**Spring Hibernate JMS Coding Assessment**

**Duration: 120 minutes**

Retail Management Portal

Admin Module – All admin related operations related to adding /maintaining a new Grocery, adding/maintaining a new product, updating product prices will be part of this module

### System Usage

1. Search for Grocery / Product
2. Product Inventory Management which involves
   1. Add /Delete Product

### Project Retail Management System – Functional Requirements

### Search for Products

* User can search for Products.

### Admin Module

### Add Products

* Admin should be able to Add Product on the Portal and can provide form for collecting other necessary information. Product can have attributes like Category, Type, Expiry Date…..just to name a few.

### Delete Products

* Admin should be able to delete the product by product Id. The System should send him notifications on the products whose expiry date is in the current week. The Admin should be able to view the products whose expiry date falls in the current and next week.

### Product Search

* Any user irrespective of whether he is a guest user or a registered user should be able to search for the Products.
* Update the position of the orders placed by the customers, as the shipment travels from one location to another. This was done by continuously sending messages to JMS Queue.

**Evaluation Criteria**

* Solution should be functional.
* Solution should be extensible and maintainable.
* Usage of Spring, JMS and JPA concepts.
* Coding best practices.
* Naming conventions.