Backend Report

Newman report:

	executed	failed
iterations	1	0
requests	46	0
test-scripts	0	0
prerequest-scripts	0	0
assertions	0	0
total run duration: 4.6s		
total data received: 11.59kB (approx)		
average response time: 92ms [min: 4ms, max: 3.1s, s.d.: 456ms]		

(Note: full detailed test report can be found in newman folder in root directory)
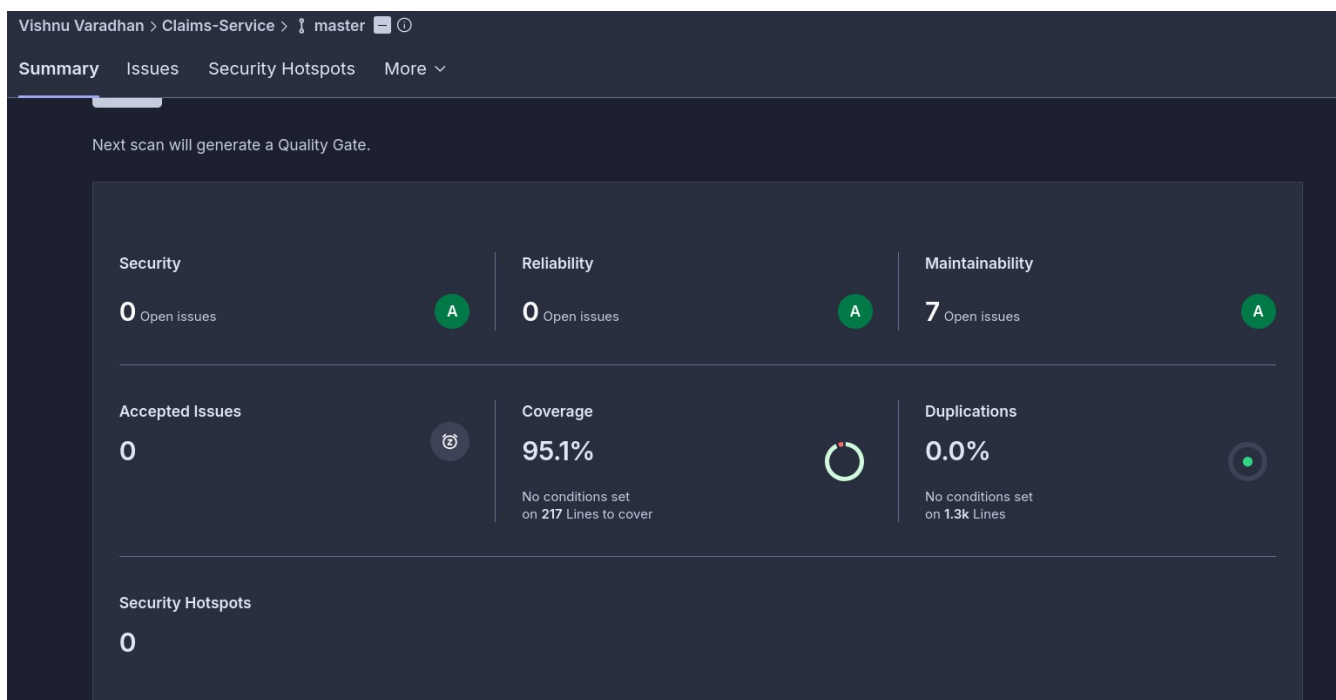
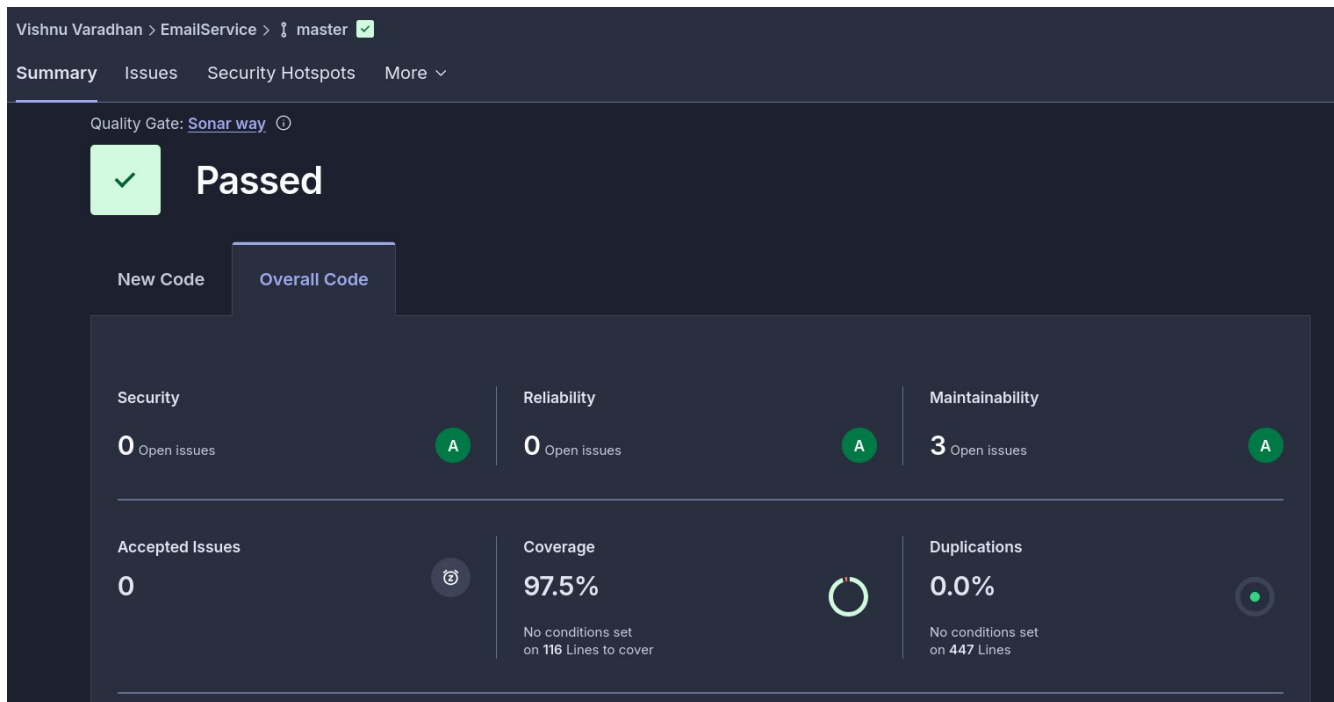# SonarQube Analysis:

