**PHASE III – FINAL ASSESMENT**

**SPORTY SHOES**

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**Source Codes:**

1. **Online/SportyShoesApplication.java**

**package com.online;**

**import org.springframework.boot.SpringApplication;**

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

**@SpringBootApplication**

**public class SportyShoesApplication {**

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

**SpringApplication.run(SportyShoesApplication.class, args);**

**}**

**}**

1. **Online/Java Controller**

**a. Admin Controller.java**

**package com.online.controller;**

**import java.math.BigDecimal;**

**import java.util.HashMap;**

**import java.util.List;**

**import javax.servlet.http.HttpSession;**

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

**import org.springframework.stereotype.Controller;**

**import org.springframework.ui.ModelMap;**

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

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

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

**import com.online.model.Admin;**

**import com.online.model.Category;**

**import com.online.model.Product;**

**import com.online.model.Purchase;**

**import com.online.model.PurchaseItem;**

**import com.online.model.User;**

**import com.online.service.AdminService;**

**import com.online.service.CategoryService;**

**import com.online.service.ProductService;**

**import com.online.service.PurchaseItemService;**

**import com.online.service.PurchaseService;**

**import com.online.service.UserService;**

**@Controller**

**public class AdminController {**

**@Autowired**

**private AdminService adminService;**

**@Autowired**

**private CategoryService categoryService;**

**@Autowired**

**private ProductService productService;**

**@Autowired**

**private PurchaseService purchaseService;**

**@Autowired**

**private PurchaseItemService purchaseItemService;**

**@Autowired**

**private UserService userService;**

**@RequestMapping(value = "/adminlogin", method = RequestMethod.GET)**

**public String login(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**map.addAttribute("pageTitle", "ADMIN LOGIN");**

**return "login";**

**}**

**@RequestMapping(value = "/adminloginaction", method = RequestMethod.POST)**

**public String loginAction(ModelMap map, javax.servlet.http.HttpServletRequest request,**

**@RequestParam(value="admin\_id", required=true) String adminId,**

**@RequestParam(value="admin\_pwd", required=true) String adminPwd)**

**{**

**Admin admin = adminService.authenticate(adminId, adminPwd);**

**if (admin == null) {**

**map.addAttribute("adminerrlogmessage", "Admin login failed");**

**return "login";**

**}**

**// store admin id in session**

**HttpSession session = request.getSession();**

**session.setAttribute("admin\_id", admin.getID());**

**return "admin/dashboard";**

**}**

**@RequestMapping(value = "/admindashboard", method = RequestMethod.GET)**

**public String dashboard(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**map.addAttribute("pageTitle", "ADMIN DASHBOARD");**

**return "admin/dashboard";**

**}**

**@RequestMapping(value = "/adminchangepassword", method = RequestMethod.GET)**

**public String changePwd(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**Admin admin = adminService.getAdminById((Long) session.getAttribute("admin\_id"));**

**map.addAttribute("admin", admin);**

**map.addAttribute("pageTitle", "ADMIN CHANGE PASSWORD");**

**return "admin/change-password";**

**}**

**@RequestMapping(value = "/adminchangepwdaction", method = RequestMethod.POST)**

**public String updatePassword(ModelMap map, @RequestParam(value="pwd", required=true) String pwd,**

**@RequestParam(value="pwd2", required=true) String pwd2,**

**javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**if (pwd == null || pwd2 == null || pwd.equals("") || pwd2.equals("")) {**

**map.addAttribute("error", "Error , Incomplete passwords submitted.");**

**return "admin/change-password";**

**}**

**if (!pwd.equals(pwd2)) {**

**map.addAttribute("error", "Error , Passwords do not match.");**

**return "admin/change-password";**

**}**

**Admin admin = adminService.getAdminById((Long) session.getAttribute("admin\_id"));**

**admin.setAdminPwd(pwd);**

**adminService.updatePwd(admin);**

**return "admin/dashboard";**

**}**

**@RequestMapping(value = "/adminproducts", method = RequestMethod.GET)**

**public String products(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**List<Product> list = productService.listAll();**

**// use a MAP to link category names to each product in list**

**HashMap<Long, String> mapCats = new HashMap<Long, String>();**

**for(Product product: list) {**

**Category category = categoryService.getCategoryById(product.getCategoryId());**

**if (category != null)**

**mapCats.put(product.getID(), category.getName());**

**}**

**map.addAttribute("list", list);**

**map.addAttribute("mapCats", mapCats);**

**map.addAttribute("pageTitle", "ADMIN SETUP PRODUCTS");**

**return "admin/products";**

**}**

**@RequestMapping(value = "/admincategories", method = RequestMethod.GET)**

**public String categories(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**List<Category> list = categoryService.getAllCategories();**

**map.addAttribute("list", list);**

**map.addAttribute("pageTitle", "ADMIN SETUP PRODUCT CATEGORIES");**

**return "admin/categories";**

**}**

**@RequestMapping(value = "/adminmembers", method = RequestMethod.GET)**

**public String members(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**List<User> list = userService.getAllUsers();**

**map.addAttribute("list", list);**

**map.addAttribute("pageTitle", "ADMIN BROWSE MEMBERS");**

**return "admin/members";**

**}**

**@RequestMapping(value = "/adminpurchases", method = RequestMethod.GET)**

**public String purchases(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**List<Purchase> list = purchaseService.getAllItems();**

