

SPRING BOOT JAVA APPLICATION

PROJECT :Supermarket Billing System

controller/AdminController.java

```
package com.supermarket.super_market_billing_system.controller;

import com.supermarket.super_market_billing_system.model.Bill;
import com.supermarket.super_market_billing_system.model.Product;
import com.supermarket.super_market_billing_system.service.BillService;
import com.supermarket.super_market_billing_system.service.ProductService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;

import java.util.List;

@Controller
@RequestMapping("/admin")
public class AdminController {

    @Autowired
    private ProductService productService;

    @Autowired
    private BillService billService;

    @GetMapping("/home")
    public String home(Model model) {
```

```
        model.addAttribute("products", productService.getAllProducts());  
        return "admin_home";  
    }  
}
```

```
@PostMapping("/add")  
public String addProduct(Product product) {  
    productService.addProduct(product);  
    return "redirect:/admin/home";  
}  
}
```

```
@GetMapping("/delete/{id}")  
public String deleteProduct(@PathVariable Long id) {  
    productService.deleteProduct(id);  
    return "redirect:/admin/home";  
}  
}
```

```
@GetMapping("/report")  
public String viewReport(Model model) {  
    List<Bill> bills = billService.getAllBills();  
    model.addAttribute("bills", bills);  
    return "report";  
}  
}
```

controller/AuthController.java

```
package com.supermarket.super_market_billing_system.controller;
```

```
import com.supermarket.super_market_billing_system.model.User;
```

```
import com.supermarket.super_market_billing_system.service.UserService;
```

```
import jakarta.servlet.http.HttpSession;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.*;
import org.springframework.ui.Model;
```

```
@Controller
```

```
public class AuthController {
```

```
    @Autowired
```

```
    private UserService userService;
```

```
    @GetMapping("/")
```

```
    public String showLogin() {
```

```
        return "login";
```

```
    }
```

```
    @PostMapping("/login")
```

```
    public String login(@RequestParam String username, @RequestParam String
password, HttpSession session) {
```

```
        User user = userService.validateUser(username, password);
```

```
        if (user != null) {
```

```
            session.setAttribute("user", user);
```

```
            return user.getRole().equals("admin") ? "redirect:/admin/home" :
"redirect:/customer/home";
```

```
        }
```

```
        return "login";
```

```
    }
```

```
}
```

controller/CustomerController.java

```
package com.supermarket.super_market_billing_system.controller;
```

```
import com.supermarket.super_market_billing_system.model.Bill;
```

```
import com.supermarket.super_market_billing_system.model.Product;
```

```
import com.supermarket.super_market_billing_system.service.BillService;
```

```
import com.supermarket.super_market_billing_system.service.ProductService;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Controller;
```

```
import org.springframework.ui.Model;
```

```
import org.springframework.web.bind.annotation.*;
```

```
import java.util.List;
```

```
@Controller
```

```
@RequestMapping("/customer")
```

```
public class CustomerController {
```

```
    @Autowired
```

```
    private ProductService productService;
```

```
    @Autowired
```

```
    private BillService billService;
```

```
    @GetMapping("/home")
```

```
    public String home(Model model) {
```

```
        model.addAttribute("products", productService.getAllProducts());
```

```
        return "customer_home";
```

```
    }
```

```
@PostMapping("/buy")
```

```
public String buy(@RequestParam String customer, @RequestParam Long  
productId, @RequestParam int quantity) {
```

```
    Product product = productService.getProductById(productId);
```

```
    if (product != null && product.getQuantity() >= quantity) {
```

```
        product.setQuantity(product.getQuantity() - quantity);
```

```
        productService.updateProduct(product);
```

```
        Bill bill = new Bill();
```

```
        bill.setCustomer(customer);
```

```
        bill.setProduct(product.getName());
```

```
        bill.setQuantity(quantity);
```

```
        bill.setTotal(quantity * product.getPrice());
```

```
        billService.addBill(bill);
```

```
    }
```

```
    return "redirect:/customer/home";
```

```
}
```

```
@GetMapping("/bill")
```

```
public String viewBill(@RequestParam(required = false) String customer, Model  
model) {
```

```
    model.addAttribute("bills", customer != null ?  
billService.getBillsByCustomer(customer) : billService.getAllBills());
```

```
    return "bill";
```

```
}
```

```
}
```

model/Bill.java

```
package com.supermarket.super_market_billing_system.model;
```

```
import jakarta.persistence.*;
```

```
@Entity
```

```
public class Bill {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    private Long id;
```

```
    private String customer;
```

```
    private String product;
```

```
    private int quantity;
```

```
    private double total;
```

```
// Getters and Setters
```

```
    public Long getId() {
```

```
        return id;
```

```
    }
```

```
    public void setId(Long id) {
```

```
        this.id = id;
```

```
    }
```

```
    public String getCustomer() {
```

```
        return customer;
```

```
    }
```

```
    public void setCustomer(String customer) {
```

```
        this.customer = customer;
```

```
    }
```

```
    public String getProduct() {
```

```

        return product;
    }

    public void setProduct(String product) {
        this.product = product;
    }

    public int getQuantity() {
        return quantity;
    }

    public void setQuantity(int quantity) {
        this.quantity = quantity;
    }

    public double getTotal() {
        return total;
    }

    public void setTotal(double total) {
        this.total = total;
    }
}

