**Features**

1. User Login
2. User SignUp
3. Forgot Password
4. Update User Profile
5. Add Product
6. Delete/Remove Product
7. Search Product
8. Select Product
9. Add Product to Cart
10. Remove Products from Cart
11. Create Order
12. Cancel Order
13. Track Order
14. Wishlist: Add Product
15. Wishlist: Remove Product
16. Add Product to Cart from Wishlist
17. Email Notifications to users

**Technology Stack:**

Version Control: Git

UI: BootStrap

Language: Java/J2EE

Framework: Spring MVC

ORM: Hibernate

DB: Oracle/ Mongo DB

BUILD: Gradle

Unit Testing: JUnit/Mockito

CI : Jenkins

Code Quality: PMD, Findbugs, Checkstyles, Sonar

Binary Repository: Artifactory / Nexus

# User Module

## Admin User

* Admin User should be able to administer the application with full permissions.

## User Registration/Sign Up

* Guest User/ New User should have the option to register in the application.
* Validate the fields provided by the user.
* Upon a failure during validation, prompt the user to enter the correct data.
* Upon Successful Validation, User profile should be created and an Email Notification should be sent to the user.

## User Login

* User should provide username and password to login into application.
* If valid details, take the user to Home Page.
* If Invalid credentials, redirect to the login page with error message.

## Forgot Password

* User should be provided a link like “Forgot Password?”
* On providing the registered email address, password should be provided to the user.

## Update User Profile

* To update profile, user should login to the application first.
* User should be able to update the information and save the changes successfully.
* {TRY: User should be able to upload/Remove their profile picture}

# Products Module

## Add Products

* Provide a form to enter the details of a product.
* Also image of the product should also be stored.

## Remove / Delete Product

* Any product available in this application can be deleted when necessary.

## Search product

* Search for available product using different criteria and the product should be displayed to the user along with its details.

## Select Product

* User should be able to select products from the available products.
* **{Elaborate More on this feature}**

# Cart / Order Module

## Add Product to Cart

* User can select any product and can add it to cart.
* User can add the product to cart **IFF** logged in.
* Try to provide as many ways as to add a product to cart.

## Remove Product from Cart

* User should login to the application to remove product from cart.
* Products added to the cart can be removed from the cart.

## Order – Create Order

* To order any product, it should be added to cart first.
* Products available in the cart should only be available for creating an order.

## Order - Cancel Order

* User should be able to cancel the order.

## Track Order

* {**TO BE ADDED**}

# Wishlist Module

## Wishlist – Add product to wishlist

* User should be able to add a product to their wishlist.
* Try to provide as many ways as to add a product to wishlist.

## Wishlist – Remove product from wishlist

* User should be able to remove an added product from their wishlist.

## Wishlist - Add Product to Cart

* User should be able to add a product to cart from his wishlist.