**BigDecimal total = new BigDecimal(0.0);**

**for(Purchase purchase: list) {**

**total = total.add(purchase.getTotal());**

**}**

**// use MAPs to mape users to each purchase and item names to each purchase item row**

**HashMap<Long, String> mapItems = new HashMap<Long, String>();**

**HashMap<Long, String> mapUsers = new HashMap<Long, String>();**

**for(Purchase purchase: list) {**

**total = total.add(purchase.getTotal());**

**User user = userService.getUserById(purchase.getUserId());**

**if (user != null)**

**mapUsers.put(purchase.getID(), user.getFname() + " " + user.getLname());**

**List<PurchaseItem> itemList = purchaseItemService.getAllItemsByPurchaseId(purchase.getID());**

**StringBuilder sb = new StringBuilder("");**

**for(PurchaseItem item: itemList) {**

**Product product = productService.getProductById(item.getProductId());**

**if (product != null)**

**sb.append(product.getName() + ", " +**

**item.getQty() + " units @" + item.getRate() + " = "**

**+ item.getPrice() + "<br>");**

**}**

**mapItems.put(purchase.getID(), sb.toString());**

**}**

**map.addAttribute("totalAmount", total);**

**map.addAttribute("list", list);**

**map.addAttribute("mapItems", mapItems);**

**map.addAttribute("mapUsers", mapUsers);**

**map.addAttribute("pageTitle", "ADMIN PURCHASES REPORT");**

**return "admin/purchases";**

**}**

**@RequestMapping(value = "/admindeletecat", method = RequestMethod.GET)**

**public String deleteCategory(ModelMap map, @RequestParam(value="id", required=true) String id,**

**javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**long idValue = Long.parseLong(id);**

**Category category = new Category();**

**if (idValue > 0) {**

**categoryService.deleteCategory(idValue);**

**}**

**return "redirect:admincategories";**

**}**

**@RequestMapping(value = "/admineditcat", method = RequestMethod.GET)**

**public String editCategory(ModelMap map, @RequestParam(value="id", required=true) String id,**

**javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**long idValue = Long.parseLong(id);**

**Category category = new Category();**

**if (idValue > 0) {**

**category = categoryService.getCategoryById(idValue);**

**} else {**

**category.setID(0);**

**}**

**map.addAttribute("category", category);**

**map.addAttribute("pageTitle", "ADMIN EDIT PRODUCT CATEGORY");**

**return "admin/edit-category";**

**}**

**@RequestMapping(value = "/admineditcataction", method = RequestMethod.POST)**

**public String updateCategory(ModelMap map, @RequestParam(value="id", required=true) String id,**

**@RequestParam(value="name", required=true) String name,**

**javax.servlet.http.HttpServletRequest request)**

**{**

**long idValue = Long.parseLong(id);**

**if (name == null || name.equals("") ) {**

**map.addAttribute("error", "Error, A category name must be specified");**

**return "redirect:admineditcat?id="+id;**

**}**

**Category category = new Category();**

**category.setID(idValue);**

**category.setName(name);**

**categoryService.updateCategory(category);**

**return "redirect:admincategories";**

**}**

**@RequestMapping(value = "/admindeleteproduct", method = RequestMethod.GET)**

**public String deleteProduct(ModelMap map, @RequestParam(value="id", required=true) String id,**

**javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**long idValue = Long.parseLong(id);**

**Product product = new Product();**

**if (idValue > 0) {**

**productService.deleteProduct(idValue);**

**}**

**return "redirect:adminproducts";**

**}**

**@RequestMapping(value = "/admineditproduct", method = RequestMethod.GET)**

**public String editProduct(ModelMap map, @RequestParam(value="id", required=true) String id,**

**javax.servlet.http.HttpServletRequest request)**

**{**

**// check if session is still alive**

**HttpSession session = request.getSession();**

**if (session.getAttribute("admin\_id") == null) {**

**return "login";**

**}**

**long idValue = Long.parseLong(id);**

**Product product = new Product();**

**if (idValue > 0) {**

**product = productService.getProductById(idValue);**

**} else {**

**product.setID(0);**

**product.setCategoryId(0);**

**}**

**String dropDown = categoryService.getCategoriesDropDown(product.getCategoryId());**

**map.addAttribute("product", product);**

**map.addAttribute("catDropdown", dropDown);**

**map.addAttribute("pageTitle", "ADMIN EDIT PRODUCT");**

**return "admin/edit-product";**

**}**

**@RequestMapping(value = "/admineditproductaction", method = RequestMethod.POST)**

**public String updateProduct(ModelMap map, javax.servlet.http.HttpServletRequest request,**

**@RequestParam(value="id", required=true) String id,**

**@RequestParam(value="name", required=true) String name,**

**@RequestParam(value="price", required=true) String price,**

**@RequestParam(value="category", required=true) String categoryId)**

**{**

**long idValue = Long.parseLong(id);**

**long categoryIdValue = Long.parseLong(categoryId);**

**BigDecimal priceValue = new BigDecimal(0.0);**

**if (name == null || name.equals("") ) {**

**map.addAttribute("error", "Error, A product name must be specified");**

**return "redirect:admineditproduct?id="+id;**

**}**

**try {**

**priceValue = new BigDecimal(price);**

**} catch (Exception ex) {**

**map.addAttribute("error", "Error, Price is invalid");**

**return "redirect:admineditproduct?id="+id;**

**}**

**Product product = new Product();**

**product.setID(idValue);**

**product.setCategoryId(Long.parseLong(categoryId));**

**product.setName(name);**

**product.setPrice(priceValue);**

**productService.updateProduct(product);**

**return "redirect:adminproducts";**

**}**

**@RequestMapping(value = "/adminlogout", method = RequestMethod.GET)**

**public String logout(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**HttpSession session = request.getSession();**

**session.invalidate();**

**return "login";**

**}**

**}**

**b. Cart Controller.java:**

**package com.online.controller;**

**import java.math.BigDecimal;**

**import java.util.ArrayList;**

**import java.util.Calendar;**

**import java.util.List;**

**import javax.servlet.http.HttpSession;**

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

**import org.springframework.stereotype.Controller;**

**import org.springframework.ui.ModelMap;**

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

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

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

**import com.online.model.CartItem;**

**import com.online.model.Product;**

**import com.online.model.Purchase;**

**import com.online.model.PurchaseItem;**

**import com.online.service.ProductService;**

**import com.online.service.PurchaseItemService;**

**import com.online.service.PurchaseService;**

**@Controller**

**public class CartController {**

**@Autowired**

**private ProductService productService;**

**@Autowired**

**private PurchaseService purchaseService;**

**@Autowired**

**private PurchaseItemService purchaseItemService;**

**@SuppressWarnings("unchecked")**

**@RequestMapping(value = "/cart", method = RequestMethod.GET)**

**public String cart(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**map.addAttribute("error", "Error, You need to login before adding items to cart");**

