***Admin Controller:***

|  |
| --- |
| package com.controller; |
|  |  |
|  | import java.util.List; |
|  |  |
|  | import javax.servlet.http.HttpServletRequest; |
|  | import javax.servlet.http.HttpSession; |
|  |  |
|  | import org.springframework.beans.factory.annotation.Autowired; |
|  | import org.springframework.stereotype.Controller; |
|  | import org.springframework.ui.Model; |
|  | import org.springframework.web.bind.annotation.GetMapping; |
|  | import org.springframework.web.bind.annotation.ModelAttribute; |
|  | import org.springframework.web.bind.annotation.PostMapping; |
|  | import org.springframework.web.bind.annotation.RequestMapping; |
|  | import org.springframework.web.bind.annotation.RequestParam; |
|  |  |
|  | import com.dao.OrderDAO; |
|  | import com.dao.ProductDAO; |
|  | import com.dao.UserDAO; |
|  | import com.entity.Order; |
|  | import com.entity.Product; |
|  | import com.entity.User; |
|  |  |
|  | @Controller |
|  | @RequestMapping("/admin") |
|  | public class AdminController { |
|  |  |
|  | @Autowired |
|  | private ProductDAO productDAO; |
|  |  |
|  | // inject |
|  | @Autowired |
|  | private UserDAO userDAO; |
|  |  |
|  | // inject |
|  | @Autowired |
|  | private OrderDAO orderDAO; |
|  |  |
|  | @GetMapping("/products") |
|  | public String products(Model theModel, HttpServletRequest request) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  | User currentUser = (User) session.getAttribute("currentUser"); |
|  |  |
|  | // get all products from DAO |
|  | List<Product> products = productDAO.getProducts(); |
|  |  |
|  | // add the products to the model |
|  | theModel.addAttribute("currentUser", currentUser); |
|  |  |
|  | // add the products to the model |
|  | theModel.addAttribute("products", products); |
|  |  |
|  | return "mange-products"; |
|  | } |
|  |  |
|  | @GetMapping("/deleteProduct") |
|  | public String deleteProduct(@RequestParam("productId") int productId, Model theModel) { |
|  |  |
|  | productDAO.deleteProduct(productId); |
|  |  |
|  | return "redirect:/admin/products"; |
|  | } |
|  |  |
|  | @GetMapping("/deleteUser") |
|  | public String deleteUser(@RequestParam("userId") int userId, Model theModel) { |
|  |  |
|  | userDAO.deleteUser(userId); |
|  |  |
|  | return "redirect:/admin/manageUsers"; |
|  | } |
|  |  |
|  | @GetMapping("/deleteOrder") |
|  | public String deleteOrder(@RequestParam("orderId") int ordereId, Model theModel) { |
|  |  |
|  | orderDAO.deleteOrder(ordereId); |
|  |  |
|  | return "redirect:/admin/manageOrders"; |
|  | } |
|  |  |
|  | @GetMapping("/manageUsers") |
|  | public String manageUsers(Model theModel) { |
|  |  |
|  | // get all users from DAO |
|  | List<User> users = userDAO.getUsers(); |
|  |  |
|  | // add the users to the model |
|  | theModel.addAttribute("users", users); |
|  |  |
|  | return "manageUsers"; |
|  | } |
|  |  |
|  | @GetMapping("/manageOrders") |
|  | public String manageOrders(Model theModel) { |
|  |  |
|  | // get all users from DAO |
|  | List<Order> orders = orderDAO.getOrder(); |
|  |  |
|  | int totalPrice = 0; |
|  |  |
|  | for (Order order : orders) { |
|  | totalPrice = totalPrice + order.getProduct().getPrice(); |
|  | } |
|  |  |
|  | // add the users to the model |
|  | theModel.addAttribute("orders", orders); |
|  |  |
|  | // add the users to the model |
|  | theModel.addAttribute("totalPrice", totalPrice); |
|  |  |
|  | return "manageOrders"; |
|  | } |
|  |  |
|  | @GetMapping("/addProdcut") |
|  | public String addProdcut() { |
|  |  |
|  |  |
|  | return "addproduct"; |
|  | } |
|  |  |
|  |  |
|  | @PostMapping("/addProductProcess") |
|  | public String addProductProcess(HttpServletRequest request, |
|  | @RequestParam("name") String name, |
|  | @RequestParam("company") String company, |
|  | @RequestParam("size") int size, |
|  | @RequestParam("price") int price, |
|  | @RequestParam("image") String image |
|  | ) { |
|  |  |
|  |  |
|  | Product product = new Product(name, company, size, price, image); |
|  | productDAO.saveProduct(product); |
|  |  |
|  | return "redirect:/admin/products"; |
|  | } |
|  |  |
|  |  |
|  | @GetMapping("/updateProduct") |
|  | public String updateProduct(@RequestParam("productId") int productId , Model theModel) { |
|  |  |
|  | // get all products from DAO |
|  | Product product = productDAO.getProduct(productId); |
|  |  |
|  | // add the users to the model |
|  | theModel.addAttribute("product", product); |
|  |  |
|  | return "update-product"; |
|  | } |
|  |  |
|  |  |
|  | @PostMapping("/updateProductProcess") |
|  | public String updateProductProcess(HttpServletRequest request, |
|  | @RequestParam("productId") int productId, |
|  | @RequestParam("name") String name, |
|  | @RequestParam("company") String company, |
|  | @RequestParam("size") int size, |
|  | @RequestParam("price") int price, |
|  | @RequestParam("image") String image |
|  | ) { |
|  |  |
|  |  |
|  | Product product = productDAO.getProduct(productId); |
|  | product.setCompany(company); |
|  | product.setSize(size); |
|  | product.setName(name); |
|  | product.setPrice(price); |
|  | product.setImage\_link(image); |
|  |  |
|  | productDAO.saveProduct(product); |
|  |  |
|  | return "redirect:/admin/products"; |
|  | } |
|  |  |
|  | } |