```

model/Product.java

```
package com.supermarket.super_market_billing_system.model;
```

```
import jakarta.persistence.*;
```

```
@Entity
```

```
public class Product {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
private Long id;  
private String name;  
private double price;  
private int quantity;
```

```
// Getters and Setters
```

```
public Long getId() {  
    return id;  
}  
public void setId(Long id) {  
    this.id = id;  
}  
public String getName() {  
    return name;  
}  
public void setName(String name) {  
    this.name = name;  
}  
public double getPrice() {  
    return price;  
}  
public void setPrice(double price) {  
    this.price = price;  
}  
public int getQuantity() {  
    return quantity;  
}  
public void setQuantity(int quantity) {  
    this.quantity = quantity;  
}
```



```
}  
  
}
```

model/User.java

```
package com.supermarket.super_market_billing_system.model;
```

```
import jakarta.persistence.*;
```

```
@Entity
```

```
public class User {
```

```
    @Id
```

```
    private String username;
```

```
    private String password;
```

```
    private String role;
```

```
    // Getters and Setters
```

```
        public String getUsername() {
```

```
            return username;
```

```
        }
```

```
        public void setUsername(String username) {
```

```
            this.username = username;
```

```
        }
```

```
        public String getPassword() {
```

```
            return password;
```

```
        }
```

```
        public void setPassword(String password) {
```

```
            this.password = password;
```

```

    }

    public String getRole() {
        return role;
    }

    public void setRole(String role) {
        this.role = role;
    }
}

```

repository/BillRepository.java

```

package com.supermarket.super_market_billing_system.repository;

import com.supermarket.super_market_billing_system.model.Bill;
import org.springframework.data.jpa.repository.JpaRepository;

import java.util.List;

public interface BillRepository extends JpaRepository<Bill, Long> {
    List<Bill> findByCustomer(String customer);
}

```

repository/ProductRepository.java

```

package com.supermarket.super_market_billing_system.repository;

import com.supermarket.super_market_billing_system.model.Product;
import org.springframework.data.jpa.repository.JpaRepository;

public interface ProductRepository extends JpaRepository<Product, Long> {

```

```
}
```

repository/UserRepository.java

```
package com.supermarket.super_market_billing_system.repository;
```

```
import com.supermarket.super_market_billing_system.model.User;
```

```
import org.springframework.data.jpa.repository.JpaRepository;
```

```
public interface UserRepository extends JpaRepository<User, String> {
```

```
    User findByUsernameAndPassword(String username, String password);
```

```
}
```

service/BillService.java

```
package com.supermarket.super_market_billing_system.service;
```

```
import com.supermarket.super_market_billing_system.model.Bill;
```

```
import com.supermarket.super_market_billing_system.repository.BillRepository;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Service;
```

```
import java.util.List;
```

```
@Service
```

```
public class BillService {
```

```
    @Autowired
```

```
    private BillRepository billRepository;
```

```

    public void addBill(Bill bill) {
        billRepository.save(bill);
    }

    public List<Bill> getBillsByCustomer(String customer) {
        return billRepository.findByCustomer(customer);
    }

    public List<Bill> getAllBills() {
        return billRepository.findAll();
    }
}

```

service/ProductService.java

```

package com.supermarket.super_market_billing_system.service;

import com.supermarket.super_market_billing_system.model.Product;
import com.supermarket.super_market_billing_system.repository.ProductRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.util.List;

@Service
public class ProductService {
    @Autowired
    private ProductRepository productRepository;
}

```

```

public void addProduct(Product product) {
    productRepository.save(product);
}

public void deleteProduct(Long id) {
    productRepository.deleteById(id);
}

public List<Product> getAllProducts() {
    return productRepository.findAll();
}

public Product getProductById(Long id) {
    return productRepository.findById(id).orElse(null);
}

public void updateProduct(Product product) {
    productRepository.save(product);
}
}

```

service/UserService.java

```

package com.supermarket.super_market_billing_system.service;

import com.supermarket.super_market_billing_system.model.User;
import com.supermarket.super_market_billing_system.repository.UserRepository;
import org.springframework.beans.factory.annotation.Autowired;

```

```
import org.springframework.stereotype.Service;
```

```
@Service
```

```
public class UserService {
```

```
    @Autowired
```

```
    private UserRepository userRepository;
```

```
    public User validateUser(String username, String password) {
```

```
        return userRepository.findByUsernameAndPassword(username, password);
```

```
    }
```

```
}
```

SuperMarketBillingSystemApplication.java

```
package com.supermarket.super_market_billing_system;
```

```
import org.springframework.boot.SpringApplication;
```

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
```

```
public class SuperMarketBillingSystemApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(SuperMarketBillingSystemApplication.class,  
args);
```

```
    }
```

```
}
```

templates/admin_home.html

```
<!DOCTYPE html>

<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Admin Dashboard - Supermarket Billing System</title>

  <style>

    * {

      box-sizing: border-box;

      margin: 0;

      padding: 0;

      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

    }

    body {

      background-color: #f5f5f5;

      min-height: 100vh;

    }

    .header {

      background-color: #3a86ff;

      color: white;

      padding: 15px 20px;

      display: flex;

      justify-content: space-between;

      align-items: center;

      box-shadow: 0 2px 5px rgba(0,0,0,0.1);

    }
```

```
.logo {  
    font-size: 20px;  
    font-weight: bold;  
}
```

```
.nav-links {  
    display: flex;  
}
```

```
.nav-links a {  
    color: white;  
    text-decoration: none;  
    margin-left: 20px;  
    padding: 8px 15px;  
    border-radius: 4px;  
    transition: background-color 0.3s;  
}
```

```
.nav-links a:hover {  
    background-color: rgba(255, 255, 255, 0.2);  
}
```

```
.container {  
    max-width: 1200px;  
    margin: 20px auto;  
    padding: 0 20px;  
}
```

```
.dashboard-title {
```



```
margin: 20px 0;
color: #333;
font-size: 24px;
}
```

```
.card {
  background-color: white;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0,0,0,0.1);
  padding: 20px;
  margin-bottom: 20px;
}
```

```
.product-grid {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(300px, 1fr));
  gap: 20px;
  margin-top: 20px;
}
```

```
.product-card {
  background-color: white;
  border-radius: 8px;
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);
  overflow: hidden;
  transition: transform 0.3s, box-shadow 0.3s;
}
```

```
.product-card:hover {
```

```
    transform: translateY(-5px);  
    box-shadow: 0 5px 15px rgba(0,0,0,0.1);  
}
```

