 services are up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9248}}

Sending post request - 3
Testing for Placing an order for a certain product when only 1 service is up-post once HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9249}}

Sending post request - 4
Testing for Placing an order for a certain product when only 1 service is up-post twice HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9250}}

Sending post request - 5
Testing for Placing an order for a certain product when only 1 service is up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9251}}
```

Complete Output after running the test cases file :

TEST CASES OUTPUT

```
susmita@ubuntu-SUsmita:~/Documents/CS677$ /bin/python3 /home/susmita/Documents/CS677/lab3-spring22-susmitha-muni/test/Testcases.py
Test8
Testing for missing param in POST method HTTP/1.1 404 name or quantity parameter missing in raw json file
Content-Type: application/json; charset=UTF-8
Content-Length: 90

{"error": {"code": 404, "message": "name or quantity parameter missing in raw json file"}}

.Test10
Testing for Querying the details of an existing order HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 61

{"data": {"order_number": 10, "name": "Bird", "quantity": 4}}

.Test3
Testing for Querying the details of an existing product HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"data": {"name": "Tux", "price": 10.99, "quantity": 100}}

.Test11
Testing for Querying the details of a non-existing order HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"data": {"code": 404, "message": "Invalid order_number"}}

.Test4
Testing for Querying the details of non-existing product HTTP/1.1 1 Get method success
Content-Type: application/json; charset=UTF-8
Content-Length: 55

{"data": {"code": 404, "message": "product not found"}}

.Test9
Testing for missing param in GET method HTTP/1.1 404 {product_name} parameter missing
Content-Type: application/json; charset=UTF-8
Content-Length: 71

{"error": {"code": 404, "message": "{product_name} parameter missing"}}
```

```
.Test9
Testing for missing param in GET method HTTP/1.1 404 {product_name} parameter missing
Content-Type: application/json; charset=UTF-8
Content-Length: 71

{"error": {"code": 404, "message": "{product_name} parameter missing"}}

.Test12
Sending post request - 1
Testing for Placing an order for a certain product when all the 3 services are up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9247}}

Sending post request - 2
Testing for Placing an order for a certain product when 2 services are up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9248}}

Sending post request - 3
Testing for Placing an order for a certain product when only 1 service is up-post once HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9249}}

Sending post request - 4
Testing for Placing an order for a certain product when only 1 service is up-post twice HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9250}}

Sending post request - 5
Testing for Placing an order for a certain product when only 1 service is up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9251}}
```

TEST CASES OUTPUT

```
Sending post request - 5
Testing for Placing an order for a certain product when only 1 service is up HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9251}}

.Test2
Testing for placing an order for a certain product with a quantity higher than in the toy store HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 48

{"data": {"code": 404, "message": "Stock Over"}}

.Test1
Testing for Placing an order for a certain product HTTP/1.1 1 Post method success
Content-Type: application/json; charset=UTF-8
Content-Length: 32

{"data": {"order_number": 9252}}

.Test5
Testing Invalid method response HTTP/1.1 404 Invalid Method Call
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"error": {"code": 404, "message": "Invalid Method Call"}}

.Test7
Testing Invalid resource response HTTP/1.1 404 {order_number} parameter missing
Content-Type: application/json; charset=UTF-8
Content-Length: 71

{"error": {"code": 404, "message": "{order_number} parameter missing"}}
```

```
.Test5
Testing Invalid method response HTTP/1.1 404 Invalid Method Call
Content-Type: application/json; charset=UTF-8
Content-Length: 58

{"error": {"code": 404, "message": "Invalid Method Call"}}

.Test7
Testing Invalid resource response HTTP/1.1 404 {order_number} parameter missing
Content-Type: application/json; charset=UTF-8
Content-Length: 71

{"error": {"code": 404, "message": "{order_number} parameter missing"}}

.Test6
Testing Invalid URL Path response HTTP/1.1 404 Invalid URL Path
Content-Type: application/json; charset=UTF-8
Content-Length: 55

{"error": {"code": 404, "message": "Invalid URL Path"}}

.
----------------------------------------------------------------------
Ran 12 tests in 60.104s

OK
susmita@ubuntu-SUsmita:~/Documents/CS677$
```