***HomePage Controller:***

|  |
| --- |
| package com.controller; |
|  |  |
|  | import java.util.ArrayList; |
|  | import java.util.List; |
|  |  |
|  | import javax.servlet.http.HttpServletRequest; |
|  | import javax.servlet.http.HttpServletResponse; |
|  | import javax.servlet.http.HttpSession; |
|  |  |
|  | import org.springframework.beans.factory.annotation.Autowired; |
|  | import org.springframework.stereotype.Controller; |
|  | import org.springframework.ui.Model; |
|  | import org.springframework.web.bind.annotation.GetMapping; |
|  | import org.springframework.web.bind.annotation.ModelAttribute; |
|  | import org.springframework.web.bind.annotation.PostMapping; |
|  | import org.springframework.web.bind.annotation.RequestMapping; |
|  | import org.springframework.web.bind.annotation.RequestParam; |
|  |  |
|  | import com.dao.OrderDAO; |
|  | import com.dao.ProductDAO; |
|  | import com.entity.Order; |
|  | import com.entity.Product; |
|  | import com.entity.User; |
|  |  |
|  | @Controller |
|  | @RequestMapping("/homepage") |
|  | public class HomePageController { |
|  |  |
|  | // need to inject |
|  | @Autowired |
|  | private ProductDAO productDAO; |
|  |  |
|  | @Autowired |
|  | private OrderDAO orderDAO; |
|  |  |
|  | @GetMapping("/products") |
|  | public String products(Model theModel, HttpServletRequest request) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  | User currentUser = (User) session.getAttribute("currentUser"); |
|  |  |
|  | // get all products from DAO |
|  | List<Product> products = productDAO.getProducts(); |
|  |  |
|  |  |
|  | List<Order> userOrders = orderDAO.getUserOrders(currentUser.getId()); |
|  | List<Integer> userProducts = new ArrayList<Integer>(); |
|  |  |
|  | for (Order order : userOrders) { |
|  | userProducts.add(order.getProduct().getId()); |
|  | } |
|  |  |
|  | // add the products to the model |
|  | theModel.addAttribute("products", products); |
|  | theModel.addAttribute("userProducts", userProducts); |
|  | theModel.addAttribute("currentUser", currentUser); |
|  |  |
|  | return "user-home"; |
|  | } |
|  |  |
|  | @GetMapping("/orderProcess") |
|  | public String orderProcess(Model theModel,@RequestParam("productId") int productId, HttpServletRequest request) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  | User currentUser = (User) session.getAttribute("currentUser"); |
|  | Product product = productDAO.getProduct(productId); |
|  |  |
|  | Order order = new Order(currentUser, product); |
|  |  |
|  | orderDAO.saveOrder(order); |
|  |  |
|  | theModel.addAttribute("currentUser", currentUser); |
|  |  |
|  | return "redirect:/homepage/products"; |
|  | } |
|  |  |
|  | @GetMapping("/mycart") |
|  | public String showMyCart(Model theModel, HttpServletRequest request) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  | User currentUser = (User) session.getAttribute("currentUser"); |
|  |  |
|  | // get all products from DAO |
|  | List<Order> userOrders = orderDAO.getUserOrders(currentUser.getId()); |
|  | List<Product> userProducts = new ArrayList<Product>(); |
|  |  |
|  | for (Order order : userOrders) { |
|  | userProducts.add(order.getProduct()); |
|  | } |
|  |  |
|  | int total\_price = 0; |
|  |  |
|  | for (Product product : userProducts) { |
|  | total\_price = total\_price + product.getPrice(); |
|  | } |
|  |  |
|  | theModel.addAttribute("userProducts", userProducts); |
|  | theModel.addAttribute("total\_price", total\_price); |
|  | theModel.addAttribute("currentUser", currentUser); |
|  |  |
|  | return "mycart"; |
|  | } |
|  |  |
|  | @PostMapping("/searchProducts") |