**} else {**

**// if cart is already in session then retrieve it else create a new cart list and**

**// save it to session**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**// get total of all cart items**

**BigDecimal totalValue = getCartValue(cartItems);**

**map.addAttribute("cartValue", totalValue);**

**map.addAttribute("cartItems", cartItems);**

**}**

**map.addAttribute("pageTitle", "SPORTY SHOES - YOUR CART");**

**return "cart";**

**}**

**@SuppressWarnings("unchecked")**

**@RequestMapping(value = "/cartadditem", method = RequestMethod.GET)**

**public String cartAddItem(ModelMap model, javax.servlet.http.HttpServletRequest request,**

**@RequestParam(value="id", required=true) String productId)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**model.addAttribute("error", "Error, You neems to cart");**

**} else {**

**long idValue = Long.parseLong(productId);**

**// if cart is already in session then retrieve it else create a new cart list and**

**// save it to session**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**if (isItemInCart(cartItems, idValue)) {**

**System.out.println("error already exists");**

**model.addAttribute("error", "Error, You need =ing items to cart");**

**} else {**

**Product product = productService.getProductById(idValue);**

**CartItem item = new CartItem();**

**item.setProductId(idValue);**

**item.setQty(1);**

**item.setRate(product.getPrice());**

**BigDecimal dprice = item.getRate().multiply(new BigDecimal(item.getQty()));**

**item.setPrice(dprice);**

**item.setName(product.getName());**

**cartItems.add(item);**

**session.setAttribute("cart\_items", cartItems);**

**}**

**}**

**return "forward:cart";**

**}**

**@RequestMapping(value = "/cartdeleteitem", method = RequestMethod.GET)**

**public String cartDeleteItem(ModelMap map, javax.servlet.http.HttpServletRequest request,**

**@RequestParam(value="id", required=true) String id)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**map.addAttribute("error", "Error, You need to login before deleting items from cart");**

**} else {**

**long idValue = Long.parseLong(id);**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**for(CartItem item: cartItems) {**

**if (item.getProductId() == idValue) {**

**cartItems.remove(item);**

**session.setAttribute("cart\_items", cartItems);**

**break;**

**}**

**}**

**}**

**return "redirect:cart";**

**}**

**@RequestMapping(value = "/checkout", method = RequestMethod.GET)**

**public String checkout(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**map.addAttribute("error", "Error, You need to login before checking out");**

**} else {**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**BigDecimal totalValue = getCartValue(cartItems);**

**map.addAttribute("cartValue", totalValue);**

**map.addAttribute("cartItems", cartItems);**

**}**

**map.addAttribute("pageTitle", "SPORTY SHOES - CHECKOUT");**

**return "checkout";**

**}**

**@RequestMapping(value = "/completepurchase", method = RequestMethod.GET)**

**public String completePurchase(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**map.addAttribute("error", "Error, You need to login before completing purchase");**

**} else {**

**// take items from cart and update the databae**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**BigDecimal totalValue = getCartValue(cartItems);**

**long userId = (Long) session.getAttribute("user\_id") ;**

**Purchase purchase = new Purchase();**

**purchase.setUserId(userId);**

**purchase.setDate(Calendar.getInstance().getTime());**

**purchase.setTotal(totalValue);**

**long purchaseId = purchaseService.updatePurchase(purchase);**

**for(CartItem item: cartItems) {**

**PurchaseItem pItem = new PurchaseItem();**

**pItem.setPurchaseId(purchaseId);**

**pItem.setProductId(item.getProductId());**

**pItem.setUserId(userId);**

**pItem.setRate(item.getRate());**

**pItem.setQty(item.getQty());**

**pItem.setPrice(item.getPrice());**

**purchaseItemService.updateItem(pItem);**

**}**

**map.addAttribute("cartValue", totalValue);**

**map.addAttribute("cartItems", cartItems);**

**}**

**return "redirect:confirm";**

**}**

**@RequestMapping(value = "/gateway", method = RequestMethod.GET)**

**public String gateway(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**map.addAttribute("error", "Error, You need to login before making payment");**

**} else {**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**BigDecimal totalValue = getCartValue(cartItems);**

**map.addAttribute("cartValue", totalValue);**

**map.addAttribute("cartItems", cartItems);**

**}**

**map.addAttribute("pageTitle", "SPORTY SHOES - PAYMENT GATEWAY");**

**return "gateway";**

**}**

**@RequestMapping(value = "/confirm", method = RequestMethod.GET)**

**public String confirm(ModelMap map, javax.servlet.http.HttpServletRequest request)**

**{**

**// check if user is logged in**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**map.addAttribute("error", "Error, You need to login before completing the purchase");**

