

```
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 27, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.622 s
[INFO] Finished at: 2025-05-11T12:15:33+02:00
[INFO] -----
```

As observed, all 27 tests passed with no errors or build failures. These tests comprise SingletonTest, AlertGeneratorTest, DataStorageTest, AlertDecoratorTest, AlertFactoryTest, AlertStrategyTest.

Jacoco report:

### com.alerts.alert\_types

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
<a href="#">HypoHypoxAlert</a>	<div><div></div></div>	100%	n/a	n/a	0 4	0 8	0 4	0 1
<a href="#">BloodPressureAlert</a>	<div><div></div></div>	100%	n/a	n/a	0 4	0 8	0 4	0 1
<a href="#">BloodOxygenAlert</a>	<div><div></div></div>	100%	n/a	n/a	0 4	0 8	0 4	0 1
<a href="#">ECGAlert</a>	<div><div></div></div>	100%	n/a	n/a	0 4	0 8	0 4	0 1
Total	0 of 84	100%	0 of 0	n/a	0 16	0 32	0 16	0 4

### com.alerts.strategies

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
<a href="#">BloodPressureStrategy</a>	<div><div></div></div>	100%	<div><div></div></div>	88%	4 19	0 32	0 2	0 1
<a href="#">HeartRateStrategy</a>	<div><div></div></div>	100%	<div><div></div></div>	81%	4 13	0 28	0 2	0 1
<a href="#">HypoHypoxStrategy</a>	<div><div></div></div>	100%	<div><div></div></div>	90%	2 13	0 29	0 2	0 1
<a href="#">BloodOxygenStrategy</a>	<div><div></div></div>	100%	<div><div></div></div>	85%	2 9	0 15	0 2	0 1
Total	0 of 615	100%	12 of 92	86%	12 54	0 104	0 8	0 4

### com.alerts.factories


Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
<a href="#">ECGAlertFactory</a>	<div><div></div></div>	100%	n/a	n/a	0 2	0 3	0 2	0 1
<a href="#">BloodOxygenAlertFactory</a>	<div><div></div></div>	100%	n/a	n/a	0 2	0 3	0 2	0 1
<a href="#">BloodPressureAlertFactory</a>	<div><div></div></div>	100%	n/a	n/a	0 2	0 3	0 2	0 1
<a href="#">HypoHypoxAlertFactory</a>	<div><div></div></div>	100%	n/a	n/a	0 2	0 3	0 2	0 1
Total	0 of 48	100%	0 of 0	n/a	0 8	0 12	0 8	0 4

### com.alerts.decorators





Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
<a href="#">RepeatedAlertDecorator</a>	<div><div></div></div>	0%	<div><div></div></div>	0%	3 3	13 13	2 2	1 1
<a href="#">PriorityAlertDecorator</a>	<div><div></div></div>	85%	n/a	n/a	1 4	1 7	1 4	0 1
<a href="#">LoggingAlertDecorator</a>	<div><div></div></div>	100%	n/a	n/a	0 3	0 6	0 3	0 1
<a href="#">AlertDecorator</a>	<div><div></div></div>	100%	n/a	n/a	0 4	0 6	0 4	0 1
Total	38 of 97	60%	2 of 2	0%	4 14	14 32	3 13	1 4

I will ensure to implement a test for the RepeatedAlertDecorator (Check week 5 repo update)

## com.cardio\_generator

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
 <a href="#">HealthDataSimulator</a>	<div><div></div><div></div></div>	58%	<div><div></div><div></div></div>	38%	11	27	48	87	1	13	0	1
Total	162 of 388	58%	16 of 26	38%	11	27	48	87	1	13	0	1

## com.data\_management

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
 <a href="#">FileDataReader</a>	<div><div></div><div></div></div>	0%	<div><div></div><div></div></div>	0%	6	6	20	20	2	2	1	1
 <a href="#">DataStorage</a>	<div><div></div><div></div></div>	50%	<div><div></div><div></div></div>	60%	4	11	14	30	2	6	0	1
 <a href="#">Patient</a>	<div><div></div><div></div></div>	100%	<div><div></div><div></div></div>	100%	0	6	0	13	0	3	0	1
 <a href="#">PatientRecord</a>	<div><div></div><div></div></div>	100%	n/a	n/a	0	5	0	10	0	5	0	1
Total	127 of 279	54%	12 of 24	50%	10	28	34	73	4	16	1	4

I will ensure to implement a test for the FileDataReader (check week 5 repo update)