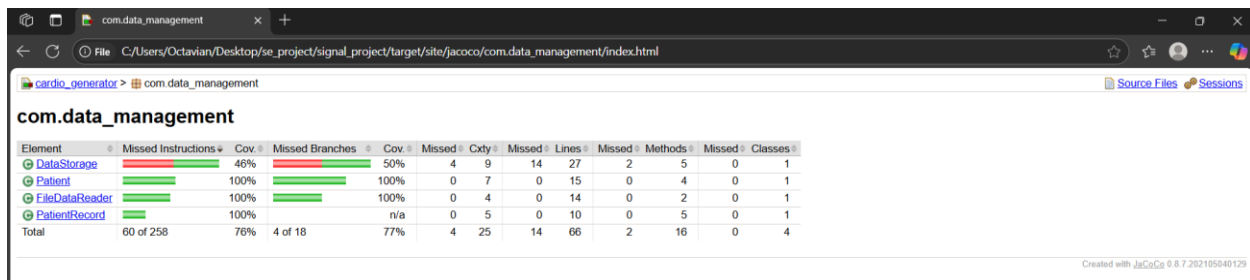
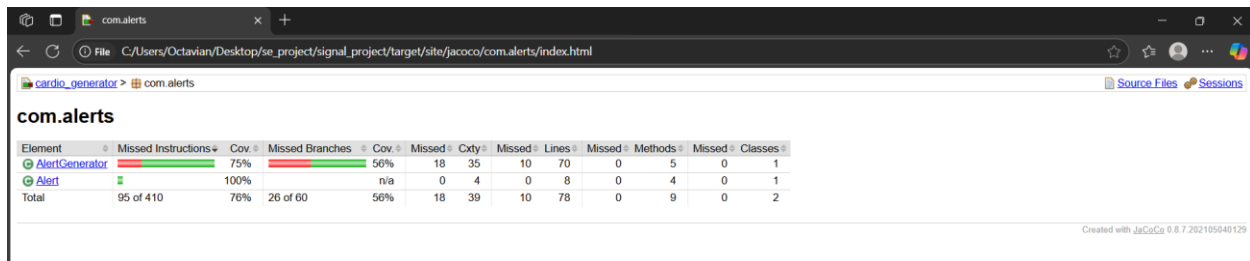
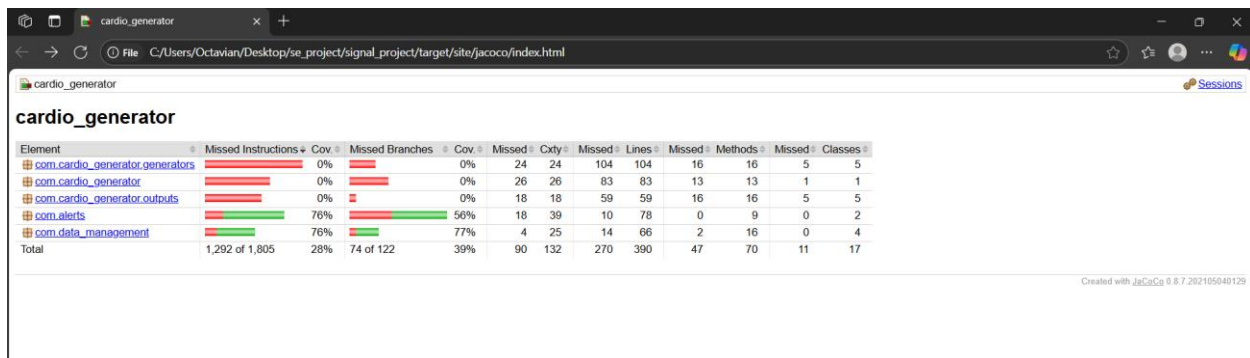


JUnit Tests + Code Coverage using JaCoCo

Down below, you can find screenshots that show our JaCoCo code coverage report after implementing all our tests. We only made JUnit test cases for the `com.data_management` and the `com.alerts` packages. The report shows a coverage of 76% for both. The other parts of the project, such as `com.cardio_generator.outputs`, show no coverage at all, since they were not part of our tasks, thus we did not work with them. Furthermore, we have a 100% coverage for the `Alert`, `Patient`, `FileDataReader` and `PatientRecord` classes, a 46% coverage for the `DataStorage` class, and 75% for the `AlertGenerator`, which shows that our code is well-covered.



File Edit Selection View Go Run Terminal Help

signal_project

TESTING

Filter (e.g. text, exclude, @tag)

15/15 1.4s

- cardio_generator 235ms
- alerts 52ms
- AlertGeneratorTest 52ms
- data_management 183ms
 - DataReaderTest 138ms
 - DataStorageTest 4.0ms
 - PatientTest 41ms

```
src > test > java > alerts > J AlertGeneratorTest.java > J AlertGeneratorTest > J InMemoryDataStorage
16 class AlertGeneratorTest {
105
106 static class InMemoryDataStorage extends DataStorage {
107     private final List<PatientRecord> records = new ArrayList<>();
108
109     public void addPatientData(int patientId,
110                               double measurementValue,
111                               String recordType,
112                               long timestamp) {
113         records.add(new PatientRecord(
114             patientId, measurementValue, recordType, timestamp));
115     }
116
117     @Override
118     public List<PatientRecord> getRecords(int patientId,
119                                         long startTime,
120                                         long endTime) {
121         List<PatientRecord> result = new ArrayList<>();
122         for (PatientRecord r : records) {
123             if (r.getPatientId() == patientId
124                 && r.getTimestamp() >= startTime
125                 && r.getTimestamp() <= endTime) {
126                 result.add(r);
127             }
128         }
129         return result;
130     }
131 }
132
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL TEST RESULTS PORTS

```
ΣTESTE 18, testReadDataWithNonExistentFile(data_management.DataReaderTest)
ΣTESTS 19, testReadDataParsesCorrectValues(data_management.DataReaderTest)
ΣTESTE 19, testReadDataParsesCorrectValues(data_management.DataReaderTest)
ΣRUNTIME313
```

Test Runner for Java

- testExactBoundaryMatching() \$symbol-class PatientTe...
- testGetPatientId() \$symbol-class PatientTest + \$symbol...
- testGetRecordsAllMatching() \$symbol-class PatientTes...
- testGetRecordsInRange() \$symbol-class PatientT...
- testGetRecordsNoneMatching() \$symbol-class Patien...
- testInvalidParameter() \$symbol-class PatientTest + \$s...
- testLargeTimeRange() \$symbol-class PatientTest + \$sy...
- testOffByOneTimestamp() \$symbol-class PatientTest + ...

master* 0.2.3 mvn-package: On Java: Ready Duo Ln 130, Col 6 Spaces: 4 UTF-8 CRLF {} Java