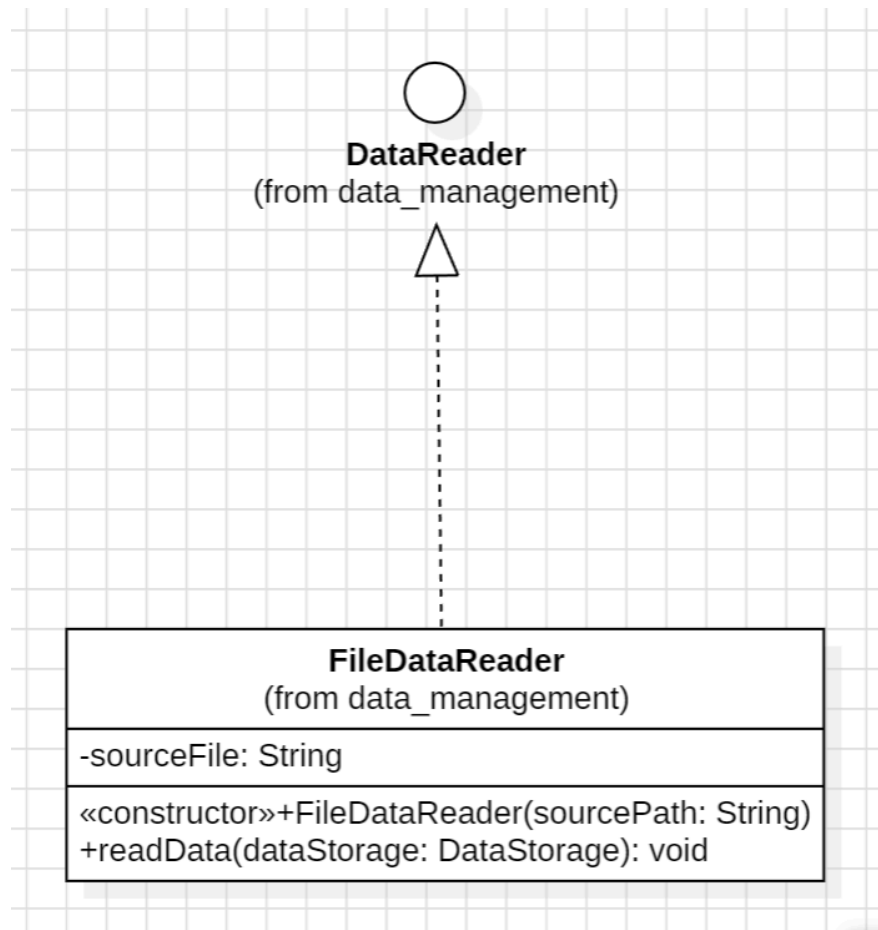


Week 4 tasks

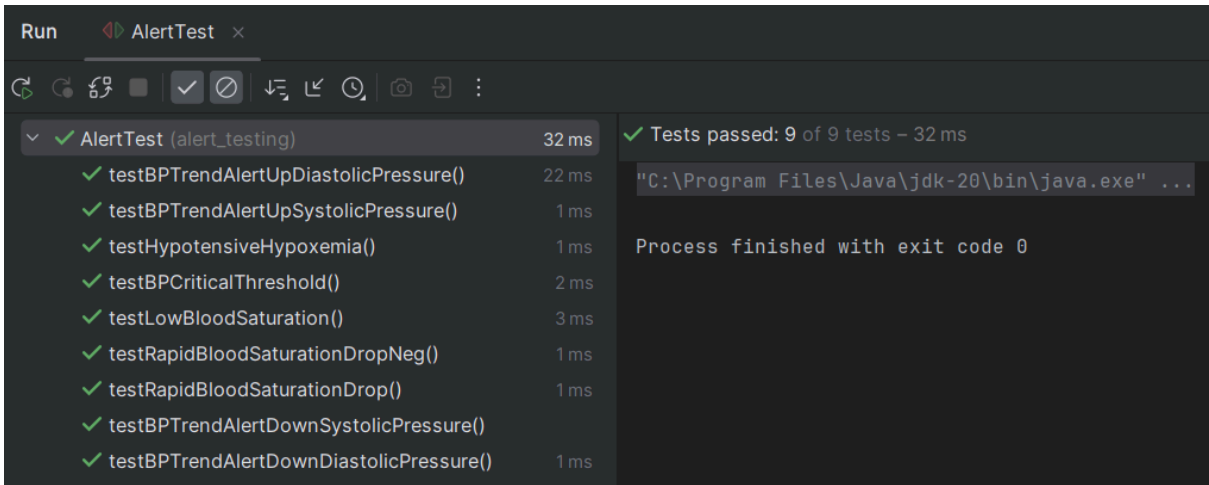
Alert types implemented:

