

Flight Booking Application Performance Report

SonarQube Report:

This screenshot shows the SonarQube analysis report for the FlightBookingWebFlux project. It includes the project name, analysis date (11/24/2025, 9:42 PM), and code statistics (917 Lines of Code, Java, XML). Key quality metrics are displayed: Security (A, 0), Reliability (A, 0), Maintainability (A, 14), Hotspots Reviewed (A, 100%), Coverage (91.5%), and Duplications (0.0%). A green checkmark indicates the analysis is passed.

This screenshot shows the SonarQube issues overview. It lists filters for Software quality (Security: 0, Reliability: 0, Maintainability: 14) and Severity (Blocker: 0, High: 0, Medium: 0, Low: 4, Info: 10). Three specific issues are detailed:

- src/.../java/org/example/flightapp/DTO/PassengerDTO.java**: Rename this package name to match the regular expression '^a-z_+([a-z_][a-z0-9_]*\$'. Priority: Maintainability, Level: Low. Created by Vishnu Varadhan, L1 effort, 1 day ago, Code Smell, Minor.
- src/.../java/org/example/flightapp/DTO/ScheduleDTO.java**: Rename this package name to match the regular expression '^a-z_+([a-z_][a-z0-9_]*\$'. Priority: Maintainability, Level: Low. Created by Vishnu Varadhan, L1 effort, 1 day ago, Code Smell, Minor.
- src/.../java/org/example/flightapp/DTO/SearchQueryDTO.java**: Rename this package name to match the regular expression '^a-z_+([a-z_][a-z0-9_]*\$'. Priority: Maintainability, Level: Low. Created by Vishnu Varadhan, L1 effort, 1 day ago, Code Smell, Minor.

JaCoCo Report:

FlightBookingWebFlux

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxt	Missed	Lines	Missed	Methods	Missed	Classes
org.example.flightapp.exception		33%	n/a	10	19	12	29	10	19	0	9	
org.example.flightapp.controller		82%	n/a	3	16	5	29	3	16	0	4	
org.example.flightapp		37%	n/a	1	2	2	3	1	2	0	1	
org.example.flightapp.service.implementation		99%		83%	2	41	0	140	0	35	0	4
org.example.flightapp.DTO		100%	n/a	0	4	0	4	0	4	0	4	
org.example.flightapp.model.entity		100%	n/a	0	3	0	20	0	3	0	3	
org.example.flightapp.model.enums		100%	n/a	0	3	0	10	0	3	0	3	
Total	92 of 974	90%	2 of 12	83%	16	88	19	235	14	82	0	28

Jmeter Testing:

HTTP Request

Name: HTTP Request

Comments:

Basic Advanced

Web Server

Protocol [http]: Server Name or IP: localhost Port Number: 8080

HTTP Request

Method: GET Path: /api/v1.0/flight/booking/history/arjun.mehta@example.com Content encoding:

Redirect Automatically Follow Redirects Use KeepAlive Use multipart/form-data Browser-compatible headers

1) 20 request

Summary Report

Name: Flight Application - WebFlux MongoDB

Comments:

Write results to file / Read from file

Filename: Log/Display Only: Errors Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB...	Sent KB/sec	Avg. Bytes
HTTP Requ...	20	4	4	7	0.74	0.00%	4.2/sec	15.42	0.70	3753.0
TOTAL	20	4	4	7	0.74	0.00%	4.2/sec	15.42	0.70	3753.0

2) 50 Request

Summary Report

Name: Flight Application - WebFlux MongoDB

Comments:

Write results to file / Read from file

Filename: Log/Display Only: Errors Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB...	Sent KB/sec	Avg. Bytes
HTTP Requ...	50	4	3	6	0.58	0.00%	10.2/sec	37.36	1.70	3753.0
TOTAL	50	4	3	6	0.58	0.00%	10.2/sec	37.36	1.70	3753.0

3) 100 Request

Summary Report

Name: Flight Application - WebFlux MongoDB

Comments:

Write results to file / Read from file

Filename Log/Display Only: Errors Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Requ...	100	4	3	8	0.79	0.00%	20.2/sec	74.00	3.37	3753.0
TOTAL	100	4	3	8	0.79	0.00%	20.2/sec	74.00	3.37	3753.0