```
.product-content {  
    padding: 15px;  
}
```

```
.product-title {  
    font-size: 18px;  
    font-weight: 500;  
    margin-bottom: 10px;  
}
```

```
.product-price {  
    color: #3a86ff;  
    font-weight: bold;  
    font-size: 18px;  
    margin-bottom: 10px;  
}
```

```
.product-stock {  
    color: #666;  
    margin-bottom: 15px;  
}
```

```
.product-actions {  
    display: flex;  
    justify-content: flex-end;
```

```
}
```

```
.delete-btn {  
  padding: 6px 12px;  
  background-color: #ff3a3a;  
  color: white;  
  border: none;  
  border-radius: 4px;  
  cursor: pointer;  
  transition: background-color 0.3s;  
}
```

```
.delete-btn:hover {  
  background-color: #e60000;  
}
```

```
.add-product-form {  
  display: grid;  
  grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));  
  gap: 15px;  
  margin-top: 20px;  
}
```

```
.form-control {  
  margin-bottom: 15px;  
}
```

```
.form-control label {  
  display: block;
```

```
margin-bottom: 5px;  
color: #555;  
}
```

```
.form-control input {  
width: 100%;  
padding: 10px;  
border: 1px solid #ddd;  
border-radius: 4px;  
font-size: 16px;  
}
```

```
.submit-btn {  
padding: 10px 15px;  
background-color: #3a86ff;  
color: white;  
border: none;  
border-radius: 4px;  
cursor: pointer;  
transition: background-color 0.3s;  
grid-column: 1 / -1;  
width: 200px;  
justify-self: end;  
}
```

```
.submit-btn:hover {  
background-color: #2667cc;  
}
```

```
</style>
```

```
</head>

<body>

  <div class="header">

    <div class="logo">Supermarket Admin</div>

    <div class="nav-links">

      <a th:href="@{/admin/home}">Products</a>

      <a th:href="@{/admin/report}">Report</a>

      <a th:href="@{/}">Logout</a>

    </div>

  </div>

  <div class="container">

    <h1 class="dashboard-title">Product Management</h1>

    <div class="card">

      <h2>Add New Product</h2>

      <form class="add-product-form" th:action="@{/admin/add}" method="post">

        <div class="form-control">

          <label for="name">Product Name</label>

          <input type="text" id="name" name="name" required>

        </div>

        <div class="form-control">

          <label for="price">Price</label>

          <input type="number" id="price" name="price" step="0.01" required>

        </div>

        <div class="form-control">

          <label for="quantity">Stock Quantity</label>

          <input type="number" id="quantity" name="quantity" required>

        </div>

      </form>

    </div>

  </div>

</div>
```

```

        <button type="submit" class="submit-btn">Add Product</button>
    </form>
</div>

<h2 class="dashboard-title">Current Inventory</h2>

<div class="product-grid">
    <div th:each="product : ${products}" class="product-card">
        <div class="product-content">
            <h3 class="product-title" th:text="${product.name}">Product Name</h3>
            <div class="product-price" th:text="Rs.' + ${product.price}">$0.00</div>
            <div class="product-stock" th:text="'In Stock: ' + ${product.quantity}">In
Stock: 0</div>
            <div class="product-actions">
                <a th:href="@{/admin/delete/{id}(id=${product.id})}" class="delete-
btn">Delete</a>
            </div>
        </div>
    </div>
</div>
</div>

<script>
    // Add any JavaScript functionality here
    document.addEventListener('DOMContentLoaded', function() {
        console.log('Admin dashboard loaded');
    });
</script>
</body>
</html>

```

templates/login.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Supermarket Billing System - Login</title>

  <style>

    * {

      box-sizing: border-box;

      margin: 0;

      padding: 0;

      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

    }

    body {

      background-color: #f5f5f5;

      display: flex;

      justify-content: center;

      align-items: center;

      height: 100vh;

      background-image: linear-gradient(135deg, #f5f7fa 0%, #c3cfe2 100%);

    }

    .login-container {

      background-color: white;

      border-radius: 10px;

      box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
```

```
padding: 40px;  
width: 400px;  
text-align: center;  
}
```

```
.login-logo {  
    font-size: 24px;  
    font-weight: bold;  
    color: #3a86ff;  
    margin-bottom: 30px;  
}
```

```
.login-form input {  
    width: 100%;  
    padding: 12px;  
    margin: 10px 0;  
    border: 1px solid #ddd;  
    border-radius: 5px;  
    font-size: 16px;  
}
```

```
.login-button {  
    background-color: #3a86ff;  
    color: white;  
    border: none;  
    padding: 12px;  
    width: 100%;  
    border-radius: 5px;  
    cursor: pointer;
```



```
font-size: 16px;
margin-top: 20px;
transition: background-color 0.3s;
}

.login-button:hover {
    background-color: #2667cc;
}

.error-message {
    color: #ff3a3a;
    margin-top: 20px;
    display: none;
}
</style>
</head>
<body>
    <div class="login-container">
        <div class="login-logo">Supermarket Billing System</div>
        <form class="login-form" action="/login" method="post">
            <input type="text" name="username" placeholder="Username" required>
            <input type="password" name="password" placeholder="Password"
required>
            <button type="submit" class="login-button">Login</button>
        </form>
        <p class="error-message" id="error-message">Invalid username or
password</p>
    </div>

    <script>
```

```
// Check for login failure

const urlParams = new URLSearchParams(window.location.search);
if (urlParams.has('error')) {
    document.getElementById('error-message').style.display = 'block';
}
</script>
</body>
</html>
```

templates/customer_home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Customer Dashboard - Supermarket Billing System</title>
    <style>
        * {
            box-sizing: border-box;
            margin: 0;
            padding: 0;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
        }

        body {
            background-color: #f5f5f5;
            min-height: 100vh;
        }
```