**} else {**

**// clear items from cart as order has completed**

**List<CartItem> cartItems = new ArrayList<CartItem>();**

**if (session.getAttribute("cart\_items") != null)**

**cartItems = (List<CartItem>) session.getAttribute("cart\_items");**

**BigDecimal totalValue = getCartValue(cartItems);**

**map.addAttribute("cartValue", totalValue);**

**cartItems.clear();**

**session.setAttribute("cart\_items", null);**

**}**

**map.addAttribute("pageTitle", "SPORTY SHOES - PURCHASE CONFIRMATION");**

**return "confirm";**

**}**

**private boolean isItemInCart(List<CartItem> list, long item) {**

**boolean retVal = false;**

**for(CartItem thisItem: list) {**

**if (item == thisItem.getProductId()) {**

**retVal = true;**

**break;**

**}**

**}**

**return retVal;**

**}**

**private BigDecimal getCartValue(List<CartItem> list) {**

**BigDecimal total = new BigDecimal(0.0);**

**for(CartItem item: list) {**

**BigDecimal dprice = item.getRate().multiply(new BigDecimal(item.getQty()));**

**total= total.add(dprice);**

**}**

**return total;**

**}**

**}**

**c. DashboardController:**

**package com.online.controller;**

**import org.springframework.stereotype.Controller;**

**import org.springframework.ui.ModelMap;**

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

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

**@Controller**

**public class DashboardController {**

**@RequestMapping(value = "/dashboard", method = RequestMethod.GET)**

**public String dashboard(ModelMap map)**

**{**

**map.addAttribute("pageTitle", "SPORTY SHOES - DASHBOARD");**

**return "dashboard";**

**}**

**}**

**d. HomeController.java:**

**package com.online.controller;**

**import java.util.HashMap;**

**import java.util.List;**

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

**import org.springframework.stereotype.Controller;**

**import org.springframework.ui.Model;**

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

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

**import com.online.model.\*;**

**import com.online.service.CategoryService;**

**import com.online.service.ProductService;**

**@Controller**

**public class HomeController {**

**@Autowired**

**private ProductService service;**

**@Autowired**

**private CategoryService categoryService;**

**@RequestMapping(value = {"/", "/home"})**

**public String viewHomePage(Model model) {**

**List<Product> list = service.listAll();**

**HashMap<Long, String> mapCats = new HashMap<Long, String>();**

**for(Product product: list) {**

**Category category = categoryService.getCategoryById(product.getCategoryId());**

**if (category != null)**

**mapCats.put(product.getID(), category.getName());**

**}**

**List<Category> categorylist = categoryService.getAllCategories();**

**model.addAttribute("categorylist", categorylist);**

**model.addAttribute("mapCats", mapCats);**

**model.addAttribute("list", list);**

**model.addAttribute("pageTitle", "SPORTY SHOES - HOMEPAGE");**

**return "index";**

**}**

**@RequestMapping(value = {"/bycategory"})**

**public String viewCategory(Model model, @RequestParam(value="categoryname", required=true) String categoryname) {**

**List<Product> list = service.listAll();**

**HashMap<Long, String> mapCats = new HashMap<Long, String>();**

**for(Product product: list) {**

**Category category = categoryService.getCategoryById(product.getCategoryId());**

**if (category != null)**

**mapCats.put(product.getID(), category.getName());**

**}**

**List<Category> categorylist = categoryService.getAllCategories();**

**model.addAttribute("categorylist", categorylist);**

**model.addAttribute("mapCats", mapCats);**

**model.addAttribute("list", list);**

**model.addAttribute("categoryname", categoryname);**

**model.addAttribute("pageTitle", "SPORTY SHOES - HOMEPAGE");**

**return "index";**

**}**

**}**

**e.MemberController.java**

**package com.online.controller;**

**import javax.servlet.http.HttpSession;**

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

**import org.springframework.stereotype.Controller;**

**import org.springframework.ui.ModelMap;**

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

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

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

**import com.online.model.\*;**

**import com.online.service.\*;**

**@Controller**

**public class MemberController {**

**@Autowired**

**private UserService userService;**

**@RequestMapping(value = "/login", method = RequestMethod.GET)**

**public String login(ModelMap map)**

**{**

**map.addAttribute("pageTitle", "SPORTY SHOES - MEMBER LOGIN");**

**return "login";**

**}**

**@RequestMapping(value = "/loginaction", method = RequestMethod.POST)**

**public String loginAction(ModelMap map,  HttpSession session,**

**@RequestParam(value="email\_id", required=true) String emailId,**

**@RequestParam(value="pwd", required=true) String pwd)**

**{**

**User user = userService.authenticate(emailId, pwd);**

**if (user == null) {**

**map.addAttribute("error", "Login failed");**

**return "login";**

**}**

**session.setAttribute("user\_id", user.getID());**

**session.setAttribute("user\_name", user.getFname());**

**return "redirect:dashboard";**

**}**

**@RequestMapping(value = "/signup", method = RequestMethod.GET)**

**public String signup(ModelMap map)**

**{**

**map.addAttribute("pageTitle", "SPORTY SHOES - MEMBER REGISTRATION");**

**return "register";**

**}**

**@RequestMapping(value = "/signupaction", method = RequestMethod.POST)**

**public String signupAction(ModelMap map,  javax.servlet.http.HttpServletRequest request,**

**@RequestParam(value="email\_id", required=true) String emailId,**

**@RequestParam(value="pwd", required=true) String pwd,**

**@RequestParam(value="pwd2", required=true) String pwd2,**

**@RequestParam(value="fname", required=true) String fname,**

**@RequestParam(value="lname", required=true) String lname,**

**@RequestParam(value="age", required=true) String age,**

**@RequestParam(value="address", required=true) String address)**

**{**

**if (emailId == null || emailId.equals("")) {**

**map.addAttribute("error", "Email id is required.");**

**return "register";**

**}**

**if (pwd == null || pwd2 == null || pwd.equals("") || pwd2.equals("")) {**

**map.addAttribute("error", "Error , Incomplete passwords submitted.");**

**return "register";**

**}**

**if (!pwd.equals(pwd2)) {**

**map.addAttribute("error", "Error , Passwords do not match.");**

**return "register";**

**}**

**if (fname == null || fname.equals("")) {**

**map.addAttribute("error", "First name is required.");**

**return "register";**

**}**

**if (lname == null || lname.equals("")) {**

**map.addAttribute("error", "Last name is required.");**

**return "register";**

**}**

**if (age == null || age.equals("")) {**

**age = "0";**

**}**

**User user = userService.getUserByEmailId(emailId);**

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