|  | public String searchProducts(HttpServletRequest request, Model theModel, @RequestParam("keySearch") String key) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  | User currentUser = (User) session.getAttribute("currentUser"); |
|  |  |
|  | System.out.println(key); |
|  | // get all products from DAO |
|  | List<Product> products = productDAO.searchProducts(key); |
|  |  |
|  |  |
|  | if (currentUser.getType() == 0) { |
|  | // get all products from DAO |
|  | List<Order> userOrders = orderDAO.getUserOrders(currentUser.getId()); |
|  | List<Integer> userProducts = new ArrayList<Integer>(); |
|  |  |
|  | for (Order order : userOrders) { |
|  | userProducts.add(order.getProduct().getId()); |
|  |  |
|  | } |
|  |  |
|  | theModel.addAttribute("userProducts", userProducts); |
|  | theModel.addAttribute("currentUser", currentUser); |
|  | } |
|  |  |
|  | // add the products to the model |
|  | theModel.addAttribute("products", products); |
|  |  |
|  |  |
|  | if (currentUser.getType() == 0) { |
|  | return "user-home"; |
|  | } |
|  |  |
|  | else { |
|  | return "mange-products"; |
|  | } |
|  |  |
|  |  |
|  | } |
|  |  |
|  | } |

***Login Controller:***

|  |
| --- |
| package com.controller; |
|  |  |
|  | import java.util.List; |
|  |  |
|  | import javax.servlet.http.HttpServletRequest; |
|  | import javax.servlet.http.HttpSession; |
|  |  |
|  | import org.springframework.beans.factory.annotation.Autowired; |
|  | import org.springframework.stereotype.Controller; |
|  | import org.springframework.ui.Model; |
|  | import org.springframework.web.bind.annotation.ModelAttribute; |
|  | import org.springframework.web.bind.annotation.PostMapping; |
|  | import org.springframework.web.bind.annotation.RequestMapping; |
|  | import org.springframework.web.bind.annotation.RequestParam; |
|  |  |
|  | import com.dao.ProductDAO; |
|  | import com.dao.UserDAO; |
|  | import com.entity.Product; |
|  | import com.entity.User; |
|  |  |
|  |  |
|  |  |
|  | @Controller |
|  | public class LoginController { |
|  |  |
|  | // inject |
|  | @Autowired |
|  | private UserDAO userDAO; |
|  |  |
|  | @RequestMapping("/login") |
|  | public String login(Model theModel) { |
|  |  |
|  | return "login"; |
|  | } |
|  |  |
|  | @RequestMapping("/register") |
|  | public String register(Model theModel) { |
|  |  |
|  | return "register"; |
|  | } |
|  |  |
|  | @PostMapping("/loginProcess") |
|  | public String loginProcess(HttpServletRequest request, @RequestParam("username") String username, |
|  | @RequestParam("password") String password) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  |  |
|  | // get all users from DAO |
|  | List<User> users = userDAO.getUsers(); |
|  |  |
|  | boolean isusesr = false; |
|  | User tempUser = null; |
|  |  |
|  |  |
|  | for (User user : users) { |
|  |  |
|  | if (user.getUsername().equals(username) && user.getPassword().equals(password)) { |
|  | isusesr = true; |
|  | tempUser = user; |
|  |  |
|  | break; |
|  | } |
|  | } |
|  |  |
|  | if (isusesr && tempUser.getType() == 0) { |
|  |  |
|  | session.setAttribute("currentUser", tempUser); |
|  | return "redirect:/homepage/products"; |
|  | } |
|  |  |
|  | else if (isusesr && tempUser.getType() == 1) { |
|  |  |
|  | session.setAttribute("currentUser", tempUser); |
|  | return "redirect:/admin/products"; |
|  | } |
|  | else |
|  | return "login"; |
|  | } |
|  |  |
|  |  |
|  | @PostMapping("/registerProcess") |
|  | public String registerProcess(@RequestParam("username") String username, |
|  | @RequestParam("age") String age, |
|  | @RequestParam("password") String password) { |
|  |  |
|  | User user = new User(username, password, Integer.parseInt(age)); |
|  | userDAO.saveUser(user); |
|  |  |
|  | return "login"; |
|  | } |
|  |  |
|  | } |