```
.header {  
    background-color: #3a86ff;  
    color: white;  
    padding: 15px 20px;  
    display: flex;  
    justify-content: space-between;  
    align-items: center;  
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
}
```

```
.logo {  
    font-size: 20px;  
    font-weight: bold;  
}
```

```
.nav-links {  
    display: flex;  
}
```

```
.nav-links a {  
    color: white;  
    text-decoration: none;  
    margin-left: 20px;  
    padding: 8px 15px;  
    border-radius: 4px;  
    transition: background-color 0.3s;  
}
```

```
.nav-links a:hover {
```

```
    background-color: rgba(255, 255, 255, 0.2);  
}
```

```
.container {  
    max-width: 1200px;  
    margin: 20px auto;  
    padding: 0 20px;  
}
```

```
.dashboard-title {  
    margin: 20px 0;  
    color: #333;  
    font-size: 24px;  
}
```

```
.products-container {  
    display: grid;  
    grid-template-columns: repeat(auto-fill, minmax(300px, 1fr));  
    gap: 20px;  
}
```

```
.product-card {  
    background-color: white;  
    border-radius: 8px;  
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
    overflow: hidden;  
    transition: transform 0.3s, box-shadow 0.3s;  
}
```

```
.product-card:hover {  
    transform: translateY(-5px);  
    box-shadow: 0 5px 15px rgba(0,0,0,0.1);  
}
```

```
.product-content {  
    padding: 20px;  
}
```

```
.product-title {  
    font-size: 18px;  
    font-weight: 500;  
    margin-bottom: 10px;  
}
```

```
.product-price {  
    color: #3a86ff;  
    font-weight: bold;  
    font-size: 18px;  
    margin-bottom: 10px;  
}
```

```
.product-stock {  
    color: #666;  
    margin-bottom: 15px;  
}
```

```
.buy-form {  
    margin-top: 15px;
```

```
}
```

```
.form-row {  
  display: flex;  
  align-items: center;  
  margin-bottom: 10px;  
}
```

```
.form-row label {  
  margin-right: 10px;  
  min-width: 80px;  
}
```

```
.form-row input {  
  flex: 1;  
  padding: 8px;  
  border: 1px solid #ddd;  
  border-radius: 4px;  
}
```

```
.buy-btn {  
  background-color: #3a86ff;  
  color: white;  
  border: none;  
  padding: 10px 15px;  
  border-radius: 4px;  
  cursor: pointer;  
  width: 100%;  
  font-size: 16px;
```

```
    transition: background-color 0.3s;
    margin-top: 10px;
}
```

```
.buy-btn:hover {
    background-color: #2667cc;
}
```

```
.no-stock {
    color: #ff3a3a;
    font-style: italic;
}
```

```
.customer-name-container {
    background-color: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);
    margin-bottom: 20px;
}
```

```
.customer-name-input {
    display: flex;
    align-items: center;
}
```

```
.customer-name-input label {
    margin-right: 10px;
    font-weight: 500;
```

```
}
```

```
.customer-name-input input {
```

```
    padding: 10px;
```

```
    border: 1px solid #ddd;
```

```
    border-radius: 4px;
```

```
    flex: 1;
```

```
    max-width: 300px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
  <div class="header">
```

```
    <div class="logo">Supermarket Shopping</div>
```

```
    <div class="nav-links">
```

```
      <a href="/customer/home">Products</a>
```

```
      <a href="/customer/bill" id="view-bills-link">View My Bills</a>
```

```
      <a href="/">Logout</a>
```

```
    </div>
```

```
  </div>
```

```
  <div class="container">
```

```
    <div class="customer-name-container">
```

```
      <div class="customer-name-input">
```

```
        <label for="customer-name">Your Name:</label>
```

```
        <input type="text" id="customer-name" placeholder="Enter your name">
```

```
      </div>
```

```
    </div>
```



```
<h1 class="dashboard-title">Available Products</h1>

<div class="products-container">

  <div th:each="product : ${products}" class="product-card">

    <div class="product-content">

      <h3 class="product-title" th:text="${product.name}">Product Name</h3>

      <div class="product-price" th:text="Rs.' +
${product.price}">Rs.0.00</div>

      <div th:if="${product.quantity > 0}" class="product-stock" th:text="In
Stock: ' + ${product.quantity}">In Stock: 0</div>

      <div th:if="${product.quantity <= 0}" class="no-stock">Out of
Stock</div>

      <form th:if="${product.quantity > 0}" class="buy-form"
action="/customer/buy" method="post">

        <input type="hidden" name="productId" th:value="${product.id}">

        <input type="hidden" name="customer" id="customer-field">

        <div class="form-row">

          <label for="quantity">Quantity:</label>

          <input type="number" id="quantity" name="quantity" min="1"
th:max="${product.quantity}" value="1">

        </div>

        <button type="submit" class="buy-btn">Buy Now</button>

      </form>

    </div>

  </div>

</div>

</div>
```

```
<script>

document.addEventListener('DOMContentLoaded', function() {

  const customerNameInput = document.getElementById('customer-name');
  const viewBillsLink = document.getElementById('view-bills-link');
  const buyForms = document.querySelectorAll('.buy-form');


  // Check if customer name is saved in localStorage
  if (localStorage.getItem('customerName')) {
    customerNameInput.value = localStorage.getItem('customerName');
  }


  // Update localStorage when customer name changes
  customerNameInput.addEventListener('input', function() {
    localStorage.setItem('customerName', this.value);
    updateCustomerFields();
    updateViewBillsLink();
  });


  // Add customer name to all buy forms
  function updateCustomerFields() {
    const customerName = customerNameInput.value;
    buyForms.forEach(form => {
      // Fix: Use a general selector that will work for all forms
      const customerField = form.querySelector('input[name="customer"]');
      if (customerField) {
        customerField.value = customerName;
      }
    });
  }
}
```