Billing Service:
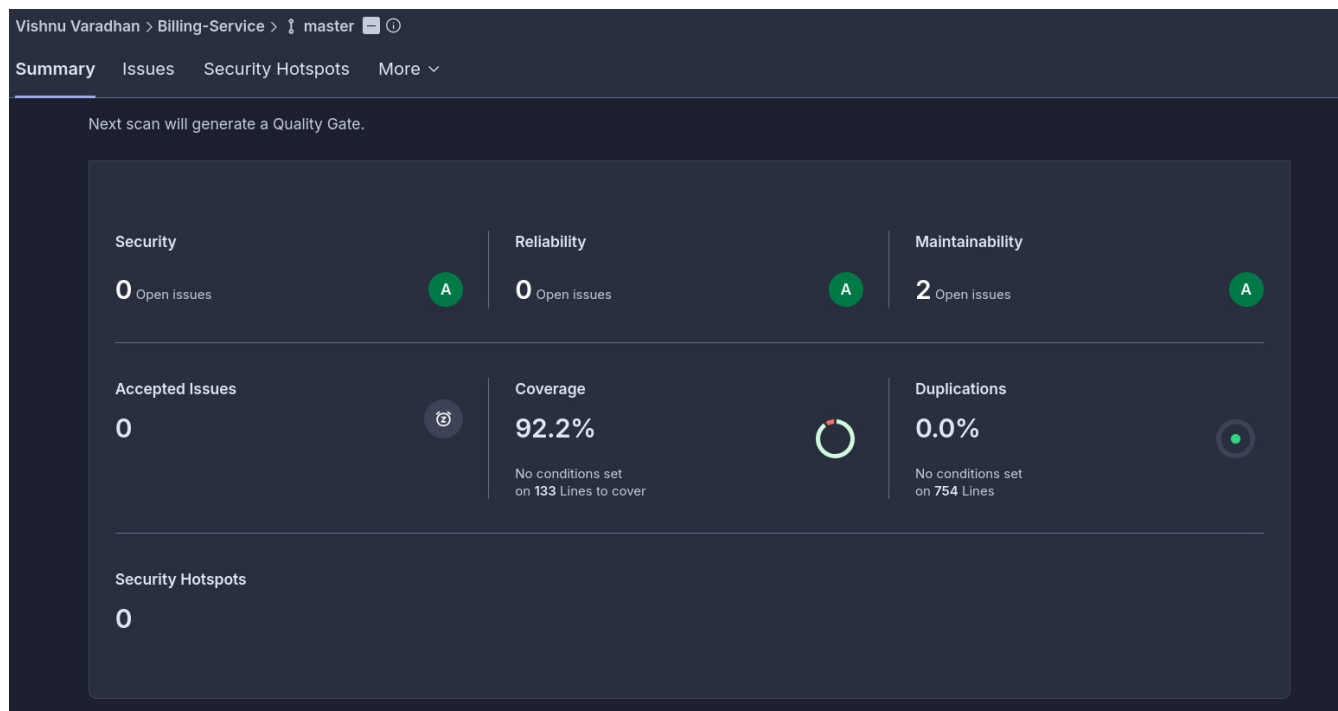
Link = https://sonarcloud.io/summary/overall?id=vi2hnu-1_shims-billing-service&branch=master

