Source Code

package com.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class MedicareApplication {

public static void main(String[] args) {

SpringApplication.run(MedicareApplication.class, args);

}

}

package com.controller;

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

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

import com.model.Cart;

import com.model.CartDetail;

import com.service.CartService;

@RestController

@RequestMapping("/api/cart")

public class CartController {

@Autowired

private CartService cartService;

@GetMapping

public Cart getCart() {

return cartService.getCart();

}

@PostMapping

public void addItem(@RequestBody CartDetail cartDetail) {

cartService.addItem(cartDetail);

}

@DeleteMapping

public void removeItem(@RequestBody CartDetail cartDetail) {

cartService.removeItem(cartDetail);

}

}

package com.controller;

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

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

import com.model.Medicine;

import com.service.MedicineService;

import java.util.List;

@RestController

@RequestMapping("/api/medicines")

public class MedicineController {

@Autowired

private MedicineService medicineService;

@GetMapping

public List<Medicine> getAllMedicines() {

return medicineService.getAllMedicines();

}

@GetMapping("/{id}")

public Medicine getMedicineById(@PathVariable Long id) {

return medicineService.getMedicineById(id)

.orElseThrow(() -> new IllegalArgumentException("Medicine not found"));

}

@PostMapping

public Medicine saveMedicine(@RequestBody Medicine medicine) {

return medicineService.saveMedicine(medicine);

}

@DeleteMapping("/{id}")

public void deleteMedicine(@PathVariable Long id) {

medicineService.deleteMedicine(id);

}

}

package com.controller;

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

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

import com.model.Order;

import com.service.OrderService;

import java.util.List;

@RestController

@RequestMapping("/api/orders")

public class OrderController {

@Autowired

private OrderService orderService;

@GetMapping

public List<Order> getAllOrders() {

return orderService.getAllOrders();

}

@GetMapping("/{id}")

public Order getOrderById(@PathVariable Long id) {

return orderService.getOrderById(id)

.orElseThrow(() -> new IllegalArgumentException("Order not found"));

}

@PostMapping

public Order saveOrder(@RequestBody Order order) {

return orderService.saveOrder(order);

}

@DeleteMapping("/{id}")

public void deleteOrder(@PathVariable Long id) {

orderService.deleteOrder(id);

}

}

package com.controller;

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

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

import com.model.User;

import com.service.UserService;

@RestController

@RequestMapping("/api/users")

public class UserController {

@Autowired

private UserService userService;

@GetMapping("/{username}")

public User getUserByUsername(@PathVariable String username) {

return userService.findByUsername(username);

}

@PostMapping

public User saveUser(@RequestBody User user) {

return userService.saveUser(user);

}

}

package com.model;

import java.util.ArrayList;

import java.util.List;

public class Cart {

private List<CartDetail> cartDetails;

public Cart() {

cartDetails = new ArrayList<>();

}

public List<CartDetail> getCartDetails() {

return cartDetails;

}

public void setCartDetails(List<CartDetail> cartDetails) {

this.cartDetails = cartDetails;

}

public void addItem(CartDetail cartDetail) {

this.cartDetails.add(cartDetail);

}

public void removeItem(CartDetail cartDetail) {

this.cartDetails.remove(cartDetail);

}

}

package com.model;

public class CartDetail {

private Medicine medicine;

private int quantity;

public CartDetail(Medicine medicine, int quantity) {

this.medicine = medicine;

this.quantity = quantity;

}

public Medicine getMedicine() {

return medicine;

}

public void setMedicine(Medicine medicine) {

this.medicine = medicine;

}

public int getQuantity() {

return quantity;

}

public void setQuantity(int quantity) {

this.quantity = quantity;

}

}

package com.model;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

@Entity

public class Medicine {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String name;

private double price;

private String seller;

private String description;

private boolean enabled;

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 String getSeller() {

return seller;

}

public void setSeller(String seller) {

this.seller = seller;

}

public String getDescription() {

return description;

}

public void setDescription(String description) {

this.description = description;

}

public boolean isEnabled() {

return enabled;

}

public void setEnabled(boolean enabled) {

this.enabled = enabled;

}

public Medicine(Long id, String name, double price, String seller, String description, boolean enabled) {

super();

this.id = id;

this.name = name;

this.price = price;

this.seller = seller;

this.description = description;

this.enabled = enabled;

}

public Medicine() {

super();

// TODO Auto-generated constructor stub

}

}

package com.model;

import java.sql.Date;

import java.util.List;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

import jakarta.persistence.JoinColumn;

import jakarta.persistence.ManyToOne;

import jakarta.persistence.OneToMany;

