

JaCoCo Report

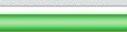
1.

customer-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Cov.	Missed Methods	Cov.	Missed Classes		
com.lms.customer.service	<div style="width: 89%;">██████████</div>	89%	n/a	1	6	2	22	1	6	0	1	
com.lms.customer.controller	<div style="width: 75%;">█████</div>	75%	n/a	1	4	2	7	1	4	0	1	
com.lms.customer	<div style="width: 37%;">███</div>	37%	n/a	1	2	2	3	1	2	0	1	
com.lms.customer.exception	<div style="width: 100%;">██████████</div>	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.

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
com.lms.loanapplication.service.impl	 92%	 100%	1	6	4	39	1	5
com.lms.loanapplication	 37%	n/a	1	2	2	3	1	2
com.lms.loanapplication.kafka	 100%	n/a	0	5	0	15	0	5
com.lms.loanapplication.exception	 100%	n/a	0	5	0	14	0	5
com.lms.loanapplication.model	 100%	n/a	0	1	0	6	0	1
com.lms.loanapplication.controller	 100%	n/a	0	3	0	3	0	3
com.lms.loanapplication.dto	 100%	n/a	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												
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	1	3	1	6	1	3	0	1
com.lms.loanprocessing.exception		88%		n/a	1	5	2	14	1	5	1	3
com.lms.loanprocessing.consumer		100%		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.

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Ctry	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.

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.lms.payment.service.impl	<div style="width: 7%"></div>	93%	<div style="width: 100%"></div>	100%	1	5	4	60	1	4	0	1
com.lms.payment.controller	<div style="width: 3%"></div>	33%		n/a	2	3	2	3	2	3	0	1
com.lms.payment	<div style="width: 1%"></div>	37%		n/a	1	2	2	3	1	2	0	1
com.lms.payment.exception	<div style="width: 5%"></div>	95%	<div style="width: 100%"></div>	100%	1	10	2	23	1	9	1	5
com.lms.payment.config	<div style="width: 2%"></div>	100%		n/a	0	7	0	10	0	7	0	4
com.lms.payment.model.enums	<div style="width: 1%"></div>	100%		n/a	0	1	0	4	0	1	0	1
com.lms.payment.messaging	<div style="width: 1%"></div>	100%		n/a	0	2	0	6	0	2	0	1
com.lms.payment.util	<div style="width: 1%"></div>	100%		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.

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	3 3	3 3
com.lms.analytics.config	88%	n/a	2 6	2 11	2 6	2 6	2 3	2 3
com.lms.analytics	37%	n/a	1 2	2 3	1 2	0 1	0 1	0 1
com.lms.analytics.service.impl	98%	50%	1 3	0 36	0 2	0 0	0 1	0 1
com.lms.analytics.controller	100%	n/a	0 1	0 1	0 0	1 0	0 0	1 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