Client is implementing “**Inventry Management System**” client server application with backend Mysql/Oracle database to perform below operations.

1.Assume Product table exist with following sample data.

Productid,name,mDate,useBeforemonths,eDate,price

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| productID | Name | ManufacturingDate | useBeforeMonths | ExpDate | Price |
| 101 | softdrink | 20/12/2022 | 3 | null | 60 |
| 102 | readymixchat | 20/09/2022 | 1 | null | 50 |
| 103 | cream | 20/11/2022 | 2 | null | 300 |
| 104 | Ghee | 20/10/2022 | 4 | null | 500 |
|  |  |  |  |  |  |

2.Perform following operations to accept new product from client using HTML page and persist in database passing values through controller,service and dao.

* addProduct(Product p)

3.Perform update product operation so that for all products in table should be updated Expiry date with adition of 2 columns ,Manyfacturingdate + usebefore months

* updateProduct(ProductList plist) -> expDate should be calculated

4.Perform delete operation so that all expiry products should be deleted.

* deleteProduct(ProductList plist) ->all expiry products need to be deleted

5.Perform read operation to generate a report with all existing products in the order of expiry date

* List<Product> listallProducts()

6.Junit test cases need to be implemented

7.Streams and lambda can be implemented (optional)

Classes need to be implemented:

com.ims.model -> Product.java

com.ims.exception: ProductListEmptyException

com.ims.test: ProductServiceImplTest,ProductDAOImplTest

com.ims.util: DbConn.java

com.ims.service : ProductService, ProductServiceImpl

com.ims.dao :ProductDao,ProductDaoImpl

com.ims.validator : ProductValidator

com.ims.controller :ProductController/ ( servlet/jsp an one can be implemented)

Use HTML files for UI layer