```

// Update the view bills link to include customer name
function updateViewBillsLink() {
    const customerName = customerNameInput.value;
    if (customerName) {
        viewBillsLink.href =
`/customer/bill?customer=${encodeURIComponent(customerName)}`;
    } else {
        viewBillsLink.href = '/customer/bill';
    }
}

// Initial update
updateCustomerFields();
updateViewBillsLink();

// Form validation
buyForms.forEach(form => {
    form.addEventListener('submit', function(e) {
        const customerName = customerNameInput.value.trim();
        if (!customerName) {
            e.preventDefault();
            alert('Please enter your name before making a purchase');
        }
    });
});

});

</script>
</body>

```

</html>

templates/bill.html

<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <meta name="viewport" content="width=device-width, initial-scale=1.0">

 <title>Bills - Supermarket Billing System</title>

 <style>

```
  * {  
    box-sizing: border-box;  
    margin: 0;  
    padding: 0;  
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
  }
```

```
  body {  
    background-color: #f5f5f5;  
    min-height: 100vh;  
  }
```

```
  .header {  
    background-color: #3a86ff;  
    color: white;  
    padding: 15px 20px;  
    display: flex;  
    justify-content: space-between;  
    align-items: center;
```

```
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
}
```

```
.logo {  
    font-size: 20px;  
    font-weight: bold;  
}
```

```
.nav-links {  
    display: flex;  
}
```

```
.nav-links a {  
    color: white;  
    text-decoration: none;  
    margin-left: 20px;  
    padding: 8px 15px;  
    border-radius: 4px;  
    transition: background-color 0.3s;  
}
```

```
.nav-links a:hover {  
    background-color: rgba(255, 255, 255, 0.2);  
}
```

```
.container {  
    max-width: 1200px;  
    margin: 20px auto;  
    padding: 0 20px;
```

```
}
```

```
.dashboard-title {  
    margin: 20px 0;  
    color: #333;  
    font-size: 24px;  
}
```

```
.bills-container {  
    background-color: white;  
    border-radius: 8px;  
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
    overflow: hidden;  
}
```

```
.bill-table {  
    width: 100%;  
    border-collapse: collapse;  
}
```

```
.bill-table th, .bill-table td {  
    padding: 12px 15px;  
    text-align: left;  
    border-bottom: 1px solid #ddd;  
}
```

```
.bill-table th {  
    background-color: #f8f9fa;  
    font-weight: 600;
```

```
    color: #333;  
}
```

```
.bill-table tbody tr:hover {  
    background-color: #f5f5f5;  
}
```

```
.bill-total {  
    color: #3a86ff;  
    font-weight: bold;  
}
```

```
.bill-date {  
    color: #666;  
    font-size: 14px;  
}
```

```
.bill-actions {  
    display: flex;  
    gap: 10px;  
}
```

```
.print-btn {  
    padding: 6px 12px;  
    background-color: #3a86ff;  
    color: white;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;
```

```
text-decoration: none;
font-size: 14px;
transition: background-color 0.3s;
}
```

```
.print-btn:hover {
  background-color: #2667cc;
}
```

```
.no-bills {
  padding: 30px;
  text-align: center;
  color: #666;
  font-style: italic;
}
```

```
.bills-summary {
  margin-top: 20px;
  padding: 15px;
  background-color: white;
  border-radius: 8px;
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);
}
```

```
.summary-item {
  display: flex;
  justify-content: space-between;
  padding: 10px 0;
  border-bottom: 1px solid #eee;
}
```



```
}
```

```
.summary-item:last-child {  
    border-bottom: none;  
    font-weight: bold;  
}
```

```
.summary-label {  
    color: #555;  
}
```

```
.summary-value {  
    color: #333;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
<div class="logo">Supermarket Bills</div>
```

```
<div class="nav-links">
```

```
<a href="#" id="back-link">Back</a>
```

```
<a href="/">Logout</a>
```

```
</div>
```

```
</div>
```

```
<div class="container">
```

```
<h1 class="dashboard-title" id="bills-title">Bills</h1>
```

```
<div class="bills-container">
```

```
<table class="bill-table">
  <thead>
    <tr>
      <th>ID</th>
      <th>Customer</th>
      <th>Product</th>
      <th>Quantity</th>
      <th>Total</th>
      <th>Actions</th>
    </tr>
  </thead>
  <tbody>
    <tr th:if="{bills.empty}">
      <td colspan="6" class="no-bills">No bills found</td>
    </tr>
    <tr th:each="bill : {bills}">
      <td th:text="{bill.id}">1</td>
      <td th:text="{bill.customer}">Customer Name</td>
      <td th:text="{bill.product}">Product Name</td>
      <td th:text="{bill.quantity}">1</td>
      <td class="bill-total" th:text="Rs.' + {bill.total}">Rs.0.00</td>
      <td class="bill-actions">
        <button class="print-btn" th:onclick="printBill(' + {bill.id} +
')">Print</button>
      </td>
    </tr>
  </tbody>
</table>
</div>
```

```
<div class="bills-summary" id="bills-summary">
  <h3>Summary</h3>
  <div class="summary-item">
    <span class="summary-label">Total Bills:</span>
    <span class="summary-value" id="total-bills">0</span>
  </div>
  <div class="summary-item">
    <span class="summary-label">Total Products:</span>
    <span class="summary-value" id="total-products">0</span>
  </div>
  <div class="summary-item">
    <span class="summary-label">Total Amount:</span>
    <span class="summary-value" id="total-amount">Rs.0.00</span>
  </div>
</div>

</div>

<script>
  document.addEventListener('DOMContentLoaded', function() {
    const backLink = document.getElementById('back-link');
    const billsTitle = document.getElementById('bills-title');
    const urlParams = new URLSearchParams(window.location.search);
    const customer = urlParams.get('customer');

    // Set back link based on current path
    if (window.location.pathname.includes('/admin')) {
      backLink.href = '/admin/home';
      billsTitle.textContent = 'All Bills';
    }
  });
</script>
```

