MAKE AN E-COMMERCE WEBSITE FOR SPORTY SHOES PROJECT

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Project Objective :

Sporty Shoes e-commerce website for managing products in portal and selling shoes to customers online. In this document you can see the prototype of product operations for both page Admin and Customer interaction.

Project Background:

Sporty Shoes is a company that manufactures and sells sports shoes. They have a walk-in store, and now, they wish to launch their e-commerce portal sportyshoes.com.

I develop a prototype of the application. It will be then presented to the relevant stakeholders for budget approval. Your manager has set up a meeting where you're asked to do the following:

- Presenting the specification document which has the product's capabilities, appearance, and user interactions
- Setting up Git and GitHub account to store and track your enhancements of the prototype
- Explaining the Java concepts used in the project
- Discussing the generic features of the product:
- There will be an admin to manage the website. An administrator login will be required to access the admin page.

JAVA (Core)Technology Used:

a. @Controller: for using class as controller class

b. @Service: To indicate class as Service

c. @Repository: To indicate class/interface as Repository to contact with Database.

d. @Entity: To indicate class as table in Database.

e. @Autowired: to auto connect between Spring Beans, Services, Repositories.

f. @PostMapping: to indicate URL links with Servlet post method

g. @GetMapping: to indicate URL links with Get method in servlet.

h. @RequestParam and @RequestBody: Get values from webpage.

i. javax.servlet.http.HttpSession: To manage Sessions with Http protocol

. j. org.springframework.ui.Model: to send data to view

k. java.sql.SQLException: To manage Database exceptions

l. Java.util.regex: to check string patterns like email..

JAVA (Core)Technology Used:

m. JpaRepository: to get methods for CRUD operations.

n. jpa.repository.Query (@Query): To write native queries for custom methods for CRUD operations.

o. ThymeLeaf Template tags in HTML.

p. @SpringBootApplication: To initialize spring boot.

Technology Used:

1. Eclipse IDE
2. HTML
3. MySQL
4. Java Concepts

a. Spring Boot DevTools.
b. Spring Web
c. Spring Data JPA
d. ThymeLeaf

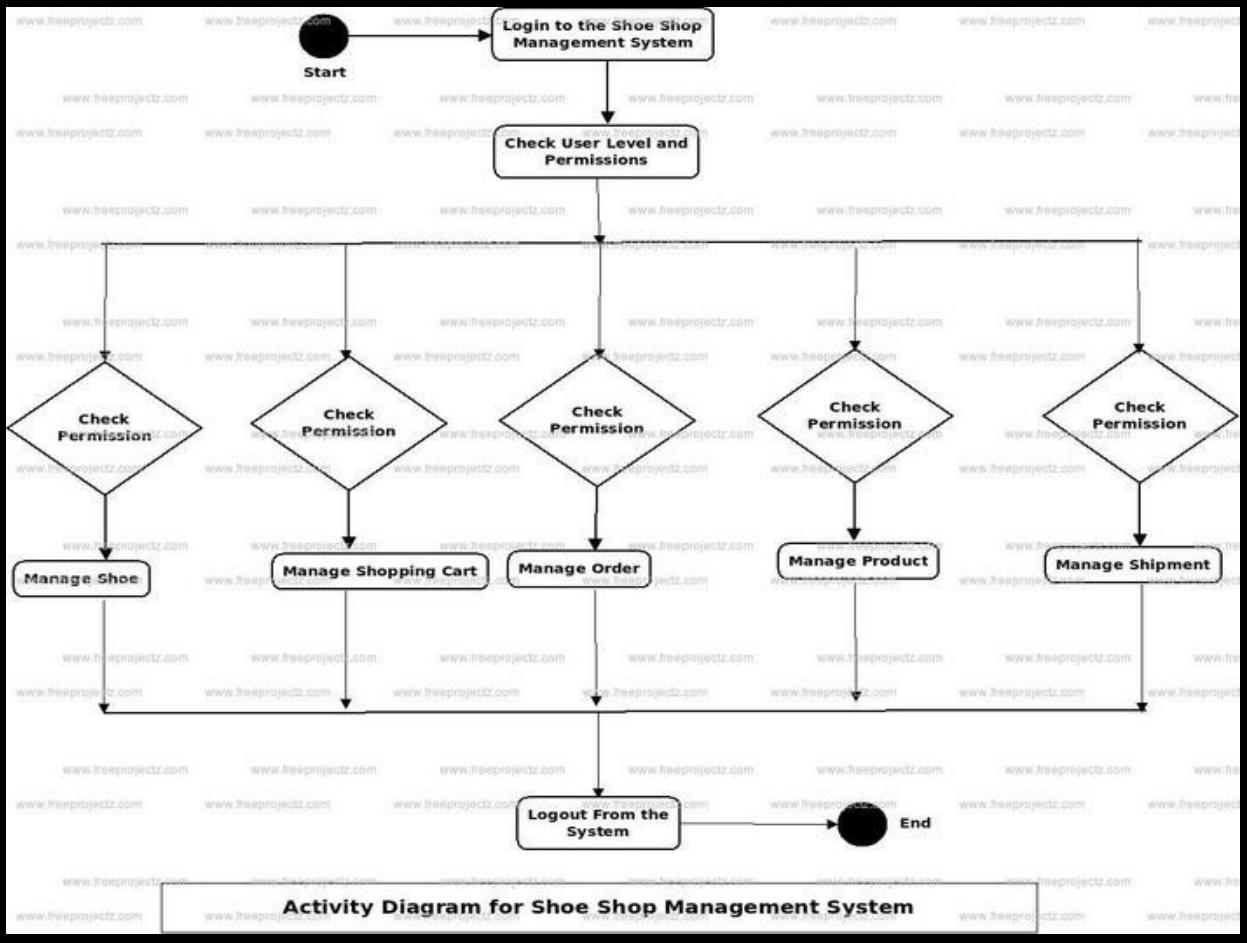
Sprint Wise Work :

1 a. Initialized the project, made it Spring boot starter project and added dependencies: MySQL Connector, Hibernate libraries. b. Setting MySQL database and entities relationship. c. Configured hibernate and mapped classes as entities.

2 a. Planned the structure of the website and navigation across it. b. Made the controller files. c. Made a Header and footer jsp pages to include it across every page.

3 a. Made the customer Login and Registration page. Admin Login: which is authorised according to data in the database. Change Password: Admin needs to enter the old password to authorise. Manage Products: Add, Delete, Update Products. Manage Customers: View, Delete and Search Customers. Manage Purchases/Orders: View, Delete and Search Orders.

Flowchart :


Start
Login to the Shoe Shop Management System
Check User Level and Permissions
Check Permission
Check Permission
Check Permission
Check Permission
Check Permission
Manage Shoe
Manage Shopping Cart
Manage Order
Manage Product
Manage Shipment
Logout From the System
End
Activity Diagram for Shoe Shop Management System