Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.cardio_generator.generators		0%		0%	44	44	150	150	33	33	11	11
com.cardio_generator		0%		0%	45	45	132	132	22	22	2	2
com.cardio_generator.outputs		0%		0%	19	19	62	62	17	17	5	5
com.data_management		78%		71%	13	45	30	124	6	29	1	5
com.design_pattern.Decorators		45%		26%	11	18	16	35	4	10	0	3
com.design_pattern.Factory		94%		n/a	1	12	2	18	1	12	0	6
com.alerts		97%		100%	1	10	1	31	1	9	0	2
com.design_pattern.strategy		100%		97%	2	61	0	170	0	24	0	6
Total	1,871 of 3,234	42%	92 of 191	51%	136	254	393	722	84	156	19	40

This is the general overview of the Junit test. As you can see there a few folders that where I haven't provided Junit tests, this is because most of these are either generators, or output strategies that will be modified in week 5 . The rest of the pictures will cover each of the folders for which I have provided Junit tests.

com.data_management

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
FileDataReader		0%		0%	6	6	22	22	4	4	1	1
DataStorage		90%		85%	4	19	6	50	1	9	0	1
WebSocketClientAdapter		96%		100%	1	8	2	28	1	7	0	1
Patient		100%		66%	2	7	0	14	0	4	0	1
PatientRecord		100%		n/a	0	5	0	10	0	5	0	1
Total	103 of 487	78%	9 of 32	71%	13	45	30	124	6	29	1	5

Above is the overview of week 4 but also a bit of week5 report coverage , as you can see I tested the readers just to make sure they run and don't create any issues when running with a port that doesn't exist.

com.design_pattern.Decorators

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
RepeatedAlertDecoratorDec		40%		16%	8	10	13	23	2	4	0	1
AlertDecoratorDec		55%		n/a	2	4	2	6	2	4	0	1
PriorityAlertDecoratorDec		82%		66%	1	4	1	6	0	2	0	1
Total	97 of 179	45%	11 of 15	26%	11	18	16	35	4	10	0	3

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Above is the overview of the decorators , where I only tested the method that will return or serve a direct purpose to the final output.

com.alerts

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
AlertGenerator		97%		100%	1	6	1	23	1	5	0	1
Alert		100%		n/a	0	4	0	8	0	4	0	1
Total	3 of 138	97%	0 of 2	100%	1	10	1	31	1	9	0	2

com.design_pattern.Factory

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
AlertFactory		42%		n/a	1	2	2	3	1	2	0	1
BloodPressureAlertFactory		100%		n/a	0	2	0	3	0	2	0	1
HypotensiveHypoxemiaAlertFactory		100%		n/a	0	2	0	3	0	2	0	1
EmergencyButtonFactory		100%		n/a	0	2	0	3	0	2	0	1
HeartRateAlertFactory		100%		n/a	0	2	0	3	0	2	0	1
OxygenSaturationAlertFactory		100%		n/a	0	2	0	3	0	2	0	1
Total	4 of 67	94%	0 of 0	n/a	1	12	2	18	1	12	0	6

Created with JaCoCo 0.8.7

I test indirectly all the factories through testing the strategies, and as you can see below all strategies are tested.

com.design_pattern.strategy

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
BloodPressureStrategy		100%		96%	1	20	0	49	0	5	0	1
OxygenSaturationStrategy		100%		91%	1	11	0	42	0	5	0	1
HypotensiveHypoxemiaStrategy		100%		93%	1	10	0	26	0	2	0	1
HeartRateStrategy		100%		100%	0	10	0	28	0	4	0	1
EmergencyButtonStrategy		100%		100%	0	5	0	13	0	3	0	1
Item		100%		n/a	0	5	0	10	0	5	0	1
Total	0 of 691	100%	3 of 72	95%	3	61	0	168	0	24	0	6

Created with JaCoCo 0.8.7.202105040129

```
[INFO] Results:
[INFO]
[INFO] Tests run: 23, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
```