**map.addAttribute("error", "This email id already exists.");**

**return "register";**

**}**

**user = new User();**

**user.setID(0);**

**user.setEmail(emailId);**

**user.setFname(fname);**

**user.setLname(lname);**

**user.setAge(Integer.parseInt(age));**

**user.setAddress(address);**

**user.setPwd(pwd);**

**userService.updateUser(user);**

**return "redirect:registerconfirm";**

**}**

**@RequestMapping(value = "/registerconfirm", method = RequestMethod.GET)**

**public String registerConfirm(ModelMap map)**

**{**

**return "register-confirm";**

**}**

**@RequestMapping(value = "/editprofile", method = RequestMethod.GET)**

**public String editProfile(ModelMap map, HttpSession session)**

**{**

**if (session.getAttribute("user\_id") == null) {**

**return "login";**

**}**

**User user = userService.getUserById((Long) session.getAttribute("user\_id"));**

**map.addAttribute("pageTitle", "SPORTY SHOES - MEMBER EDIT PROFILE");**

**map.addAttribute("user", user);**

**return "edit-profile";**

**}**

**@RequestMapping(value = "/editprofileaction", method = RequestMethod.POST)**

**public String editProfileAction(ModelMap map,**

**javax.servlet.http.HttpServletRequest request,**

**@RequestParam(value="user\_id", required=true) String userId,**

**@RequestParam(value="pwd", required=true) String pwd,**

**@RequestParam(value="pwd2", required=true) String pwd2,**

**@RequestParam(value="fname", required=true) String fname,**

**@RequestParam(value="lname", required=true) String lname,**

**@RequestParam(value="age", required=true) String age,**

**@RequestParam(value="address", required=true) String address)**

**{**

**HttpSession session = request.getSession();**

**if (session.getAttribute("user\_id") == null) {**

**return "login";**

**}**

**User user = userService.getUserById((Long) session.getAttribute("user\_id"));**

**map.addAttribute("user", user);**

**if (pwd == null || pwd2 == null || pwd.equals("") || pwd2.equals("")) {**

**map.addAttribute("error", "Error , Incomplete passwords submitted.");**

**return "edit-profile";**

**}**

**if (!pwd.equals(pwd2)) {**

**map.addAttribute("error", "Error , Passwords do not match.");**

**return "edit-profile";**

**}**

**if (fname == null || fname.equals("")) {**

**map.addAttribute("error", "First name is required.");**

**return "edit-profile";**

**}**

**if (lname == null || lname.equals("")) {**

**map.addAttribute("error", "Last name is required.");**

**return "edit-profile";**

**}**

**if (age == null || age.equals("")) {**

**age = "0";**

**}**

**user.setFname(fname);**

**user.setLname(lname);**

**user.setAge(Integer.parseInt(age));**

**user.setAddress(address);**

**user.setPwd(pwd);**

**userService.updateUser(user);**

**return "redirect:dashboard";**

**}**

**@RequestMapping(value = "/logout", method = RequestMethod.GET)**

**public String logout(ModelMap map, HttpSession session)**

**{**

**session.invalidate();**

**return "redirect:home";**

**}**

**}**

**f.purchasecontroller.java**

**package com.online.controller;**

**import java.math.BigDecimal;**

**import java.util.HashMap;**

**import java.util.List;**

**import javax.servlet.http.HttpSession;**

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

**import org.springframework.stereotype.Controller;**

**import org.springframework.ui.ModelMap;**

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

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

**import com.online.model.Product;**

**import com.online.model.Purchase;**

**import com.online.model.PurchaseItem;**

**import com.online.service.ProductService;**

**import com.online.service.PurchaseItemService;**

**import com.online.service.PurchaseService;**

**@Controller**

**public class PurchaseController {**

**@Autowired**

**private ProductService productService;**

**@Autowired**

**private PurchaseService purchaseService;**

**@Autowired**

**private PurchaseItemService purchaseItemService;**

**@RequestMapping(value = "/memberpurchases", method = RequestMethod.GET)**

**public String memberpurchases(ModelMap map, HttpSession session)**

**{**

**if (session.getAttribute("user\_id") == null) {**

**return "login";**

**}**

**long userId = (Long) session.getAttribute("user\_id");**

**List<Purchase> list = purchaseService.getAllItemsByUserId(userId);**

**BigDecimal total = new BigDecimal(0.0);**

**// map purchase items to each purchase for display**

**HashMap<Long, String> mapItems = new HashMap<Long, String>();**

**for(Purchase purchase: list) {**

**total = total.add(purchase.getTotal());**

**List<PurchaseItem> itemList = purchaseItemService.getAllItemsByPurchaseId(purchase.getID());**

**StringBuilder sb = new StringBuilder("");**

**for(PurchaseItem item: itemList) {**

**Product product = productService.getProductById(item.getProductId());**

**if (product != null) {**

**sb.append(product.getName() + ", " +**

**item.getQty() + " units @" + item.getRate() + " = "**

**+ item.getPrice() + "<br>");**

**}**

**}**

**mapItems.put(purchase.getID(), sb.toString());**

**}**

**map.addAttribute("totalAmount", total);**

**map.addAttribute("list", list);**

**map.addAttribute("mapItems", mapItems);**

**map.addAttribute("pageTitle", "SPORTY SHOES - YOUR ORDERS");**

**return "purchases";**

**}**

**}**

1. **Online/Model:**

**a. Admin.java**

package com.online.model;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name = "admin")

public class Admin {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

@Column(name = "ID")

private long ID;

@Column(name = "admin\_id")

private String adminId;

@Column(name = "admin\_pwd")

private String pwd;

public Admin(long iD, String adminId, String pwd) {

super();

ID = iD;

this.adminId = adminId;

this.pwd = pwd;

}

public Admin() {

super();

}

public long getID() {

return ID;

}

public void setID(long iD) {

ID = iD;

}

public String getAdminId() {

return adminId;

}

public void setAdminId(String adminId) {

this.adminId = adminId;

}

public String getPwd() {

return pwd;

}

public void setAdminPwd(String pwd) {

this.pwd = pwd;

