Source Code

# Backend

1. Model Classes

package com.model;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

@Entity

public class Admin {

@Id

private String username;

private String password;

public Admin() {

}

public Admin(String username, String password) {

this.username = username;

this.password = password;

}

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;

}

@Override

public String toString() {

return "Admin [username=" + username + ", password=" + password + "]";

}

}

package com.model;

import jakarta.persistence.Entity;

import jakarta.persistence.GeneratedValue;

import jakarta.persistence.GenerationType;

import jakarta.persistence.Id;

@Entity

public class FoodItem {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String name;

private double price;

private String description;

public FoodItem() {

}

public FoodItem(String name, double price, String description) {

this.name = name;

this.price = price;

this.description = description;

}

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 getDescription() {

return description;

}

public void setDescription(String description) {

this.description = description;

}

public FoodItem(Long id, String name, double price, String description) {

super();

this.id = id;

this.name = name;

this.price = price;

this.description = description;

}

@Override

public String toString() {

return "FoodItem [id=" + id + ", name=" + name + ", price=" + price + ", description=" + description + "]";

}

}

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 Order {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

@ManyToOne

@JoinColumn(name = "food\_item\_id")

private FoodItem foodItem;

private int quantity;

private double totalPrice;

public Order() {

}

public Order(FoodItem foodItem, int quantity) {

this.foodItem = foodItem;

this.quantity = quantity;

this.totalPrice = foodItem.getPrice() \* quantity;

}

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public FoodItem getFoodItem() {

return foodItem;

}

public void setFoodItem(FoodItem foodItem) {

this.foodItem = foodItem;

}

public int getQuantity() {

return quantity;

}

public void setQuantity(int quantity) {

this.quantity = quantity;

}

public double getTotalPrice() {

return totalPrice;

}

public void setTotalPrice(double totalPrice) {

this.totalPrice = totalPrice;

}

public Order(Long id, FoodItem foodItem, int quantity, double totalPrice) {

super();

this.id = id;

this.foodItem = foodItem;

this.quantity = quantity;

this.totalPrice = totalPrice;

}

}

1. Repositories

package com.repo;

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

import org.springframework.stereotype.Repository;

import com.model.Admin;

@Repository

public interface AdminRepository extends JpaRepository<Admin, String> {

// Custom query methods can be added here if needed

}

package com.repo;

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

import org.springframework.stereotype.Repository;

import com.model.FoodItem;

@Repository

public interface FoodItemRepository extends JpaRepository<FoodItem, Long> {

// Custom query methods can be added here if needed

}

package com.repo;

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

import org.springframework.stereotype.Repository;

import com.model.Order;

@Repository

public interface OrderRepository extends JpaRepository<Order, Long> {

// Custom query methods can be added here if needed

}

1. Service classes

package com.service;

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

import org.springframework.stereotype.Service;

import com.model.Admin;

import com.model.FoodItem;

import com.repo.AdminRepository;

import com.repo.FoodItemRepository;

@Service

public class AdminService {

@Autowired

private AdminRepository adminRepository;

@Autowired

private FoodItemRepository foodItemRepository;

public void addFoodItem(FoodItem foodItem) {

foodItemRepository.save(foodItem);

}

public void removeFoodItem(Long id) {

foodItemRepository.deleteById(id);

}

public Admin findAdminByUsername(String username) {

return adminRepository.findById(username).orElse(null);

}

}

package com.service;

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

import org.springframework.stereotype.Service;

import com.model.FoodItem;

import com.repo.FoodItemRepository;

import java.util.List;

@Service

public class FoodItemService {

@Autowired

private FoodItemRepository foodItemRepository;

public List<FoodItem> getAllFoodItems() {

return foodItemRepository.findAll();

}

public void addFoodItem(FoodItem foodItem) {

foodItemRepository.save(foodItem);

}

}

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;

@Service

public class OrderService {

@Autowired

private OrderRepository orderRepository;

public List<Order> getAllOrders() {

return orderRepository.findAll();

}

public void placeOrder(Order order) {

orderRepository.save(order);

}

}

1. Controller classes

package com.controller;

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

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

import com.model.FoodItem;

import com.service.AdminService;

@RestController

@RequestMapping("/admin")

public class AdminController {

@Autowired

private AdminService adminService;

@PostMapping("/add-food-item")

public void addFoodItem(@RequestBody FoodItem foodItem) {

adminService.addFoodItem(foodItem);

}

@DeleteMapping("/remove-food-item/{id}")

public void removeFoodItem(@PathVariable Long id) {

adminService.removeFoodItem(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("/orders")

public class OrderController {

@Autowired

private OrderService orderService;

@GetMapping

public List<Order> getAllOrders() {

return orderService.getAllOrders();

}

@PostMapping

public void placeOrder(@RequestBody Order order) {

orderService.placeOrder(order);

}

}

package com.controller;

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

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

import com.model.FoodItem;

import com.service.FoodItemService;

import java.util.List;

@RestController

@RequestMapping("/food-items")

public class FoodItemController {

@Autowired

private FoodItemService foodItemService;

@GetMapping

public List<FoodItem> getAllFoodItems() {

return foodItemService.getAllFoodItems();

}

@PostMapping

public void addFoodItem(@RequestBody FoodItem foodItem) {

foodItemService.addFoodItem(foodItem);

}

}