

Test Results Report

This report summarizes the execution of test cases for the PizzaDronz system. The testing process aims to verify the correctness, robustness, and efficiency of different system components, including API endpoints, order validation, pathfinding algorithms, and combinatorial logic.

Summary of test cases executed

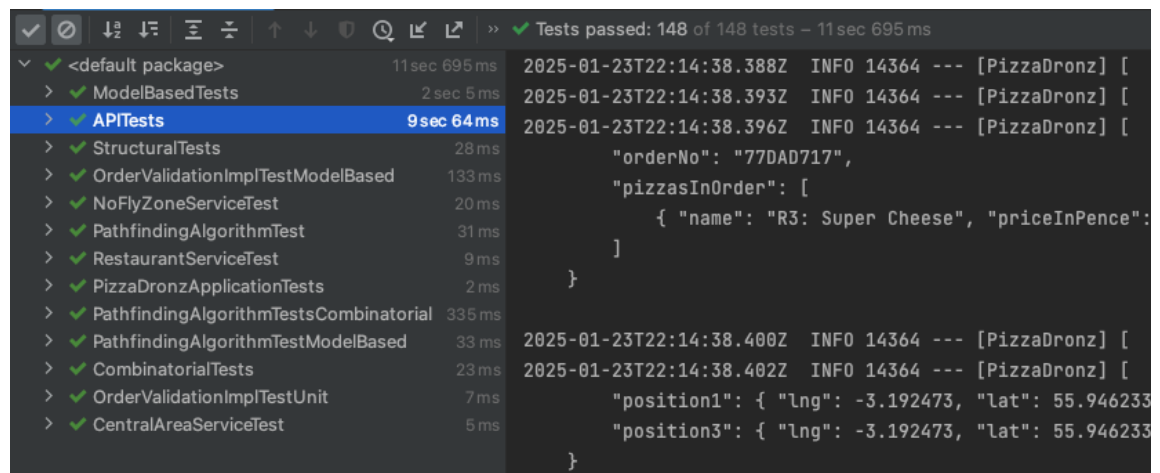
Test files can be found in

<https://github.com/ediithhh/SoftwareTesting/tree/main/src/test/java/uk/ac/ed/inf>

- Total tests executed: 147
- Tests passed: 147

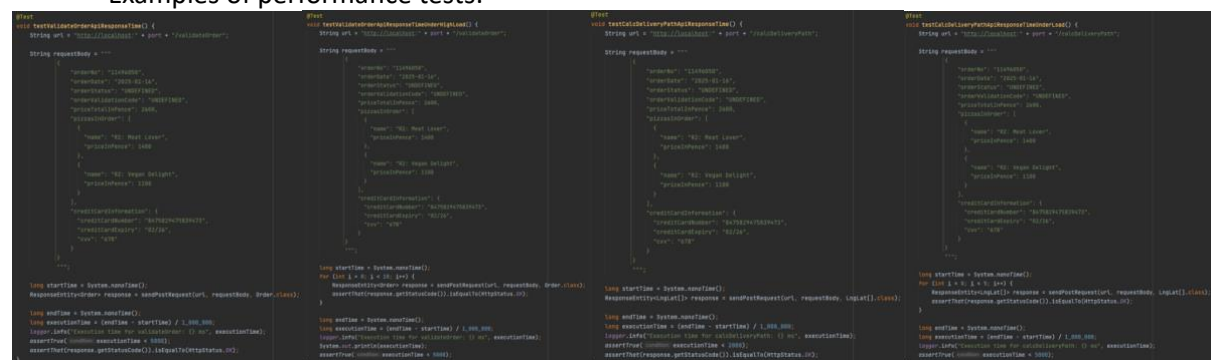
Test Category	Number of Tests	Passed tests
Unit Tests	40	40/40
Combinatorial Tests	20	20/20
Model-Based Tests	32	32/32
Structural Tests	13	13/13
API Tests	42	42/42

- Test completion time: 11sec 695ms



Performance tests:

Examples of performance tests:



Test log for execution time of calcDeliveryPath:

