Project

Abstract

building a E-Commerce website using modern Java Full Stack technologies

# Short Summary

This is a full stack development project, in which the coding done for both front-end and backend has been done. A considerable amount of work is done developing the front-end code using HTML, CSS, JavaScript, JQuery, Thymeleaf, bootstrap etc. Thymeleaf is the latest Java template engine, which is supposed to replace previous JSP way (JSP is discontinued but is still being used out there) and it is the official template engine backed by Spring Framework, though it's not the only one you can choose. The backend side id developed using latest Spring technologies - Spring Boot, Spring Security, Spring Data and etc. Then, we have MySQL as database. MySQL is powerful and free to use relational database and serves as a good candidate in plenty of commercial apps out there.

# Technology Stack

1. HTML
2. CSS
3. Bootstrap
4. JavaScript
5. JQuery
6. Thymeleaf
7. Spring Security
8. Spring Data(Crud Repository)
9. Spring Boot
10. Hibernate
11. MySQL

Application Key Functionalities

1. User Signup and Login
2. User profile management
3. Product Management
4. Shopping Cart
5. Order checkout and order history - User Signup and Login
6. Automatic email confirmation

Architecture

From the architecture perspective, the system is divided into two parts - Bookstore and AdminPortal. Bookstore is the front-end website that customer will be using for submitting orders while AdminPortal is used for administration purpose. Presumably they will be running on two servers. The good side is the two apps are decoupled in some way so that they can be managed separately.







