**Capstone Project**

**Departmental Store Online Billing and Stock Application**

“Daily Fresh” is a company into retail business for more than 20 years. The company has presence in various locations across many cities in India. The company procures stationary items, grocery items, vegetables and all other daily needs from their suppliers. The company has huge number of customers. The company is popular for their best service to customers. The company also maintains good amount of stock of all the items.

The company has decided to develop an online billing and stock management software to enhance and extend their business. The online software should enable the company to maintain following information.

1. The details of all the suppliers
2. The details of their customers
3. The details of all the items category wise
4. The stock information of the all items location wise, city wise.
5. The bill details in all locations.

The software should have a feature to allocate the reward points to the customer, whenever they buy items from the store. The software should also update the stock details whenever items are procured and distributed to various locations. The stock should be updated whenever a bill is generated for customers. The software should also enable the customers to redeem the reward points and get appropriate discount on the bill amount.

The software should help

1. To View all the customer details
2. To View the customer details location wise and city wise.
3. To view the stock level of all items location wise.
4. To update the stock when items are distributed to various locations.
5. To generate the bill with reward points.
6. To View the bill history of customers.

Details to be maintained about customers:

1. Customer id (auto generated)
2. Customer Name
3. Customer Address
4. Customer Email
5. Customer Phone number

Details to be maintained about Item:

1. Item Id (auto generated)
2. Item Name
3. Category
4. Purchase price
5. Selling price

Details about the stock:

1. Item id
2. Location id
3. City id
4. Available quantity

Details of Stores:

1. Store Id
2. Store Address
3. Store In Charge (Name and Phone number)
4. City Id

Details of the Bill:

1. Bill number (auto generated)
2. Bill Date
3. Customer
4. Bill Items
5. Bill Amount
6. Reward points

Details to be maintained about suppliers:

1. Supplier id (Auto generated)
2. Supplier name
3. Supplier City
4. Supplier Contact details (Contact Person name, Phone number and email id)

Details of Order Details:

1. Order id (Auto generated)
2. Order date
3. Order Items (Name, Quantity,Price)
4. Delivery location
5. Order Amount

Technologies and tools to be used:

1. Java 8
2. MySQL Database
3. Spring Boot Micro services
4. Spring Data JPA
5. Spring Web MVC
6. Postman