Test Automation Mentoring Program: Advanced

UNIT TESTING. HOME TASK

Tech stack: Java

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INTRODUCTION

You will be working with already implemented Online Store application.

The scope of this task is to implement unit tests as well as to work with Mockito library.

MARKS

Points	Mark	Description
1	0.5	Unsatisfactory
2	1	Unsatisfactory
3	1.5	Unsatisfactory
4	2	Satisfactorily
5	2.5	Satisfactorily
6	3	Satisfactorily
7	3.5	Good
8	4	Good
9	4.5	Excellent
10	5	Excellent

Home task is DONE if more than (>=) 4 points received.
Mentor can take away points if Mentee's code quality does not meet his/her requirements.

DEADLINE

It's expected that Mentee completes a task in 2 weeks. The deadline can be adjusted in case of:

1. Vacation
2. Illness
3. Business trip
4. Exceptional case

Before adjusting the deadline please notify and confirm with Coordinator about changes.

PRECONDITION

1. Mentee imported the Online Store application (attached)

TASKS

1. UNIT TESTS

Complexity	Points	Necessity
Basic	5	Task is Mandatory

TASK

Implement unit tests to cover requirements to the imported application:

1. User can add products to the shopping cart
2. User can remove products from the shopping cart
3. User can get the total price of the shopping cart

DEFINITION OF DONE

You have at least 5 unit tests covering the application requirements.

2. MOCKING

Complexity	Points	Necessity
Basic	5	Task is Mandatory

TASK

Using Mockito library Implement a unit test to verify OrderService class with its dependency on the DiscountUtility interface. Use @Mock, @InjectMocks annotations. Test scenario:

1. Verify that for a user named John Smith whose date of birth is "1990/10/10", the amount of the provided discount is equal to 3.
2. Verify that the mocked object is called only once.
3. Verify that there are no other interactions with the mocked object.

DEFINITION OF DONE

A unit test with mocking dependency is created.

Ver.	Description of Change	Author	Date
1.0	Initial Version	Volha Barysava	June-2020