

Junit, Mockito, Logging Assignment

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Tasks:

- Use Spring MVC or any Spring Boot application, add more validations to it.
- Write Junit test cases for each and every use case with 100% coverage
- Coverage screenshot has to be attached along with assignment
- Each test case should contain at least one assert statement
- No real time calls should happen, all calls should be completely mocked
- Add appropriate logs using Logger wherever applicable, possibly use all levels of logging

Logging:

```
2021-01-31 14:12:23.187 INFO 13972 --- [nio-8080-exec-1] c.e.d.s.serviceImpl.OrderServicesImpl : Order created successfully!
2021-01-31 14:12:38.892 INFO 13972 --- [nio-8080-exec-2] c.e.d.s.serviceImpl.OrderServicesImpl : Item added successfully to order!
2021-01-31 14:13:08.049 INFO 13972 --- [nio-8080-exec-3] c.e.d.s.serviceImpl.OrderServicesImpl : Item deleted!!
2021-01-31 14:13:08.158 INFO 13972 --- [nio-8080-exec-5] c.e.d.s.serviceImpl.OrderServicesImpl : Item added successfully to order!
2021-01-31 14:13:16.160 INFO 13972 --- [nio-8080-exec-10] c.e.d.s.serviceImpl.OrderServicesImpl : Item updated
```

Testing:

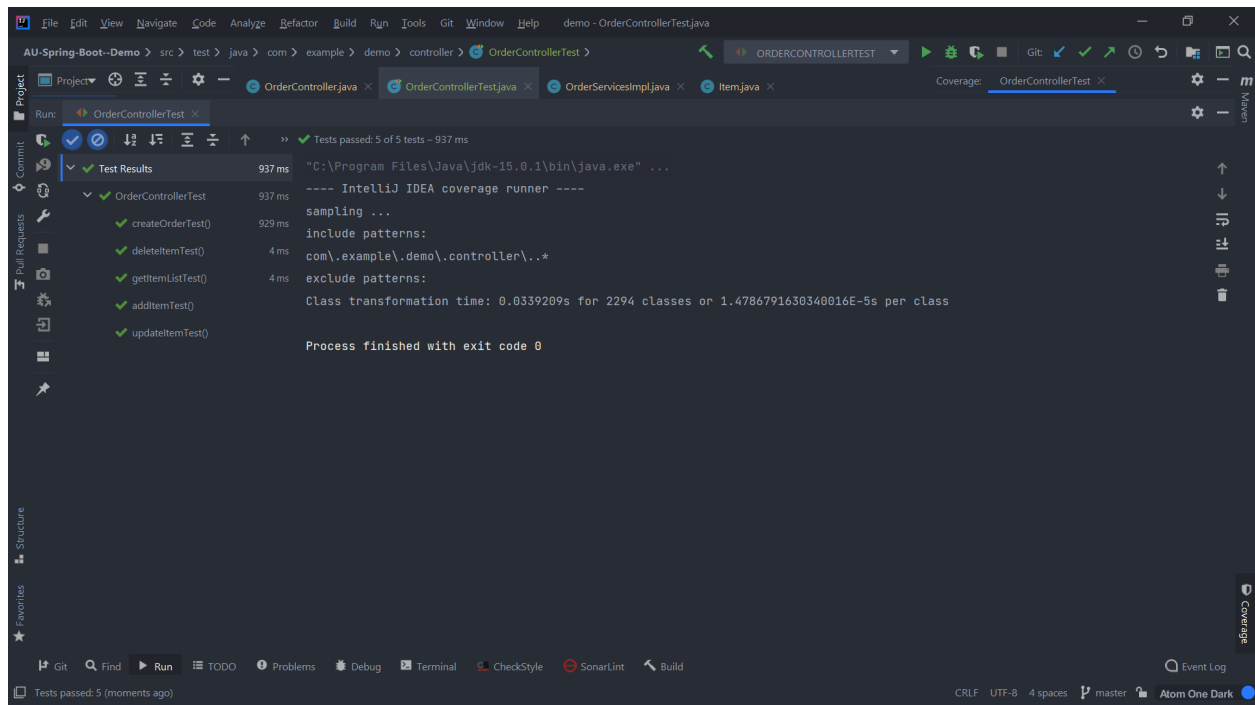
- Code coverage without 100% coverage

```
@Autowired
OrderService orderService;

@PostMapping("/create")
public ResponseEntity<String> createOrder(@RequestBody Order order) {
    String response = orderService.createOrder(order);
    if(response.contains("Order Successfully Created!"))
        return new ResponseEntity<>(response, HttpStatus.CREATED);
    return new ResponseEntity<>(response, HttpStatus.CONFLICT);
}

@PostMapping("/addItem/{orderId}")
public ResponseEntity<String> addItem(@RequestBody Item item, @PathVariable("orderId")
String orderId) {
    String response = orderService.addItemIntoOrder(item, orderId);
    if(response.contains("Item Added Successfully"))
        return ResponseEntity.ok(response);
    else if(response.contains("Order Not Found !!"))
        return new ResponseEntity<>(response, HttpStatus.CONFLICT);
    return new ResponseEntity<>(response, HttpStatus.NOT_FOUND);
}
```

- Junit test case passes:



- Code coverage with 100% line coverage