Claims Service:

link = https://sonarcloud.io/summary/overall?id=vi2hnu-1_shims-claims-service&branch=master

EmailService

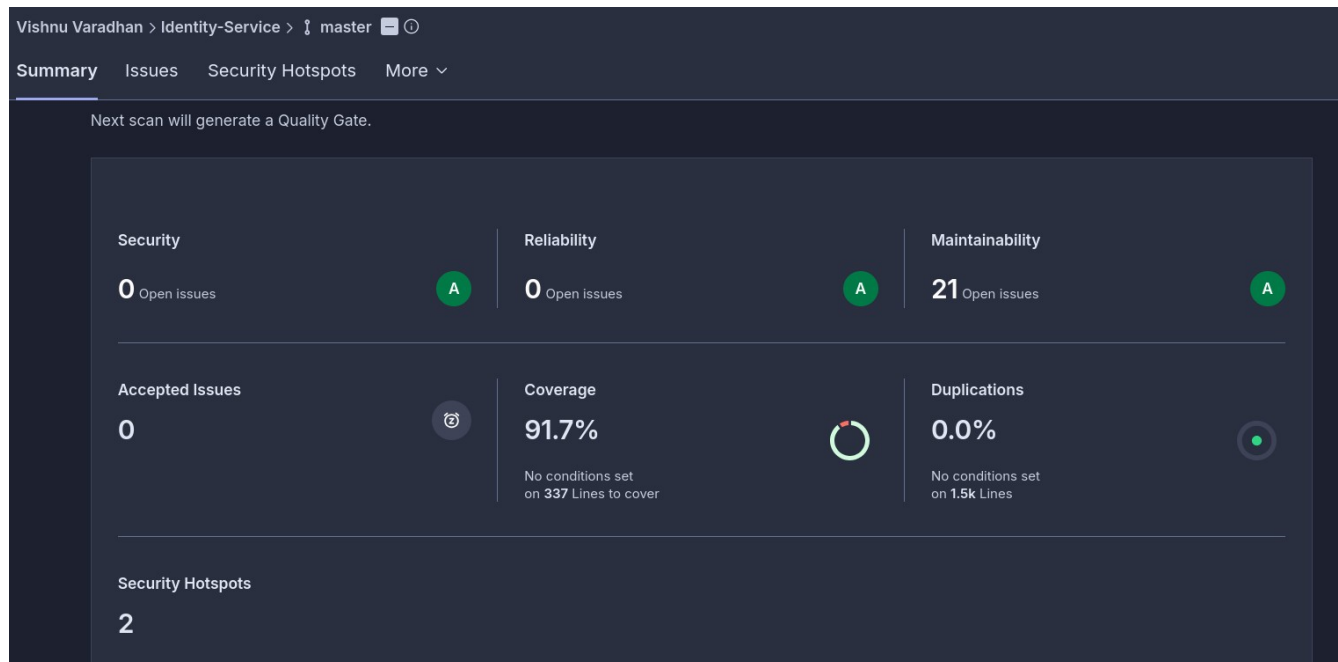