

```
[INFO] Tests run: 36, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jacoco:0.8.7:report (default-cli) @ cardio_generator ---
[INFO] Loading execution data file /Users/raulparau/Desktop/signal_project/target/jacoco.exec
[INFO] Analyzed bundle 'cardio_generator' with 36 classes
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.009 s
```

All my test reports are running. The coverage of the JUnit tests can be seen in the following picture.

cardio_generator

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.cardio_generator.generators		0 %		0 %	27	27	111	111	18	18	6	6
com.cardio_generator		6 %		7 %	26	29	76	84	13	15	0	1
com.cardio_generator.outputs		1 %		0 %	17	18	59	60	15	16	4	5
com.data_management		50 %		54 %	8	28	34	75	3	17	1	4
com.alerts.Decorator		0 %		0 %	11	11	22	22	10	10	3	3
com.newMainClass		0 %		0 %	4	4	5	5	2	2	1	1
com.alerts.Week3Logic_StrategyPattern		99 %		87 %	10	61	3	140	0	20	0	8
com.alerts		97 %		80 %	2	15	1	40	0	10	0	2
com.alerts.Factory		100 %		n/a	0	11	0	11	0	11	0	6
Total	1.427 of 2.480	42 %	74 of 168	55 %	105	204	311	548	61	119	15	36

All in all the coverage looks solid for the classes I wrote test cases for.

Especially my logic from week 3, which by coincidence already implemented the Strategy design pattern, seems to be correct and working. The following picture illustrates this too.

com.alerts.Week3Logic_StrategyPattern

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
SelfTriggeredAlert		91 %		50 %	3	5	2	9	0	2	0	1
SaturationTrendAlert		98 %		87 %	1	7	1	16	0	3	0	1
BloodPressureTrendAlert		100 %		95 %	1	16	0	35	0	5	0	1
BloodPressureCriticalAlert		100 %		92 %	1	9	0	24	0	2	0	1
HypotensiveHypoxemiaAlert		100 %		93 %	1	11	0	19	0	3	0	1
EGCAAlert		100 %		80 %	2	7	0	20	0	2	0	1
AlertType		100 %		n/a	0	1	0	8	0	1	0	1
BloodSaturationCriticalAlert		100 %		83 %	1	5	0	9	0	2	0	1
Total	4 of 698	99 %	10 of 82	87 %	10	61	3	140	0	20	0	8

Furthermore, the Factory Design pattern work well too, which is captured in the next picture:

com.alerts.Factory

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
ECGAlertFactory		100 %		n/a	0	2	0	2	0	2	0	1
SaturationTrendAlertFactory		100 %		n/a	0	2	0	2	0	2	0	1
BloodPressureTrendAlertFactory		100 %		n/a	0	2	0	2	0	2	0	1
BloodSaturationCriticalAlertFactory		100 %		n/a	0	2	0	2	0	2	0	1
BloodPressureCriticalAlertFactory		100 %		n/a	0	2	0	2	0	2	0	1
AlertFactory		100 %		n/a	0	1	0	1	0	1	0	1
Total	0 of 58	100 %	0 of 0	n/a	0	11	0	11	0	11	0	6

Last week I was disappointed in the Junit tests for the DataStorage class, so I implemented more tests this week. However my test coverage still does not exceed 60 percent, which is caused by the main method in data storage.

DataStorage

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods
main(String[])	<div></div>	0 %	<div></div>	0 %	3	3	13	13	1	1
addPatientData(int, double, String, long)	<div></div>	100 %	<div></div>	100 %	0	2	0	6	0	1
getRecords(int, long, long)	<div></div>	100 %	<div></div>	100 %	0	2	0	4	0	1
DataStorage()	<div></div>	100 %		n/a	0	1	0	3	0	1
getInstance()	<div></div>	100 %	<div></div>	100 %	0	2	0	3	0	1
getAllPatients()	<div></div>	100 %		n/a	0	1	0	1	0	1
Total	51 of 119	57 %	4 of 10	60 %	3	11	13	30	1	6