Week 3 (Method Implementation + Unit tests)

Below is a screenshot of our JaCoCo code coverage report after running all our tests. We only worked on the com.data_management and com.alerts packages, and tested them properly. These packages show about **74%** and **94%** coverage. Other parts of the project, like com.cardio_generator, show no test coverage at all, since we didn't work with those files. Overall, the parts we implemented and tested are well-covered, and the areas that are not covered were not part of our tasks.

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.cardio_generator.generators		0%		0%	24	24	104	104	16	16	5	5
com.cardio_generator		0%		0%	26	26	83	83	13	13	1	1
com.cardio_generator.outputs		0%		0%	18	18	60	60	16	16	5	5
com.data_management		74%		66%	6	25	15	65	2	16	0	4
com.alerts		94%		72%	15	46	3	75	2	19	0	2
com		0%		0%	4	4	5	5	2	2	1	1
Total	1.245 of 1.835	32%	69 of 120	42%	93	143	270	392	51	82	12	18

DataReaderTest (1): 2 total, 2 passed   27 ms

testReadDataStoresCorrectNumberOfRecords()	passed	24 ms
testReadDataParsesCorrectValues()	passed	3 ms

PatientTest: 3 total, 3 passed   18 ms

testGetRecordsInTimeRange()	passed	16 ms
testGetRecordsNoneMatching()	passed	1 ms
testGetRecordsAllMatching()	passed	1 ms

AlertGeneratorTest: 7 total, 7 passed   27 ms

testEvaluateData_BloodSaturationLowAlert()	passed	24 ms
testEvaluateData_ECGAbnormalDataAlert()	passed	
testEvaluateData_RapidSaturationDropAlert()	passed	
testEvaluateData_HypotensiveHypoxemiaAlert()	passed	
testEvaluateData_DecreasingBloodPressureTrendAlert()	passed	
testEvaluateData_BloodPressureCriticalThresholdAlert()	passed	2 ms
testEvaluateData_IncreasingBloodPressureTrendAlert()	passed	1 ms