***User Controller:***

|  |
| --- |
| package com.controller; |
|  |  |
|  | import java.util.List; |
|  |  |
|  | import javax.servlet.http.HttpServletRequest; |
|  | import javax.servlet.http.HttpSession; |
|  |  |
|  | import org.springframework.beans.factory.annotation.Autowired; |
|  | import org.springframework.stereotype.Controller; |
|  | import org.springframework.ui.Model; |
|  | import org.springframework.web.bind.annotation.ModelAttribute; |
|  | import org.springframework.web.bind.annotation.PostMapping; |
|  | import org.springframework.web.bind.annotation.RequestMapping; |
|  | import org.springframework.web.bind.annotation.RequestParam; |
|  |  |
|  | import com.dao.ProductDAO; |
|  | import com.dao.UserDAO; |
|  | import com.entity.Product; |
|  | import com.entity.User; |
|  |  |
|  |  |
|  |  |
|  | @Controller |
|  | public class LoginController { |
|  |  |
|  | // inject |
|  | @Autowired |
|  | private UserDAO userDAO; |
|  |  |
|  | @RequestMapping("/login") |
|  | public String login(Model theModel) { |
|  |  |
|  | return "login"; |
|  | } |
|  |  |
|  | @RequestMapping("/register") |
|  | public String register(Model theModel) { |
|  |  |
|  | return "register"; |
|  | } |
|  |  |
|  | @PostMapping("/loginProcess") |
|  | public String loginProcess(HttpServletRequest request, @RequestParam("username") String username, |
|  | @RequestParam("password") String password) { |
|  |  |
|  | HttpSession session = request.getSession(true); |
|  |  |
|  | // get all users from DAO |
|  | List<User> users = userDAO.getUsers(); |
|  |  |
|  | boolean isusesr = false; |
|  | User tempUser = null; |
|  |  |
|  |  |
|  | for (User user : users) { |
|  |  |
|  | if (user.getUsername().equals(username) && user.getPassword().equals(password)) { |
|  | isusesr = true; |
|  | tempUser = user; |
|  |  |
|  | break; |
|  | } |
|  | } |
|  |  |
|  | if (isusesr && tempUser.getType() == 0) { |
|  |  |
|  | session.setAttribute("currentUser", tempUser); |
|  | return "redirect:/homepage/products"; |
|  | } |
|  |  |
|  | else if (isusesr && tempUser.getType() == 1) { |
|  |  |
|  | session.setAttribute("currentUser", tempUser); |
|  | return "redirect:/admin/products"; |
|  | } |
|  | else |
|  | return "login"; |
|  | } |
|  |  |
|  |  |
|  | @PostMapping("/registerProcess") |
|  | public String registerProcess(@RequestParam("username") String username, |
|  | @RequestParam("age") String age, |
|  | @RequestParam("password") String password) { |
|  |  |
|  | User user = new User(username, password, Integer.parseInt(age)); |
|  | userDAO.saveUser(user); |
|  |  |
|  | return "login"; |
|  | } |
|  |  |
|  | } |