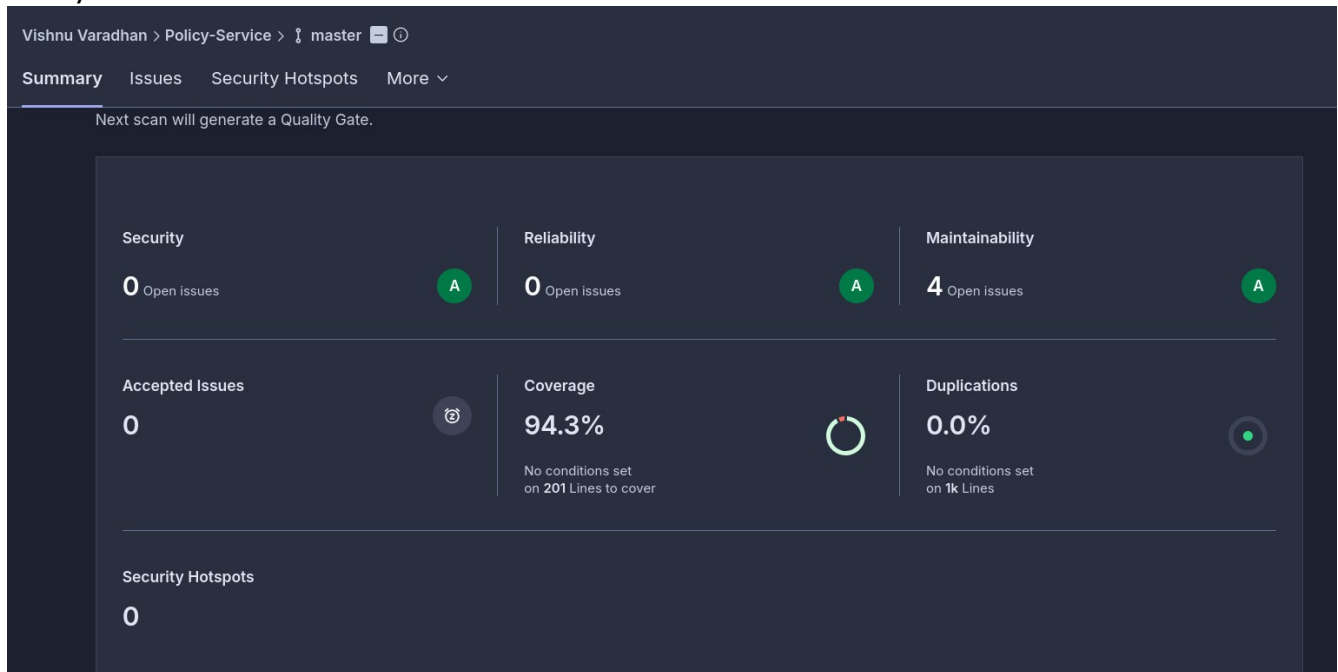Link = https://sonarcloud.io/summary/overall?id=vi2hnu-1_shims-email-service&branch=master
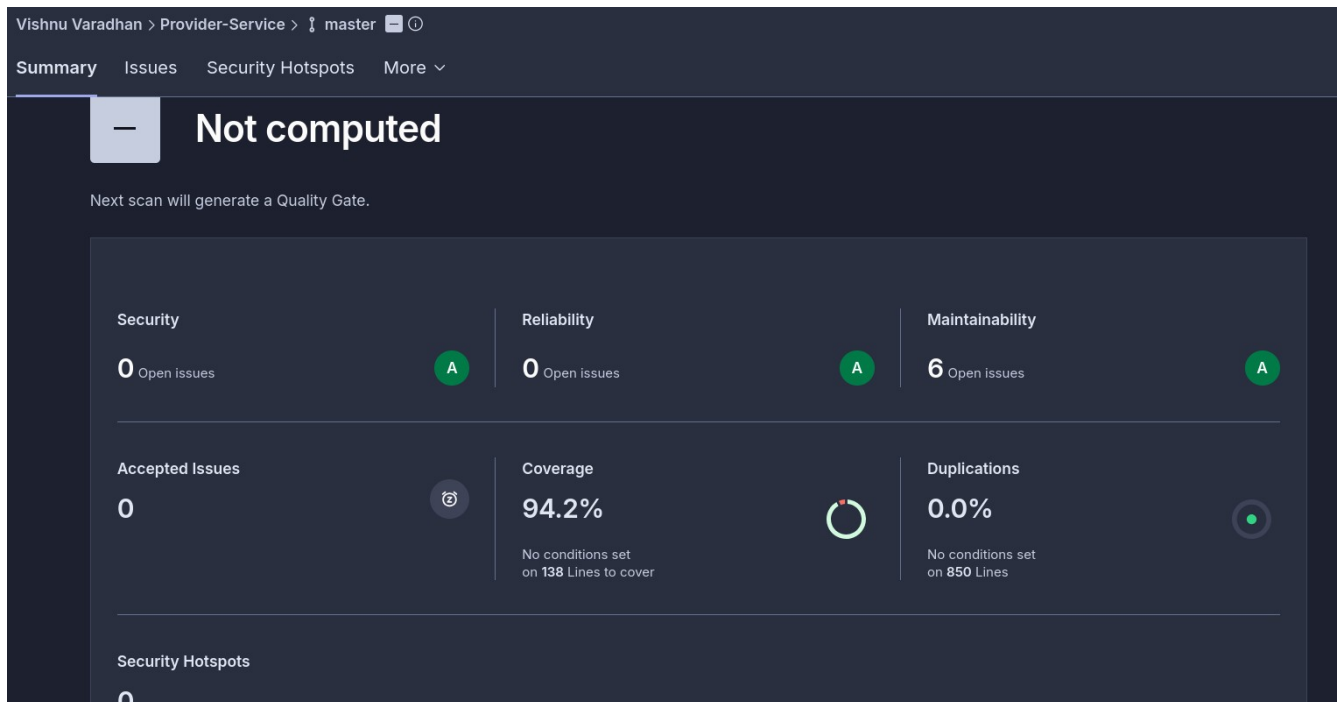

