Technology Assessment- SpringBoot

# Exercise 1

* Low Level Design
* Software Development Practices
* Hands-on Programming

## The Retail Store Discounts

**Time: 45 minutes**

On a retail website, the following discounts apply:

1. If the user is an employee of the store, he gets a 30% discount
2. If the user is an affiliate of the store, he gets a 10% discount
3. If the user has been a customer for over 2 years, he gets a 5% discount.
4. For every $100 on the bill, there would be a $ 5 discount (e.g. for $ 990, you get $ 45 as a discount).
5. The percentage based discounts do not apply on groceries.
6. A user can get only one of the percentage based discounts on a bill.

Write a **Spring Boot Java** application with test cases, which exposes an API such that given a bill, it finds the net payable amount. Please note the stress is on object oriented approach and test coverage. User interface is not required, only an API exposed. What we care about:

* object oriented programming approach, provide a high level UML class diagram of all the key classes in your solution. This can either be on paper or using a CASE tool
* unit test and code coverage
* code to be generic and simple
* leverage today's best coding practices
* clear README.md that explains how the code and the test can be run and how the coverage reports can be generated
* state what you will use to document your API, with an example sample request and response

Create a GitHub repository, ensure the name is generic and doesn’t have any company names. Commit your code to the GitHub repository and share the link with us.

## Follow up Discussion

After completing the exercise please send an email to the recruiter who sent you the tests with the GitHub link. We will then schedule a follow-up discussion to discuss the key decisions, assumptions and rationale for your implementation.