```
} else {  
    backLink.href = '/customer/home';  
    if (customer) {  
        billsTitle.textContent = `Bills for ${customer}`;  
    } else {  
        billsTitle.textContent = 'All Bills';  
    }  
}
```

// Calculate summary statistics - FIXED calculation logic for total amount with Rs. prefix

```
const billRows = Array.from(document.querySelectorAll('.bill-table tbody tr')).filter(row => !row.querySelector('.no-bills'));
```

```
if (billRows.length > 0) {  
    // Count the total number of bills  
    const totalBills = billRows.length;  
  
    // Sum the quantities from all bills  
    const totalProducts = billRows.reduce((sum, row) => {  
        // Get quantity from the 4th cell (index 3)  
        const quantity = parseInt(row.cells[3].textContent) || 0;  
        return sum + quantity;  
    }, 0);
```

```
    // Calculate total amount from all bills - FIXED for Rs. prefix  
    const totalAmount = billRows.reduce((sum, row) => {  
        // Get amount from the 5th cell (index 4), removing 'Rs.' and converting  
to float  
        const amountText = row.cells[4].textContent;
```

```

        const amount = parseFloat(amountText.replace('Rs.', '').trim()) || 0;
        return sum + amount;
    }, 0);

    // Update the summary display
    document.getElementById('total-bills').textContent = totalBills;
    document.getElementById('total-products').textContent = totalProducts;
    document.getElementById('total-amount').textContent = 'Rs.' +
totalAmount.toFixed(2);

    // Make sure the summary is visible
    document.getElementById('bills-summary').style.display = 'block';
} else {
    // If no bills, you can choose to hide or show zeros
    document.getElementById('bills-summary').style.display = 'block';
}
});

function printBill(billId) {
    // Find the bill row
    const billRow = Array.from(document.querySelectorAll('.bill-table tbody
tr')).find(row => {
        return row.cells[0].textContent == billId;
    });

    if (!billRow) return;

    // Extract bill data
    const id = billRow.cells[0].textContent;
    const customer = billRow.cells[1].textContent;

```

```
const product = billRow.cells[2].textContent;
const quantity = billRow.cells[3].textContent;
const total = billRow.cells[4].textContent;
```

```
// Create a printable bill
```

```
const printWindow = window.open("", "", 'height=500,width=800');
```

```
printWindow.document.write(`
```

```
<html>
```

```
<head>
```

```
<title>Bill #${id}</title>
```

```
<style>
```

```
  body {
```

```
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
```

```
    padding: 20px;
```

```
    max-width: 800px;
```

```
    margin: 0 auto;
```

```
  }
```

```
  .bill-header {
```

```
    text-align: center;
```

```
    margin-bottom: 30px;
```

```
  }
```

```
  .bill-title {
```

```
    font-size: 24px;
```

```
    margin-bottom: 10px;
```

```
  }
```

```
  .bill-subtitle {
```

```
    color: #666;
```

```
    font-size: 16px;
```

```
  }
```

```
.bill-info {  
    margin: 20px 0;  
    padding: 15px;  
    border: 1px solid #ddd;  
    border-radius: 5px;  
}  
  
.bill-row {  
    display: flex;  
    justify-content: space-between;  
    padding: 10px 0;  
    border-bottom: 1px solid #eee;  
}  
  
.bill-row:last-child {  
    border-bottom: none;  
}  
  
.bill-label {  
    font-weight: bold;  
    color: #555;  
}  
  
.bill-value {  
    color: #333;  
}  
  
.bill-total-row {  
    font-size: 18px;  
    font-weight: bold;  
    margin-top: 20px;  
    padding-top: 10px;  
    border-top: 2px solid #ddd;  
}
```

```

.bill-footer {
    margin-top: 40px;
    text-align: center;
    color: #666;
    font-style: italic;
}

.print-btn {
    padding: 10px 20px;
    background-color: #3a86ff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    display: block;
    margin: 30px auto;
    font-size: 16px;
}

@media print {
    .print-btn {
        display: none;
    }
}

</style>

</head>

<body>

<div class="bill-header">

    <h1 class="bill-title">Supermarket Billing System</h1>

    <p class="bill-subtitle">Bill Receipt #${id}</p>

    <p class="bill-subtitle">Date: ${new Date().toLocaleDateString()}</p>

```


</div>

<div class="bill-info">

<div class="bill-row">

Customer:

\${customer}

</div>

<div class="bill-row">

Product:

\${product}

</div>

<div class="bill-row">

Quantity:

\${quantity}

</div>

<div class="bill-row bill-total-row">

Total Amount:

\${total}

</div>

</div>

<div class="bill-footer">

<p>Thank you for shopping with us!</p>

<p>This is a computer-generated receipt and does not require a signature.</p>

</div>

<button class="print-btn" onclick="window.print(); return false;">Print
Receipt</button>

</body>