Link =https://sonarcloud.io/summary/overall?id=vi2hnu-1_shims-identity-service&branch=master

Policy-Service:

Link = https://sonarcloud.io/summary/overall?id=vi2hnu-1_shims-policy-service&branch=master

Provider Service:

Jacoco Report:

Billing-Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.billingservice.configuration		0%		n/a	3	3	6	6	3	3	1	1
org.example.billingservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.billingservice.exception		91%		100%	1	10	1	22	1	9	0	4
org.example.billingservice.service.implementation		97%		100%	0	18	2	69	0	15	0	2
org.example.billingservice.model.enums		100%		n/a	0	3	0	10	0	3	0	3
org.example.billingservice.dto		100%		n/a	0	6	0	5	0	6	0	6
org.example.billingservice.model.entity		100%		n/a	0	3	0	19	0	3	0	3
org.example.billingservice.controller		100%		n/a	0	4	0	8	0	4	0	1
org.example.billingservice.kafka		100%		n/a	0	2	0	5	0	2	0	1
Total	46 of 625	92%	0 of 8	100%	6	51	12	147	6	47	2	22

Claims-Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.claimsservice.service.implementation		90%		73%	10	42	8	124	4	27	0	3
org.example.claimsservice.configuration		0%		n/a	2	2	2	2	2	2	1	1
org.example.claimsservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.claimsservice.controller		94%		n/a	1	19	1	29	1	19	0	5
org.example.claimsservice.model.entity		94%		n/a	1	4	2	22	1	4	0	2
org.example.claimsservice.dto		99%		50%	1	10	1	24	0	9	0	8
org.example.claimsservice.model.enums		100%		n/a	0	5	0	20	0	5	0	5
org.example.claimsservice.exception		100%		100%	0	16	0	31	0	15	0	7
Total	79 of 1,250	93%	9 of 34	73%	17	100	17	255	10	83	2	32

EmailService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.emailservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.emailservice.service.implementation		100%		100%	0	10	0	84	0	8	0	1
org.example.emailservice.dto		100%		n/a	0	7	0	12	0	7	0	7
org.example.emailservice.kafka		100%		n/a	0	8	0	17	0	8	0	1
Total	8 of 495	98%	0 of 4	100%	2	27	3	116	2	25	1	10