}

}

**b.CartItem.java**

**package com.online.model;**

**import java.math.BigDecimal;**

**public class CartItem {**

**private long productId;**

**private String name;**

**private BigDecimal rate;**

**private BigDecimal price;**

**private int qty;**

**public long getProductId() {**

**return this.productId;**

**}**

**public String getName() {**

**return this.name;**

**}**

**public BigDecimal getPrice() {**

**return this.price;**

**}**

**public BigDecimal getRate() {**

**return this.rate;**

**}**

**public int getQty() {**

**return this.qty;**

**}**

**public void setProductId(long id) {**

**this.productId = id;**

**}**

**public void setName(String value) {**

**this.name = value;**

**}**

**public void setPrice(BigDecimal value) {**

**this.price = value;**

**}**

**public void setRate(BigDecimal value) {**

**this.rate = value;**

**}**

**public void setQty(int value) {**

**this.qty = value;**

**}**

**}**

**c. Category.java**

**package com.online.model;**

**import javax.persistence.Column;**

**import javax.persistence.Entity;**

**import javax.persistence.GeneratedValue;**

**import javax.persistence.GenerationType;**

**import javax.persistence.Id;**

**import javax.persistence.Table;**

**@Entity**

**@Table(name = "category")**

**public class Category {**

**@Id**

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

**@Column(name = "ID")**

**private long ID;**

**@Column(name = "name")**

**private String name;**

**public long getID() {**

**return this.ID;**

**}**

**public String getName() {**

**return this.name;**

**}**

**public void setID(long id) {**

**this.ID = id;**

**}**

**public void setName(String value) {**

**this.name = value;**

**}**

**}**

**d. Product.java:**

**package com.online.model;**

**import java.math.BigDecimal;**

**import java.time.LocalDate;**

**import javax.persistence.Column;**

**import javax.persistence.Entity;**

**import javax.persistence.GeneratedValue;**

**import javax.persistence.GenerationType;**

**import javax.persistence.Id;**

**import javax.persistence.Table;**

**@Entity**

**@Table(name = "eproduct")**

**public class Product {**

**@Id**

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

**@Column(name = "ID")**

**private long ID;**

**@Column(name = "name")**

**private String name;**

**@Column(name = "price")**

**private BigDecimal price;**

**@Column(name = "date\_added")**

**private LocalDate dateAdded;**

**@Column(name = "category\_id")**

**private long categoryId;**

**public long getID() {**

**return this.ID;**

**}**

**public String getName() {**

**return this.name;**

**}**

**public BigDecimal getPrice() {**

**return this.price;**

**}**

**public long getCategoryId() {**

**return this.categoryId;**

**}**

**public LocalDate getDateAdded() {**

**return this.dateAdded;**

**}**

**public void setID(long id) {**

**this.ID = id;**

**}**

**public void setName(String value) {**

**this.name = value;**

**}**

**public void setPrice(BigDecimal value) {**

**this.price = value;**

**}**

**public void setCategoryId(long value) {**

**this.categoryId = value;**

**}**

**public void setDateAdded(LocalDate date) {**

**this.dateAdded = date;**

**}**

**}**

**e. Purchase.java:**

**package com.online.model;**

**import java.math.BigDecimal;**

**import java.util.Date;**

**import javax.persistence.Column;**

**import javax.persistence.Entity;**

**import javax.persistence.GeneratedValue;**

**import javax.persistence.GenerationType;**

**import javax.persistence.Id;**

**import javax.persistence.Table;**

**@Entity**

**@Table(name = "purchases")**

**public class Purchase {**

**@Id**

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

**@Column(name = "ID")**

**private long ID;**

**@Column(name = "user\_id")**

**private long userId;**

**@Column(name = "date")**

**private Date date;**

**@Column(name = "gross\_total")**

**private BigDecimal total;**

**public long getID() {**

**return this.ID;**

**}**

**public long getUserId() {**

**return this.userId;**

**}**

**public BigDecimal getTotal() {**

**return this.total;**

**}**

**public Date getDate() {**

**return this.date;**

**}**

**public void setID(long id) {**

**this.ID = id;**

**}**

**public void setUserId(long value) {**

**this.userId = value;**

**}**

**public void setTotal(BigDecimal value) {**

**this.total = value;**

**}**

**public void setDate(Date date) {**

**this.date = date;**

**}**

**}**

**f. PurchaseItems.java:**

**package com.online.model;**

**import java.math.BigDecimal;**

**import javax.persistence.Column;**

**import javax.persistence.Entity;**

**import javax.persistence.GeneratedValue;**

**import javax.persistence.GenerationType;**

**import javax.persistence.Id;**

**import javax.persistence.Table;**

**@Entity**

**@Table(name = "purchase\_items")**

**public class PurchaseItem {**

**@Id**

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

**@Column(name = "ID")**

**private long ID;**

**@Column(name = "purchase\_id")**

**private long purchaseId;**

**@Column(name = "product\_id")**

**private long productId;**

**@Column(name = "user\_id")**

**private long userId;**

**@Column(name = "rate")**

**private BigDecimal rate;**

**@Column(name = "qty")**

**private int qty;**

**@Column(name = "price")**

**private BigDecimal price;**

**public long getID() {**

**return this.ID;**

**}**

**public long getPurchaseId() {**

**return this.purchaseId;**

**}**

**public long getProductId() {**

**return this.productId;**

**}**

**public long getUserId() {**

**return this.userId;**

**}**

**public BigDecimal getRate() {**

**return this.rate;**

**}**

**public int getQty() {**

**return this.qty;**

**}**

**public BigDecimal getPrice() {**

**return this.price;**

**}**

**public void setID(long id) {**

**this.ID = id;**

**}**

**public void setPurchaseId(long value) {**

**this.purchaseId = value;**

**}**

**public void setProductId(long value) {**

**this.productId = value;**

**}**

**public void setUserId(long value) {**

**this.userId = value;**

**}**

**public void setRate(BigDecimal value) {**

**this.rate = value;**

**}**

**public void setQty(int value) {**

**this.qty = value;**

**}**

**public void setPrice(BigDecimal value) {**

**this.price = value;**

**}**

**}**

**g. User.java**

**package com.online.model;**

**import java.util.Date;**

**import javax.persistence.Column;**

**import javax.persistence.Entity;**

**import javax.persistence.GeneratedValue;**

**import javax.persistence.GenerationType;**

**import javax.persistence.Id;**

**import javax.persistence.Table;**

**@Entity**

**@Table(name = "users")**

**public class User {**

**@Id**

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

