









JaCoCo Report









1.

customer-service												
customer-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
 com.lms.customer.service		89%		n/a	1	6	2	22	1	6	0	1
 com.lms.customer.controller		75%		n/a	1	4	2	7	1	4	0	1
 com.lms.customer		37%		n/a	1	2	2	3	1	2	0	1
 com.lms.customer.exception		100%		n/a	0	5	0	14	0	5	0	2
Total	21 of 171	87%	0 of 0	n/a	3	17	6	46	3	17	0	5

Customer Service – JaCoCo Coverage Summary

- **Overall Instruction Coverage:** 87%
- **Line Coverage:** 40 / 46 lines covered
- **Method Coverage:** 14 / 17 methods covered
- **Class Coverage:** 5 / 5 classes covered
- **Exception Layer:** 100% covered
- **Service Layer:** High coverage (minor edge cases untested)
- **Controller Layer:** Moderate coverage (some endpoints/error paths missing)
- **Core Package:** Low coverage due to bootstrap/config code
- **Untested Classes:** None
- **Status:** Near quality-gate compliance; minor test additions required








2.

loan-application-service												
loan-application-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Ctxy	Missed Lines	Missed Methods	Missed Classes				
com.lms.loanapplication.service.impl		92%		100%	1 6	4 39	1 5	0 1				
com.lms.loanapplication		37%	n/a	n/a	1 2	2 3	1 2	0 1				
com.lms.loanapplication.kafka		100%	n/a	n/a	0 5	0 15	0 5	0 2				
com.lms.loanapplication.exception		100%	n/a	n/a	0 5	0 14	0 5	0 2				
com.lms.loanapplication.model		100%	n/a	n/a	0 1	0 6	0 1	0 1				
com.lms.loanapplication.controller		100%	n/a	n/a	0 3	0 3	0 3	0 1				
com.lms.loanapplication.dto		100%	n/a	n/a	0 2	0 2	0 2	0 2				
Total	15 of 306	95%	0 of 2	100%	2 24	6 82	2 23	0 10				

Loan Application Service – JaCoCo Coverage Summary

- **Overall Instruction Coverage: 95%**
- **Branch Coverage: 100%**
- **Line Coverage: 76 / 82 lines covered**
- **Method Coverage: 21 / 23 methods covered**
- **Class Coverage: 10 / 10 classes covered**
- **Service Implementation Layer: High coverage (minor logic paths untested)**
- **Controller Layer: 100% covered**
- **Kafka & Exception Layers: 100% covered**
- **Model & DTO Layers: 100% covered**
- **Core Package: Low coverage due to bootstrap/config code**
- **Untested Classes: None**
- **Status: Quality-gate compliant; production-ready**









3.

loan-processing-service												
loan-processing-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.lms.loanprocessing.service		93%		82%	9	32	5	140	4	17	0	3
com.lms.loanprocessing.util		81%		62%	3	5	2	16	0	1	0	1
com.lms.loanprocessing.controller		77%	n/a	n/a	1	3	1	6	1	3	0	1
com.lms.loanprocessing.exception		88%	n/a	n/a	1	5	2	14	1	5	1	3
com.lms.loanprocessing.consumer		100%	n/a	n/a	0	4	0	12	0	4	0	2
Total	45 of 569	92%	8 of 37	78%	14	49	10	188	6	30	1	10

Loan Processing Service – JaCoCo Coverage Summary

- **Overall Instruction Coverage: 92%**
- **Branch Coverage: 78%**
- **Line Coverage:** 178 / 188 lines covered
- **Method Coverage:** 24 / 30 methods covered
- **Class Coverage:** 9 / 10 classes covered
- **Service Layer:** High coverage with some conditional paths untested
- **Utility Layer:** Moderate coverage; branch scenarios partially missing
- **Controller Layer:** Moderate coverage; limited endpoint/error-path tests
- **Consumer Layer:** 100% covered
- **Exception Layer:** Good coverage with minor gaps
- **Untested Classes:** 1
- **Status:** Acceptable coverage; branch and utility tests need improvement





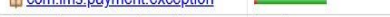





4.