Identity-Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.identityservice.service.user		78%		87%	3	15	12	46	2	11	1	3
org.example.identityservice.service.jwt		91%		100%	1	21	6	78	1	16	0	3
org.example.identityservice.configuration		79%		n/a	4	10	1	20	4	10	0	1
org.example.identityservice.model.entity		70%		n/a	1	4	6	20	1	4	0	2
org.example.identityservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.identityservice.controller		96%		100%	1	20	1	39	1	18	0	3
org.example.identityservice.service.auth		100%		83%	1	9	0	40	0	6	0	1
org.example.identityservice.service.admin		100%		100%	0	9	0	35	0	6	0	1
org.example.identityservice.dto		100%		n/a	0	12	0	14	0	12	0	12
org.example.identityservice.model.enums		100%		n/a	0	2	0	10	0	2	0	2
org.example.identityservice.exception		100%		100%	0	8	0	19	0	7	0	3
org.example.identityservice.service.otp		100%		n/a	0	5	0	13	0	5	0	1
Total	122 of 1,570	92%	2 of 36	94%	13	117	29	337	11	99	2	33

Policy-Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.policyservice.service.implementation		90%		76%	9	40	4	101	4	27	0	2
org.example.policyservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.policyservice.controller		100%		n/a	0	18	0	29	0	18	0	4
org.example.policyservice.exception		100%		100%	0	16	0	31	0	15	0	7
org.example.policyservice.dto		100%		n/a	0	7	0	7	0	7	0	7
org.example.policyservice.model.enums		100%		n/a	0	2	0	9	0	2	0	2
org.example.policyservice.model.entity		100%		n/a	0	4	0	21	0	4	0	2
Total	55 of 971	94%	6 of 28	78%	11	89	7	201	6	75	1	25

Provider-Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.providerservice.service.implementation		86%		87%	9	25	2	49	7	17	0	1
org.example.providerservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.providerservice.model.entity		95%		n/a	1	8	2	29	1	8	0	4
org.example.providerservice.exception		100%		100%	0	18	0	34	0	17	0	8
org.example.providerservice.controller		100%		n/a	0	12	0	16	0	12	0	2
org.example.providerservice.dto		100%		n/a	0	4	0	4	0	4	0	4
org.example.providerservice.model.enums		100%		n/a	0	1	0	3	0	1	0	1
Total	50 of 651	92%	2 of 18	88%	12	70	7	138	10	61	1	21

Create

Jmeter:

- Capstone SHIMS
  - Test Plan
    - Identity Service
      - Admin
      - Common
    - Policy Service
    - Provider Service
    - Claims Service
    - Billing Service
    - View Results Tree
    - 20 users

Summary Report

Name: 20 users

Comments:

Write results to file / Read from file

Filename: [_____] Browse... Log/Display Only: ☐ Errors ☐ Successes [Configure]

Label	# Samples	Average	Min	Max	Std. Dev.	Error % ↑	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Get Users	20	32	7	115	32.99	0.00%	18.8/sec	17.27	6.25	941.5
Login	20	235	105	633	158.45	0.00%	11.9/sec	8.35	2.97	719.5
generate otp	20	15	4	75	15.55	0.00%	12.1/sec	5.01	3.00	424.0
Forgot pass...	20	254	145	686	147.30	0.00%	10.9/sec	8.02	4.87	751.2
Check User	20	26	10	63	15.25	0.00%	11.8/sec	4.59	5.39	399.0
add bank	20	34	11	99	20.12	0.00%	11.6/sec	4.89	5.96	432.0
Get all regist...	20	26	12	47	10.13	0.00%	11.1/sec	26.29	3.78	2417.9
Get all polici...	20	22	6	47	11.28	0.00%	11.0/sec	6.54	4.00	606.5
Get all policy...	20	19	8	53	11.93	0.00%	10.9/sec	6.47	3.97	605.3
check enroll...	20	21	8	47	10.40	0.00%	10.8/sec	1.74	3.94	164.0
Plan count	20	20	7	52	10.94	0.00%	10.8/sec	5.05	3.47	479.0
get all provi...	20	20	10	33	8.28	0.00%	10.6/sec	6.21	3.45	599.4
check plan o...	20	21	10	44	8.64	0.00%	10.6/sec	2.26	4.12	219.0
Check Associ...	20	24	11	45	8.14	0.00%	10.5/sec	2.25	3.48	219.0
get all hospital	20	22	9	57	11.31	0.00%	10.5/sec	15.23	3.33	1483.3
Get associat...	20	19	9	29	5.73	0.00%	10.6/sec	3.79	4.49	365.0
Make a claim	20	49	33	75	9.99	0.00%	10.5/sec	5.24	5.35	509.9
get claims of...	20	29	15	49	8.83	0.00%	10.8/sec	653.71	3.68	61886.4
Track claim	20	19	9	39	8.82	0.00%	11.0/sec	8.14	3.48	757.0
get all claims...	20	31	11	98	23.64	0.00%	11.2/sec	6.58	3.68	604.0