**@Column(name = "ID")**

**private long ID;**

**@Column(name = "fname")**

**private String fname;**

**@Column(name = "lname")**

**private String lname;**

**@Column(name = "address")**

**private String address;**

**@Column(name = "age")**

**private int age;**

**@Column(name = "date\_added")**

**private Date dateAdded;**

**@Column(name = "emailid")**

**private String emailId;**

**@Column(name = "pwd")**

**private String pwd;**

**public long getID() {**

**return this.ID;**

**}**

**public String getEmail() {**

**return this.emailId;**

**}**

**public String getFname() {**

**return this.fname;**

**}**

**public String getLname() {**

**return this.lname;**

**}**

**public String getAddress() {**

**return this.address;**

**}**

**public String getPwd() {**

**return this.pwd;**

**}**

**public int getAge() {**

**return this.age;**

**}**

**public Date getDateAdded() {**

**return this.dateAdded;**

**}**

**public void setID(long id) {**

**this.ID = id;**

**}**

**public void setEmail(String value) {**

**this.emailId = value;**

**}**

**public void setFname(String value) {**

**this.fname = value;**

**}**

**public void setLname(String value) {**

**this.lname = value;**

**}**

**public void setAddress(String value) {**

**this.address = value;**

**}**

**public void setPwd(String value) {**

**this.pwd = value;**

**}**

**public void setAge(int value) {**

**this.age = value;**

**}**

**public void setDateAdded(Date date) {**

**this.dateAdded = date;**

**}**

**}**

1. **Online/Repository:**

**a.AdminRepository.java:**

**package com.online.repository;**

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

**import org.springframework.data.jpa.repository.Query;**

**import com.online.model.Admin;**

**public interface AdminRepository extends JpaRepository<Admin, Long> {**

**@Query("select a from Admin a where a.adminId = ?1 and a.pwd = ?2")**

**Admin authenticate(String admin\_id, String admin\_pwd);**

**Admin findById(long id);**

**}**

**b.CategoryRepository.java:**

**package com.online.repository;**

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

**import com.online.model.Category;**

**public interface CategoryRepository extends JpaRepository<Category, Long> {**

**Category findById(long id);**

**}**

**c.ProductRepository.java:**

**package com.online.repository;**

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

**import com.online.model.Product;**

**public interface ProductRepository extends JpaRepository<Product, Long> {**

**Product findById(long id);**

**}**

**d. UserRepository.java**

**package com.online.repository;**

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

**import org.springframework.data.jpa.repository.Query;**

**import com.online.model.User;**

**public interface UserRepository extends JpaRepository<User, Long> {**

**User findByemailId(String emailId);**

**@Query("select u from User u where u.emailId = ?1 and u.pwd = ?2")**

**User authenticate(String emailId, String pwd);**

**User findById(long id);**

**}**

**e. Purchase Repository.java**

**package com.online.repository;**

**import java.util.List;**

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

**import org.springframework.data.jpa.repository.Query;**

**import com.online.model.PurchaseItem;**

**public interface PurchaseItemRepository extends JpaRepository<PurchaseItem, Long> {**

**PurchaseItem findById(long id);**

**@Query("select pi from PurchaseItem pi where pi.purchaseId=?1")**

**List<PurchaseItem> getAllItemsByPurchaseId(long purchase\_id);**

**@Query("delete from PurchaseItem where purchaseId=?1")**

**List<PurchaseItem> deleteAllItemsByPurchaseId(long purchase\_id);**

**}**

**f. PurchaseItem Repository.java**

**package com.online.repository;**

**import java.util.List;**

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

**import org.springframework.data.jpa.repository.Query;**

**import com.online.model.PurchaseItem;**

**public interface PurchaseItemRepository extends JpaRepository<PurchaseItem, Long> {**

**PurchaseItem findById(long id);**

**@Query("select pi from PurchaseItem pi where pi.purchaseId=?1")**

**List<PurchaseItem> getAllItemsByPurchaseId(long purchase\_id);**

**@Query("delete from PurchaseItem where purchaseId=?1")**

**List<PurchaseItem> deleteAllItemsByPurchaseId(long purchase\_id);**

**}**

1. **Online/Service:**

**a.AdminService.java:**

**package com.online.service;**

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

**import org.springframework.stereotype.Component;**

**import org.springframework.transaction.annotation.Transactional;**

**import com.online.model.Admin;**

**import com.online.repository.AdminRepository;**

**@Component**

**public class AdminService {**

**@Autowired**

**private AdminRepository repo;**

**@Transactional**

**public Admin authenticate(String adminId, String pwd) {**

**return repo.authenticate(adminId, pwd);**

**}**

**@Transactional**

**public Admin getAdminById(long id) {**

**return repo.findById(id);**

**}**

**@Transactional**

**public void updatePwd(Admin admin) {**

**repo.save(admin);**

**}**

**}**

**b. CategoryService.java:**

**package com.online.service;**

**import java.util.List;**

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