```
        </html>

        `);
        printWindow.document.close();
        printWindow.focus();
    }
</script>
</body>
</html>
```

templates/report.html

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sales Report - Supermarket Billing System</title>
    <style>
        * {
            box-sizing: border-box;
            margin: 0;
            padding: 0;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
        }

        body {
            background-color: #f5f5f5;
            min-height: 100vh;
        }
```

```
.header {  
    background-color: #3a86ff;  
    color: white;  
    padding: 15px 20px;  
    display: flex;  
    justify-content: space-between;  
    align-items: center;  
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
}
```

```
.logo {  
    font-size: 20px;  
    font-weight: bold;  
}
```

```
.nav-links {  
    display: flex;  
}
```

```
.nav-links a {  
    color: white;  
    text-decoration: none;  
    margin-left: 20px;  
    padding: 8px 15px;  
    border-radius: 4px;  
    transition: background-color 0.3s;  
}
```

```
.nav-links a:hover {
```

```
background-color: rgba(255, 255, 255, 0.2);  
}
```

```
.container {  
  max-width: 1200px;  
  margin: 20px auto;  
  padding: 0 20px;  
}
```

```
.dashboard-title {  
  margin: 20px 0;  
  color: #333;  
  font-size: 24px;  
}
```

```
.report-container {  
  display: grid;  
  grid-template-columns: 1fr 1fr;  
  gap: 20px;  
}
```

```
.card {  
  background-color: white;  
  border-radius: 8px;  
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
  padding: 20px;  
  height: 100%;  
}
```

```
.card-title {  
  color: #333;  
  font-size: 18px;  
  margin-bottom: 15px;  
  padding-bottom: 10px;  
  border-bottom: 1px solid #eee;  
}
```

```
.stats-grid {  
  display: grid;  
  grid-template-columns: repeat(2, 1fr);  
  gap: 15px;  
  margin-bottom: 20px;  
}
```

```
.stat-card {  
  background-color: #f8f9fa;  
  padding: 15px;  
  border-radius: 6px;  
  text-align: center;  
}
```

```
.stat-value {  
  font-size: 24px;  
  font-weight: bold;  
  color: #3a86ff;  
  margin-bottom: 5px;  
}
```

```
.stat-label {  
    color: #666;  
    font-size: 14px;  
}
```

```
.table-container {  
    overflow-x: auto;  
}
```

```
.data-table {  
    width: 100%;  
    border-collapse: collapse;  
}
```

```
.data-table th, .data-table td {  
    padding: 12px 15px;  
    text-align: left;  
    border-bottom: 1px solid #ddd;  
}
```

```
.data-table th {  
    background-color: #f8f9fa;  
    font-weight: 600;  
    color: #333;  
}
```

```
.data-table tbody tr:hover {  
    background-color: #f5f5f5;  
}
```

```
.chart-container {  
    height: 300px;  
    margin-top: 20px;  
}
```

```
.filter-container {  
    margin-bottom: 20px;  
    padding: 15px;  
    background-color: white;  
    border-radius: 8px;  
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
    display: flex;  
    gap: 15px;  
    align-items: center;  
    flex-wrap: wrap;  
}
```

```
.filter-item {  
    display: flex;  
    align-items: center;  
    gap: 10px;  
}
```

```
.filter-label {  
    font-weight: 500;  
    color: #555;  
}
```

```
.filter-select {  
    padding: 8px 12px;  
    border: 1px solid #ddd;  
    border-radius: 4px;  
    color: #333;  
    background-color: white;  
}
```

```
.filter-button {  
    padding: 8px 15px;  
    background-color: #3a86ff;  
    color: white;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
    margin-left: auto;  
    transition: background-color 0.3s;  
}
```

```
.filter-button:hover {  
    background-color: #2667cc;  
}
```

```
.print-button {  
    background-color: #4CAF50;  
}
```

```
.print-button:hover {  
    background-color: #3e8e41;
```



```
}
```

```
@media (max-width: 992px) {  
  .report-container {  
    grid-template-columns: 1fr;  
  }  
}
```

```
@media print {  
  .header, .filter-container, .nav-links, .filter-button {  
    display: none;  
  }  
}
```

```
body {  
  background-color: white;  
}
```

```
.container {  
  max-width: 100%;  
  padding: 0;  
}
```

```
.card {  
  box-shadow: none;  
  border: 1px solid #ddd;  
}
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
  <div class="header">
    <div class="logo">Supermarket Sales Report</div>
    <div class="nav-links">
      <a th:href="@{/admin/home}">Products</a>
      <a th:href="@{/}">Logout</a>
    </div>
  </div>

  <div class="container">
    <h1 class="dashboard-title">Sales Report</h1>

    <div class="filter-container">
      <div class="filter-item">
        <span class="filter-label">Customer:</span>
        <select id="customer-filter" class="filter-select">
          <option value="">All Customers</option>
          <!-- Will be populated dynamically -->
        </select>
      </div>
      <div class="filter-item">
        <span class="filter-label">Product:</span>
        <select id="product-filter" class="filter-select">
          <option value="">All Products</option>
          <!-- Will be populated dynamically -->
        </select>
      </div>
      <button id="filter-btn" class="filter-button">Apply Filters</button>
      <button id="print-btn" class="filter-button print-button">Print Report</button>
    </div>
  </div>
</div>
```