☐ Include group name in label? [Save Table Data] ☑ Save Table Header

Summary Report

Name: 50 users

Comments:

Write results to file / Read from file

Filename: [Browse...] Log/Display Only: ☐ Errors ☐ Successes [Configure]

Label	# Samples	Average	Min	Max	Std. Dev.	Error % ↑	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Get Users	50	65	12	192	45.83	0.00%	44.5/sec	40.91	14.83	941.0
Login	50	435	157	1120	288.88	0.00%	18.9/sec	13.28	4.73	718.3
generate otp	50	89	14	415	81.80	0.00%	15.1/sec	6.26	3.75	424.0
Forgot pass...	50	766	187	2077	484.35	0.00%	13.3/sec	9.73	5.90	752.2
Check User	50	164	23	374	90.74	0.00%	14.2/sec	5.55	6.51	399.0
Get all regist...	50	134	10	284	64.80	0.00%	1.6/sec	3.69	0.53	2417.7
Get all polici...	50	73	7	191	43.01	0.00%	1.6/sec	0.93	0.57	606.0
Get all policy...	50	79	6	219	42.57	0.00%	1.6/sec	0.93	0.57	605.5
check enroll...	50	57	7	149	30.28	0.00%	1.6/sec	0.25	0.57	164.0
Plan count	50	66	6	201	40.59	0.00%	1.6/sec	0.74	0.51	479.0
get all provi...	50	60	7	135	27.20	0.00%	1.6/sec	0.93	0.52	598.5
check plan o...	50	57	7	160	31.51	0.00%	1.6/sec	0.34	0.62	219.0
Check Associ...	50	57	6	137	30.81	0.00%	1.6/sec	0.34	0.53	219.0
get all hospital	50	57	8	118	25.30	0.00%	1.6/sec	2.32	0.51	1481.9
Get associat...	50	54	7	142	32.84	0.00%	1.6/sec	0.57	0.68	365.0
Make a claim	50	132	25	238	45.50	0.00%	1.6/sec	0.80	0.82	508.7
get claims of...	50	96	11	299	49.80	0.00%	1.6/sec	27.23	0.55	17257.7
Track claim	50	65	6	132	24.74	0.00%	1.6/sec	1.20	0.51	757.1
get all claims...	50	82	8	249	50.05	0.00%	1.6/sec	0.96	0.54	604.0
analytics 1	50	72	7	154	38.30	0.00%	1.6/sec	2.04	0.55	1276.8

☐ Include group name in label? [Save Table Data] ☑ Save Table Header

(Note: test script can be found in root folder)

Summary Report

Name: 100 users

Comments:

Write results to file / Read from file

Filename: [Browse...] Log/Display Only: ☐ Errors ☐ Successes [Configure]

Label	# Samples	Average	Min	Max	Std. Dev.	Error % ↑	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Get Users	100	147	11	614	139.73	0.00%	62.8/sec	57.72	20.90	941.6
Login	100	1030	150	2885	656.04	0.00%	22.5/sec	15.78	5.62	718.8
generate otp	100	81	16	209	48.80	0.00%	18.0/sec	7.47	4.47	424.0
Forgot pass...	100	1318	168	2778	629.24	0.00%	17.0/sec	12.51	7.58	752.1
Check User	100	165	15	654	101.35	0.00%	17.6/sec	6.86	8.05	399.0
add bank	100	166	17	471	95.20	0.00%	17.8/sec	7.51	9.14	432.0
Get all regist...	100	67	11	190	45.52	0.00%	17.2/sec	40.62	5.85	2417.2
Get all polici...	100	56	8	218	43.88	0.00%	16.9/sec	9.99	6.12	605.7
Get all policy...	100	67	10	227	48.13	0.00%	16.2/sec	9.57	5.86	605.7
check enroll...	100	63	9	187	46.18	0.00%	16.0/sec	2.56	5.81	164.0
Plan count	100	56	8	179	41.65	0.00%	15.8/sec	7.40	5.08	479.0
get all provi...	100	61	11	161	41.28	0.00%	14.8/sec	8.66	4.81	599.1
check plan o...	100	64	11	180	40.95	0.00%	14.8/sec	3.15	5.73	219.0
Check Associ...	100	62	7	189	44.69	0.00%	14.6/sec	3.13	4.82	219.0
get all hospital	100	65	10	234	47.55	0.00%	14.6/sec	21.08	4.61	1482.0
Get associat...	100	53	7	216	41.86	0.00%	14.6/sec	5.19	6.15	365.0
Make a claim	100	113	40	284	51.02	0.00%	14.3/sec	7.10	7.25	509.9
get claims of...	100	84	17	254	50.01	0.00%	14.3/sec	630.07	4.86	45150.3
Track claim	100	67	9	266	46.27	0.00%	14.2/sec	10.51	4.50	757.0
get all claims...	100	93	25	244	45.84	0.00%	14.1/sec	8.30	4.65	604.0

