

Week4 Unit Test Verifications for Design Patterns Implementations

1. Factory Method Pattern

AlertFactoryTest: 3 total, 3 passed

28 ms

| | | |
|---------------------------------|--------|-------|
| testBloodOxygenAlertFactory() | passed | 26 ms |
| testECGAlertFactory() | passed | 1 ms |
| testBloodPressureAlertFactory() | passed | 1 ms |

2. Strategy Pattern

AlertStrategyTest: 3 total, 3 passed

30 ms

| | | |
|--------------------------------|--------|-------|
| testOxygenSaturationStrategy() | passed | 26 ms |
| testHeartRateStrategy() | passed | 2 ms |
| testBloodPressureStrategy() | passed | 2 ms |

3. Decorator Pattern

RepeatedAlertDecoratorTest:
2 total, 2 passed

2.45 s

| | | |
|--------------------------------|--------|--------|
| testCheckConditionRepeatedly() | passed | 2.44 s |
| testGetMessage() | passed | 3 ms |

PriorityAlertDecoratorTest:
2 total, 2 passed

433 ms

| | | |
|------------------------|--------|--------|
| testSetPriorityIndex() | passed | 430 ms |
| testGetMessage() | passed | 3 ms |

4. Singleton Pattern

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|--|--------|-------|
| DataStorageTest: 3 total, 3 passed | | 25 ms |
| testAddAndGetRecords() | passed | 23 ms |
| testSingletonInstance() | passed | 1 ms |
| testGetAllPatients() | passed | 1 ms |
| HealthDataSimulatorSingletonTest: 1 total, 1 passed | | 15 ms |
| testSingletonInstance() | passed | 15 ms |