@Entity

public class Order {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private Date orderDate;

@ManyToOne

@JoinColumn(name = "user\_id")

private User user;

@OneToMany(mappedBy = "order")

private List<OrderDetail> orderDetails;

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public Date getOrderDate() {

return orderDate;

}

public void setOrderDate(Date orderDate) {

this.orderDate = orderDate;

}

public User getUser() {

return user;

}

public void setUser(User user) {

this.user = user;

}

public List<OrderDetail> getOrderDetails() {

return orderDetails;

}

public void setOrderDetails(List<OrderDetail> orderDetails) {

this.orderDetails = orderDetails;

}

public Order(Long id, Date orderDate, User user, List<OrderDetail> orderDetails) {

super();

this.id = id;

this.orderDate = orderDate;

this.user = user;

this.orderDetails = orderDetails;

}

public Order() {

super();

// TODO Auto-generated constructor stub

}

}

package com.model;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

import jakarta.persistence.JoinColumn;

import jakarta.persistence.ManyToOne;

@Entity

public class OrderDetail {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

@ManyToOne

@JoinColumn(name = "order\_id")

private Order order;

@ManyToOne

@JoinColumn(name = "medicine\_id")

private Medicine medicine;

private int quantity;

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public Order getOrder() {

return order;

}

public void setOrder(Order order) {

this.order = order;

}

public Medicine getMedicine() {

return medicine;

}

public void setMedicine(Medicine medicine) {

this.medicine = medicine;

}

public int getQuantity() {

return quantity;

}

public void setQuantity(int quantity) {

this.quantity = quantity;

}

public OrderDetail(Long id, Order order, Medicine medicine, int quantity) {

super();

this.id = id;

this.order = order;

this.medicine = medicine;

this.quantity = quantity;

}

public OrderDetail() {

super();

// TODO Auto-generated constructor stub

}

}

package com.model;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

@Entity

public class User {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String username;

private String password;

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

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 User(Long id, String username, String password) {

super();

this.id = id;

this.username = username;

this.password = password;

}

public User() {

super();

// TODO Auto-generated constructor stub

}

}

package com.repo;

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

import com.model.Medicine;

public interface MedicineRepository extends JpaRepository<Medicine, Long> {

}

package com.repo;

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

import com.model.OrderDetail;

public interface OrderDetailRepository extends JpaRepository<OrderDetail, Long> {

}

package com.repo;

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

import com.model.Order;

public interface OrderRepository extends JpaRepository<Order, Long> {

}

package com.repo;

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

import com.model.User;

public interface UserRepository extends JpaRepository<User, Long> {

User findByUsername(String username);

}

package com.service;

import org.springframework.stereotype.Service;

import com.model.Cart;

import com.model.CartDetail;

@Service

public class CartService {

private Cart cart;

public CartService() {

this.cart = new Cart();

}

public void addItem(CartDetail cartDetail) {

cart.addItem(cartDetail);

}

public void removeItem(CartDetail cartDetail) {

cart.removeItem(cartDetail);

}

public Cart getCart() {

return cart;

}

}

package com.service;

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

import org.springframework.stereotype.Service;

import com.model.Medicine;

import com.repo.MedicineRepository;

import java.util.List;

import java.util.Optional;

@Service

public class MedicineService {

@Autowired

private MedicineRepository medicineRepository;

public List<Medicine> getAllMedicines() {

return medicineRepository.findAll();

}

public Optional<Medicine> getMedicineById(Long id) {

return medicineRepository.findById(id);

}

public Medicine saveMedicine(Medicine medicine) {

return medicineRepository.save(medicine);

}

public void deleteMedicine(Long id) {

medicineRepository.deleteById(id);

}

}

package com.service;

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

import org.springframework.stereotype.Service;

import com.model.Order;

import com.repo.OrderRepository;

import java.util.List;

import java.util.Optional;

@Service

public class OrderService {

@Autowired

private OrderRepository orderRepository;

public List<Order> getAllOrders() {

return orderRepository.findAll();

}

public Optional<Order> getOrderById(Long id) {

return orderRepository.findById(id);

}

public Order saveOrder(Order order) {

return orderRepository.save(order);

}

public void deleteOrder(Long id) {

orderRepository.deleteById(id);

}

}

package com.service;

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

import org.springframework.stereotype.Service;

import com.model.User;

import com.repo.UserRepository;

@Service

public class UserService {

@Autowired

private UserRepository userRepository;

public User findByUsername(String username) {

return userRepository.findByUsername(username);

}

public User saveUser(User user) {

return userRepository.save(user);

}

}