☐ Include group name in label? [Save Table Data] ☑ Save Table Header

Jenkins:

✓ #4 (Jan 7, 2026, 5:30:35 AM)

Build Artifacts

ApiGateway-0.0.1-SNAPSHOT.jar	46.39 MiB	view
Billing-Service-0.0.1-SNAPSHOT.jar	79.63 MiB	view
Claims-Service-0.0.1-SNAPSHOT.jar	102.17 MiB	view
Config-Server-0.0.1-SNAPSHOT.jar	39.54 MiB	view
EmailService-0.0.1-SNAPSHOT.jar	67.21 MiB	view
Identity-Service-0.0.1-SNAPSHOT.jar	84.57 MiB	view
Policy-Service-0.0.1-SNAPSHOT.jar	101.82 MiB	view
Provider-Service-0.0.1-SNAPSHOT.jar	79.61 MiB	view
Service-Registry-0.0.1-SNAPSHOT.jar	56.86 MiB	view

Started by user Vishnuvaradhan

This run spent:

- 23 ms waiting;
- 1 min 30 sec build duration;
- 1 min 30 sec total from scheduled to completion.

Revision: 94d8ac9c70d5200203c2efd008c8d8f8963522ca
Repository: https://github.com/vi2hnu/Capstone-Insurance-Management-backend.git

- refs/remotes/origin/main

Tests (no failures)

```
ddfd79400a0c   shims-pipeline-providerservice    "java -jar Provider …"   33 seconds ago   Up 1 second              0.0.0.0:8082
>8082/tcp, [::]:8082->8082/tcp                providerservice
0ed87cc16472   shims-pipeline-identityservice    "java -jar Identity-…"   33 seconds ago   Up 1 second              0.0.0.0:8080-
>8080/tcp, [::]:8080->8080/tcp                identityservice
b9e3d5eb57b5   shims-pipeline-billingservice     "java -jar Billing-S…"   33 seconds ago   Up 1 second              0.0.0.0:8084-
>8084/tcp, [::]:8084->8084/tcp                billingservice
26f0710eafd9   mysql:oraclelinux9                "docker-entrypoint.s…"   33 seconds ago   Up 11 seconds            0.0.0.0:3306-
>3306/tcp, [::]:3306->3306/tcp, 33060/tcp     sqldb
52536098c525   mongo:latest                      "docker-entrypoint.s…"   33 seconds ago   Up 11 seconds            0.0.0.0:27017-
>27017/tcp, [::]:27017->27017/tcp             mongo
cb8dc2ec6df2   redis:latest                      "docker-entrypoint.s…"   33 seconds ago   Up 11 seconds            0.0.0.0:6379-
>6379/tcp, [::]:6379->6379/tcp                redis
c74db648a0ee   shims-pipeline-emailservice       "java -jar EmailServ…"   33 seconds ago   Up 1 second              0.0.0.0:8085-
>8085/tcp, [::]:8085->8085/tcp                emailservice
a7c448d8a30a   shims-pipeline-eureka             "java -jar /app/Serv…"   33 seconds ago   Up 11 seconds (healthy)  8080/tcp,
0.0.0.0:8761->8761/tcp, [::]:8761->8761/tcp   eureka
719b1730aa07   apache/kafka:4.1.1                "/__cacert_entrypoin…"   33 seconds ago   Up 11 seconds            0.0.0.0:9092-
>9092/tcp, [::]:9092->9092/tcp                kafkaQueue
4db2e1778f38   shims-pipeline-configserver       "java -jar Config-Se…"   33 seconds ago   Up 33 seconds (healthy)  0.0.0.0:8888-
>8888/tcp, [::]:8888->8888/tcp                configserver
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```