**Problem Statement : Inventory Management System**

**Duration: 4 hrs**

# Instructions

1. Please make sure that you are submitting quality code case study solution.(check with SonlarLint/Checkstyle)
2. Implement the code using best design standards.
3. Do not use System out statements for logging. Use appropriate logging methods for logging statements/variable/return values.
4. Use maven to build the project and create WAR file. Include required dependencies in POM.xml
5. Implement the code using REST API.
6. Write web service which takes input and return required details from database.
7. Associate need to upload /share War file.
8. Use git for code submission

**Software Requirements**

|  |  |
| --- | --- |
| Tools/APIs | JDK 1.8, SpringtoolsSuite  Spring Boot and Spring DataJPA  MySQL 8  REST WebServices  Maven 3.x |
| Server | Tomcat8/Embedded Tomcat container |

**Smart Shop Application:**

**Product :**

**productId,**

**Name,**

**Category,**

**quantity,**

**unitPrice,**

**totalPrice,**

**rating.**

**Authentication module can be implemented (Optional)**

1.The objective of this requirement is to capture the personal details of the user.

2.The objective of this requirement is to authenticate the user credentials

**Mandatory Requirements:**

3. Ability of the system to display the current stock products .

4. Ability of the system to add/modify the stock inventory of the Shop.

5. User able to click on search link based on productname, category name .

6.User able to delete product if rating is less than 2 rating<2

7.Update inventory to calculate totalPrice =unitPrice\*quantity.

SpringBoot with application to perform CRUD operation with Rest Controller and use Swagger to test endpoints.

In case, if resource is not Found use **“ResourceNotFound Exception”**. Use Controller Advice to handle exception.

->Use Chrome with Postman to test all Http methods (or)

->Use Swagger to test all service methods