JUNIT-MOCKITO-LOGGING

Done by Ravi Theja Kolluru
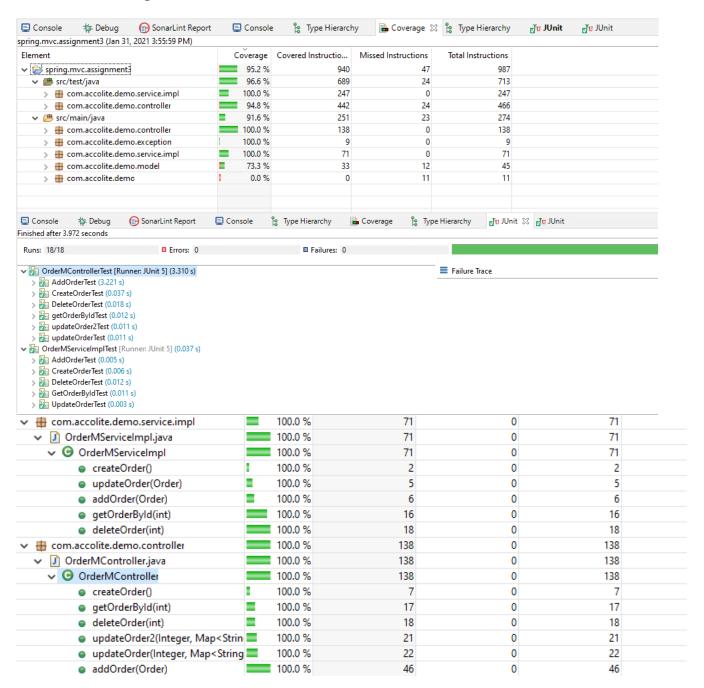
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Assignment

Use Spring MVC or any Spring Boot application, add more validations to it.

1. Write Junit test cases for each and every use case with 100% coverage

2. Coverage screenshot has to be attached along with assignment

3. Each test case should contain at least one assert statement

4. No real time calls should happen, all calls should be completely mocked

5. Add appropriate logs using Logger wherever applicable, possibly use all levels of logging

SCREENSHOTS

Order Controller and Service Implementations contain the functionalities, and has 100% coverage.

Console	Debug	SonarLint Report	Console	Type Hierarchy	Coverage ⊠	Type Hierarchy	JUnit	JUnit

spring.mvc.assignment3 (Jan 31, 2021 3:55:59 PM)

Element	Coverage	Covered Instructio...	Missed Instructions	Total Instructions
∨ 🗁 spring.mvc.assignment3	95.2 %	940	47	987
∨ 🎝 src/test/java	96.6 %	689	24	713
> ⊞ com.accolite.demo.service.impl	100.0 %	247	0	247
> ⊞ com.accolite.demo.controller	94.8 %	442	24	466
∨ 🎝 src/main/java	91.6 %	251	23	274
> ⊞ com.accolite.demo.controller	100.0 %	138	0	138
> ⊞ com.accolite.demo.exception	100.0 %	9	0	9
> ⊞ com.accolite.demo.service.impl	100.0 %	71	0	71
> ⊞ com.accolite.demo.model	73.3 %	33	12	45
> ⊞ com.accolite.demo	0.0 %	0	11	11

Console	Debug	SonarLint Report	Console	Type Hierarchy	Coverage	Type Hierarchy	JUnit ⊠	JUnit

Finished after 3.972 seconds

Runs: 18/18	⊠ Errors: 0	⊠ Failures: 0

∨ 🔡 OrderMControllerTest [Runner: JUnit 5] (3.310 s)   ≡ Failure Trace
  > 🔡 AddOrderTest (3.221 s)
  > 🔡 CreateOrderTest (0.037 s)
  > 🔡 DeleteOrderTest (0.018 s)
  > 🔡 getOrderByIdTest (0.012 s)
  > 🔡 updateOrder2Test (0.011 s)
  > 🔡 updateOrderTest (0.011 s)
∨ 🔡 OrderMServiceImplTest [Runner: JUnit 5] (0.037 s)
  > 🔡 AddOrderTest (0.005 s)
  > 🔡 CreateOrderTest (0.006 s)
  > 🔡 DeleteOrderTest (0.012 s)
  > 🔡 GetOrderByIdTest (0.011 s)
  > 🔡 UpdateOrderTest (0.003 s)

	Coverage	Covered	Missed	Total
∨ ⊞ com.accolite.demo.service.impl	100.0 %	71	0	71
∨ 🗾 OrderMServiceImpl.java	100.0 %	71	0	71
∨ Ⓖ OrderMServiceImpl	100.0 %	71	0	71
● createOrder()	100.0 %	2	0	2
● updateOrder(Order)	100.0 %	5	0	5
● addOrder(Order)	100.0 %	6	0	6
● getOrderById(int)	100.0 %	16	0	16
● deleteOrder(int)	100.0 %	18	0	18
∨ ⊞ com.accolite.demo.controller	100.0 %	138	0	138
∨ 🗾 OrderMController.java	100.0 %	138	0	138
∨ Ⓖ OrderMController	100.0 %	138	0	138
● createOrder()	100.0 %	7	0	7
● getOrderById(int)	100.0 %	17	0	17
● deleteOrder(int)	100.0 %	18	0	18
● updateOrder2(Integer, Map<Strin	100.0 %	21	0	21
● updateOrder(Integer, Map<String	100.0 %	22	0	22
● addOrder(Order)	100.0 %	46	0	46

Used Logs in Order Controller file.

```java
public ResponseEntity<Order> addOrder(@RequestBody @Validated Order order)throws Exception
{
    log.info("Order -> {}",order);
if(order != null) {
    log.debug("order is not null {}", order);
    if(order.getId()==0) {
        log.error("Exception Id can't be zero");
         throw new OrderException("Id can't be zero");
    }
    if (!StringUtils.isNumeric(order.getPhone())) {
        throw new Exception("Phone number isn't a number");
     }
    Order order2 = orderService.addOrder(order);
    return ResponseEntity.ok(order2);
    }
else {
    log.error("Feilds can't be null");
     throw new Exception("Feilds can't be null");
```

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