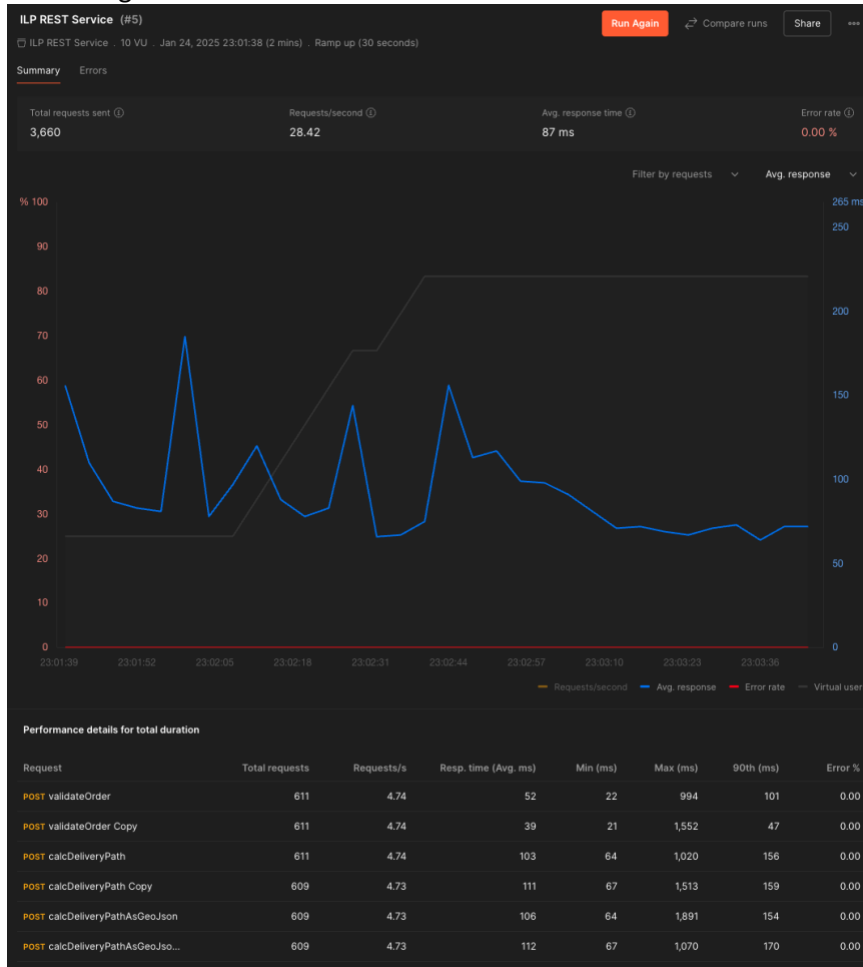
```

INFO 25229 --- [PizzaDronz] [http-nio-auto-1-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
INFO 25229 --- [PizzaDronz] [http-nio-auto-1-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
INFO 25229 --- [PizzaDronz] [http-nio-auto-1-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 0 ms
INFO 25229 --- [PizzaDronz] [main] uk.ac.ed.inf.APITests : Response from http://localhost:55403/calcDeliveryPath: Status 200 OK, Body [Ln
INFO 25229 --- [PizzaDronz] [main] uk.ac.ed.inf.APITests : Execution time for calcDeliveryPath: 463 ms

```

Test logs can be found in <https://github.com/ediithhh/SoftwareTesting/blob/main/logs/test.log>

Simulating 10 concurrent users on Postman:



Code Coverage Report

- Overall code coverage:
 - Classes covered: 95% (20/21)
 - Methods covered: 96% (107/111)
 - Lines covered: 92% (410/444)

Coverage: java in PizzaDronz

Element	Class, %	Method, %	Line, %
uk	95% (20/21)	96% (107/111)	92% (410/444)
ac	95% (20/21)	96% (107/111)	92% (410/444)
ed	95% (20/21)	96% (107/111)	92% (410/444)
inf	95% (20/21)	96% (107/111)	92% (410/444)
constant	66% (2/3)	100% (4/4)	100% (17/17)
controller	100% (1/1)	100% (17/17)	84% (120/142)
data	100% (10/10)	98% (51/52)	98% (84/85)
external	100% (3/3)	100% (6/6)	96% (24/25)
flightpath	100% (2/2)	88% (15/17)	95% (81/85)
interfaces	100% (0/0)	100% (0/0)	100% (0/0)
validation	100% (1/1)	100% (13/13)	94% (82/87)
PizzaDronzApplication	100% (1/1)	50% (1/2)	66% (2/3)