</div>

<div class="report-container">

<div class="card">

<h2 class="card-title">Sales Summary</h2>

<div class="stats-grid">

<div class="stat-card">

<div class="stat-value" id="total-sales">0</div>

<div class="stat-label">Total Sales</div>

</div>

<div class="stat-card">

<div class="stat-value" id="total-revenue">Rs.0</div>

<div class="stat-label">Total Revenue</div>

</div>

<div class="stat-card">

<div class="stat-value" id="total-customers">0</div>

<div class="stat-label">Total Customers</div>

</div>

<div class="stat-card">

<div class="stat-value" id="avg-sale">Rs.0</div>

<div class="stat-label">Average Sale</div>

</div>

</div>

<div class="chart-container">

<canvas id="sales-chart"></canvas>

</div>

</div>

```
<div class="card">

  <h2 class="card-title">Top Products</h2>

  <div class="table-container">

    <table class="data-table" id="products-table">

      <thead>

        <tr>

          <th>Product</th>

          <th>Quantity Sold</th>

          <th>Revenue</th>

        </tr>

      </thead>

      <tbody id="products-body">

        <!-- Will be populated dynamically -->

      </tbody>

    </table>

  </div>
```

```
<h2 class="card-title" style="margin-top: 30px;">Top Customers</h2>

<div class="table-container">

  <table class="data-table" id="customers-table">

    <thead>

      <tr>

        <th>Customer</th>

        <th>Purchases</th>

        <th>Total Spent</th>

      </tr>

    </thead>

    <tbody id="customers-body">

      <!-- Will be populated dynamically -->

    </tbody>

  </table>

</div>
```

```
        </tbody>
    </table>
</div>
</div>
</div>
</div>
```

```
<script
src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/3.7.0/chart.min.js"></script>
```

```
<script th:inline="javascript">
    document.addEventListener('DOMContentLoaded', function() {
        // Get bills data from the model
        const bills = /*[[${bills}]]*/ [];

        // Process the bills data
        function processData(data) {
            // Sales summary
            const totalSales = data.length;
            const totalRevenue = data.reduce((sum, bill) => sum + bill.total, 0);
            const customers = [...new Set(data.map(bill => bill.customer))];
            const totalCustomers = customers.length;
            const avgSale = totalSales > 0 ? totalRevenue / totalSales : 0;

            document.getElementById('total-sales').textContent = totalSales;
            document.getElementById('total-revenue').textContent = 'Rs.' +
totalRevenue.toFixed(2);
            document.getElementById('total-customers').textContent = totalCustomers;
            document.getElementById('avg-sale').textContent = 'Rs.' +
avgSale.toFixed(2);
        }
    });
</script>
```

```

// Top products
const productsSummary = {};
data.forEach(bill => {
  if (!productsSummary[bill.product]) {
    productsSummary[bill.product] = { quantity: 0, revenue: 0 };
  }
  productsSummary[bill.product].quantity += bill.quantity;
  productsSummary[bill.product].revenue += bill.total;
});

const productsArray = Object.entries(productsSummary).map(([product,
data]) => ({
  product,
  quantity: data.quantity,
  revenue: data.revenue
})));

productsArray.sort((a, b) => b.revenue - a.revenue);

const productsBody = document.getElementById('products-body');
productsBody.innerHTML = "";
productsArray.forEach(item => {
  const row = document.createElement('tr');
  row.innerHTML = `
    <td>${item.product}</td>
    <td>${item.quantity}</td>
    <td>$$${item.revenue.toFixed(2)}</td>
  `;
  productsBody.appendChild(row);

```

```
});
```

```
// Top customers
```

```
const customersSummary = {};
```

```
data.forEach(bill => {
```

```
  if (!customersSummary[bill.customer]) {
```

```
    customersSummary[bill.customer] = { purchases: 0, spent: 0 };
```

```
  }
```

```
  customersSummary[bill.customer].purchases += 1;
```

```
  customersSummary[bill.customer].spent += bill.total;
```

```
});
```

```
const customersArray =
```

```
Object.entries(customersSummary).map(([customer, data]) => ({
```

```
  customer,
```

```
  purchases: data.purchases,
```

```
  spent: data.spent
```

```
}));
```

```
customersArray.sort((a, b) => b.spent - a.spent);
```

```
const customersBody = document.getElementById('customers-body');
```

```
customersBody.innerHTML = '';
```

```
customersArray.forEach(item => {
```

```
  const row = document.createElement('tr');
```

```
  row.innerHTML = `
```

```
    <td>${item.customer}</td>
```

```
    <td>${item.purchases}</td>
```

```
    <td>${item.spent.toFixed(2)}</td>
```

```

    `;
    customersBody.appendChild(row);
  });

  // Chart
  renderChart(productsArray);

  // Populate filters
  const customerFilter = document.getElementById('customer-filter');
  const productFilter = document.getElementById('product-filter');

  // Clear existing options
  customerFilter.innerHTML = '<option value="">All Customers</option>';
  productFilter.innerHTML = '<option value="">All Products</option>';

  // Add customer options
  customers.forEach(customer => {
    const option = document.createElement('option');
    option.value = customer;
    option.textContent = customer;
    customerFilter.appendChild(option);
  });

  // Add product options
  Object.keys(productsSummary).forEach(product => {
    const option = document.createElement('option');
    option.value = product;
    option.textContent = product;
    productFilter.appendChild(option);
  });

```



```
});  
}
```

```
function renderChart(productsData) {  
  const ctx = document.getElementById('sales-chart').getContext('2d');  
  
  // Destroy existing chart if it exists  
  if (window.salesChart) {  
    window.salesChart.destroy();  
  }  
  
  // Get top 5 products for the chart  
  const topProducts = productsData.slice(0, 5);  
  
  window.salesChart = new Chart(ctx, {  
    type: 'bar',  
    data: {  
      labels: topProducts.map(item => item.product),  
      datasets: [{  
        label: 'Revenue ($)',  
        data: topProducts.map(item => item.revenue),  
        backgroundColor: 'rgba(58, 134, 255, 0.7)',  
        borderColor: 'rgba(58, 134, 255, 1)',  
        borderWidth: 1  
      }]  
    },  
    options: {  
      responsive: true,  
      maintainAspectRatio: false,  
    },  
  });  
}
```

```

scales: {
  y: {
    beginAtZero: true,
    title: {
      display: true,
      text: 'Revenue ($)'
    }
  }
},
plugins: {
  title: {
    display: true,
    text: 'Top 5 Products by Revenue'
  },
  legend: {
    display: false
  }
}
});
}

```

```

// Initial data processing
processData(bills);

```

```

// Filter button click handler
document.getElementById('filter-btn').addEventListener('click', function() {
  const customerFilter = document.getElementById('customer-filter').value;
  const productFilter = document.getElementById('product-filter').value;

```

```
    let filteredData = bills;

    if (customerFilter) {
        filteredData = filteredData.filter(bill => bill.customer === customerFilter);
    }

    if (productFilter) {
        filteredData = filteredData.filter(bill => bill.product === productFilter);
    }

    processData(filteredData);
});

// Print button click handler
document.getElementById('print-btn').addEventListener('click', function() {
    window.print();
});
});
</script>
</body>
</html>
```

application.properties

```
spring.application.name=super-market-billing-system
# DataSource Configuration
spring.datasource.url=jdbc:mysql://localhost:3306/supermarketdb
spring.datasource.username=root
spring.datasource.password=ram@123
```

JPA/Hibernate Configuration

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

Thymeleaf

spring.thymeleaf.cache=false

Server port (optional)

server.port=8080