1. ☒ Blood Pressure Data Alerts
2. ☒ Blood Saturation Data Alerts
3. ☒ Combined Alert: Hypotensive Hypoxemia Alert
4. ☐ ECG Data Alerts
5. ☒ Manually triggered Alert

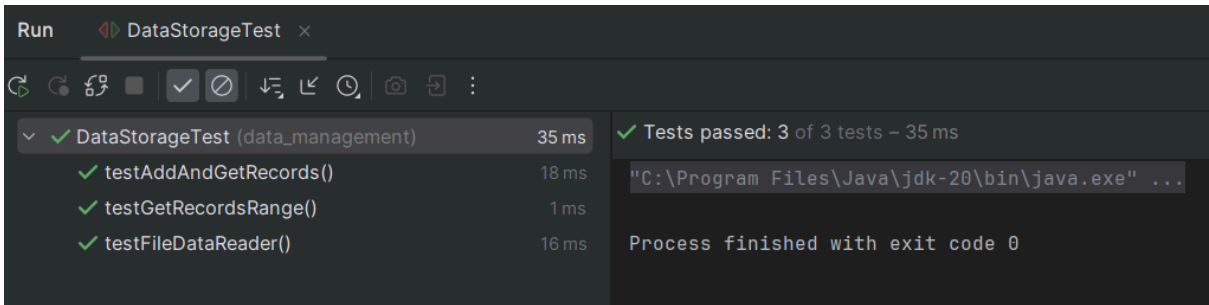


FileDataReader is a realisation of the **DataReader** interface. A path to the file in question is passed through the constructor. Calling `readData` appends the information in the file to the **DataStorage** object.

Alert tests for various alert types were formulated and passed:



DataStorage and reading from file tests:



Jacoco coverage analysis is presented below. As shown, the tests I made so far mostly focus on various alert criteria (BPCriticalThresholdStrategy and the like)

cardio_generator

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
com.cardio_generator.generators	<div><div></div></div>	0%	<div><div></div></div>	0%	24 24	104 104	16 16	5 5
com.cardio_generator	<div><div></div></div>	0%	<div><div></div></div>	0%	28 28	91 91	14 14	1 1
com.cardio_generator.outputs	<div><div></div></div>	0%	<div><div></div></div>	0%	18 18	60 60	16 16	5 5
com.data_management	<div><div></div></div>	78%	<div><div></div></div>	70%	6 28	16 70	2 18	0 4
com.alerts.alert_strategies	<div><div></div></div>	88%	<div><div></div></div>	61%	20 45	9 92	0 15	0 5
com.alerts	<div><div></div></div>	0%	<div><div></div></div>	0%	6 6	15 15	4 4	1 1
com.alerts.alert_types	<div><div></div></div>	59%		n/a	10 17	11 25	10 17	4 8
com.alerts.alert_factories	<div><div></div></div>	100%		n/a	0 6	0 6	0 6	0 3
Total	1,359 of 2,118	35%	79 of 130	39%	112 172	306 463	62 106	16 32