notification-service												
notification-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.lms.notification.controller		84%		n/a	1	2	0	9	1	2	0	1
com.lms.notification		37%		n/a	1	2	2	3	1	2	0	1
com.lms.notification.consumer		100%		n/a	0	2	0	16	0	2	0	2
com.lms.notification.service.impl		100%		n/a	0	1	0	16	0	1	0	1
com.lms.notification.model.enums		100%		n/a	0	2	0	8	0	2	0	2
com.lms.notification.config		100%		n/a	0	3	0	8	0	3	0	1
com.lms.notification.service		100%		n/a	0	1	0	6	0	1	0	1
com.lms.notification.exception		100%		n/a	0	3	0	7	0	3	0	2
Total	10 of 252	96%	0 of 0	n/a	2	16	2	73	2	16	0	11

Notification Service – JaCoCo Coverage Summary

- **Overall Instruction Coverage: 96%**
- **Branch Coverage:** Not applicable
- **Line Coverage:** 71 / 73 lines covered
- **Method Coverage:** 14 / 16 methods covered
- **Class Coverage:** 11 / 11 classes covered
- **Service & Implementation Layers:** 100% covered
- **Consumer Layer:** 100% covered
- **Model, Enum & Config Layers:** 100% covered
- **Controller Layer:** Good coverage; minor endpoint paths untested
- **Core Package:** Low coverage due to bootstrap/config code
- **Untested Classes:** None
- **Status:** Quality-gate compliant; production-ready







5.

payment-service												
payment-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.lms.payment.service.impl		93%		100%	1	5	4	60	1	4	0	1
com.lms.payment.controller		33%	n/a	n/a	2	3	2	3	2	3	0	1
com.lms.payment		37%	n/a	n/a	1	2	2	3	1	2	0	1
com.lms.payment.exception		95%		100%	1	10	2	23	1	9	1	5
com.lms.payment.config		100%	n/a	n/a	0	7	0	10	0	7	0	4
com.lms.payment.model.enums		100%	n/a	n/a	0	1	0	4	0	1	0	1
com.lms.payment.messaging		100%	n/a	n/a	0	2	0	6	0	2	0	1
com.lms.payment.util		100%	n/a	n/a	0	2	0	2	0	2	0	2
Total	29 of 359	91%	0 of 4	100%	5	32	10	111	5	30	1	16

Payment Service – JaCoCo Coverage Summary

- **Overall Instruction Coverage: 91%**
- **Branch Coverage: 100%**
- **Line Coverage:** 101 / 111 lines covered
- **Method Coverage:** 25 / 30 methods covered
- **Class Coverage:** 15 / 16 classes covered
- **Service Implementation Layer:** High coverage with minor logic paths untested
- **Controller Layer:** Low coverage; missing endpoint and error-path tests
- **Exception Layer:** Very good coverage with minor gaps
- **Config, Enum, Messaging & Utility Layers:** 100% covered
- **Core Package:** Low coverage due to bootstrap/config code
- **Untested Classes:** 1
- **Status:** Acceptable coverage; controller tests need improvement

6.

analytics-service												
analytics-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.lms.analytics.consumer		0%		n/a	3	3	3	3	3	3	3	3
com.lms.analytics.config		88%		n/a	2	6	2	11	2	6	2	3
com.lms.analytics		37%		n/a	1	2	2	3	1	2	0	1
com.lms.analytics.service.impl		98%		50%	1	3	0	36	0	2	0	1
com.lms.analytics.controller		100%		n/a	0	1	0	1	0	1	0	1
Total	21 of 159	86%	1 of 2	50%	7	15	7	54	6	14	5	9

Analytics Service – JaCoCo Coverage Summary

- **Overall Instruction Coverage: 86%**
- **Branch Coverage: 50%**
- **Line Coverage:** 47 / 54 lines covered
- **Method Coverage:** 8 / 14 methods covered
- **Class Coverage:** 4 / 9 classes covered
- **Service Implementation Layer:** Very high instruction coverage; partial branch coverage
- **Controller Layer:** 100% covered
- **Config Layer:** Good coverage with minor gaps
- **Consumer Layer:** 0% covered; tests missing
- **Core Package:** Low coverage due to bootstrap/config code
- **Untested Classes:** 5
- **Status:** Below quality-gate threshold; consumer and branch tests required