**import org.springframework.stereotype.Service;**

**import org.springframework.transaction.annotation.Transactional;**

**import com.online.model.\*;**

**import com.online.repository.CategoryRepository;**

**@Service**

**@Transactional**

**public class CategoryService {**

**@Autowired**

**private CategoryRepository repo;**

**public Category getCategoryById(long id) {**

**return repo.findById(id);**

**}**

**public void updateCategory(Category category) {**

**repo.save(category);**

**}**

**public void deleteCategory(long id) {**

**repo.deleteById(id);**

**}**

**public List<Category> getAllCategories() {**

**return repo.findAll();**

**}**

**public String getCategoriesDropDown(long id) {**

**StringBuilder sb = new StringBuilder("");**

**List<Category> list = repo.findAll();**

**for(Category cat: list) {**

**if (cat.getID() == id)**

**sb.append("<option value=" + String.valueOf(cat.getID()) + " selected>" + cat.getName() + "</option>");**

**else**

**sb.append("<option value=" + String.valueOf(cat.getID()) + ">" + cat.getName() + "</option>");**

**}**

**return sb.toString();**

**}**

**}**

**c. ProductService.java**

**package com.online.service;**

**import java.util.List;**

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

**import org.springframework.stereotype.Service;**

**import org.springframework.transaction.annotation.Transactional;**

**import com.online.model.\*;**

**import com.online.repository.ProductRepository;**

**@Service**

**@Transactional**

**public class ProductService {**

**@Autowired**

**private ProductRepository repo;**

**public List<Product> listAll() {**

**return repo.findAll();**

**}**

**public void save(Product product) {**

**repo.save(product);**

**}**

**public void updateProduct(Product product) {**

**repo.save(product);**

**}**

**public Product getProductById(long id) {**

**return repo.findById(id);**

**}**

**public void deleteProduct(long id) {**

**repo.deleteById(id);**

**}**

**}**

**d. PurchaseItemService.java**

**package com.online.service;**

**import java.util.List;**

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

**import org.springframework.stereotype.Service;**

**import org.springframework.transaction.annotation.Transactional;**

**import com.online.model.\*;**

**import com.online.repository.PurchaseItemRepository;**

**@Transactional**

**@Service**

**public class PurchaseItemService {**

**@Autowired**

**private PurchaseItemRepository repo;**

**public PurchaseItem getItemById(long id) {**

**return repo.findById(id);**

**}**

**public List<PurchaseItem> getAllItemsByPurchaseId(long purchaseId) {**

**return repo.getAllItemsByPurchaseId(purchaseId);**

**}**

**public void updateItem(PurchaseItem item) {**

**repo.save(item);**

**}**

**public void deleteItem(long id) {**

**repo.deleteById(id);**

**}**

**public void deleteAllItemsForPurchaseId(long purchaseId) {**

**repo.deleteAllItemsByPurchaseId(purchaseId);**

**}**

**}**

**e. ProductService.java**

**package com.online.service;**

**import java.util.List;**

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

**import org.springframework.stereotype.Service;**

**import org.springframework.transaction.annotation.Transactional;**

**import com.online.model.\*;**

**import com.online.repository.PurchaseRepository;**

**@Service**

**@Transactional**

**public class PurchaseService {**

**@Autowired**

**private PurchaseRepository repo;**

**public Purchase getPurchaseById(long id) {**

**return repo.findById(id);**

**}**

**public List<Purchase> getAllItems() {**

**return repo.findAll();**

**}**

**public List<Purchase> getAllItemsByUserId(long userId) {**

**return repo.getAllItemsByUserId(userId);**

**}**

**public long updatePurchase(Purchase purchase) {**

**repo.save(purchase);**

**return purchase.getID();**

**}**

**public void deletePurchase(long id) {**

**repo.deleteById(id);**

**}**

**}**

**f. UserService.java**

**package com.online.service;**

**import java.util.List;**

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

**import org.springframework.stereotype.Service;**

**import org.springframework.transaction.annotation.Transactional;**

**import com.online.model.\*;**

**import com.online.repository.UserRepository;**

**@Service**

**@Transactional**

**public class UserService {**

**@Autowired**

**private UserRepository repo;**

**public User authenticate(String userId, String pwd) {**

**return repo.authenticate(userId, pwd);**

**}**

**public User getUserById(long id) {**

**return repo.findById(id);**

**}**

**public User getUserByEmailId(String emailId) {**

**return repo.findByemailId(emailId);**

**}**

**public void updateUser(User user) {**

**repo.save(user);**

**}**

**public List<User> getAllUsers() {**

**return repo.findAll();**

**}**

**}**

1. **Resources/ Application.properties**

**spring.jpa.hibernate.ddl-auto=update**

**spring.datasource.url=jdbc:mysql://localhost:3306/sportyshoesdb**

**spring.datasource.username=root**

**spring.datasource.password=poiuy@098**

**spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect**

**server.port=8484**

**spring.jpa.open-in-view=false**

**spring.mvc.view.suffix=.jsp**

**logging.level.root=info**

1. **Pom.xml**

**<?xml version="1.0" encoding="UTF-8"?>**

**<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"**

**xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">**

**<modelVersion>4.0.0</modelVersion>**

**<parent>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter-parent</artifactId>**

**<version>2.6.5</version>**

**<relativePath/> <!-- lookup parent from repository -->**

**</parent>**

**<groupId>com.online</groupId>**

**<artifactId>SportyShoes</artifactId>**

**<version>0.0.1-SNAPSHOT</version>**

**<name>SportyShoes</name>**

**<description>Demo project for Spring Boot</description>**

**<properties>**

**<java.version>17</java.version>**

**</properties>**

**<dependencies>**

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter-test</artifactId>**

**<scope>test</scope>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter-data-jpa</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>javax.servlet</groupId>**

**<artifactId>javax.servlet-api</artifactId>**

**<scope>provided</scope>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework</groupId>**

**<artifactId>spring-web</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-devtools</artifactId>**

**<scope>runtime</scope>**

**<optional>true</optional>**

**</dependency>**

**<dependency>**

**<groupId>mysql</groupId>**

**<artifactId>mysql-connector-java</artifactId>**

**<scope>runtime</scope>**

**</dependency>**

**<dependency>**

**<groupId>org.apache.tomcat</groupId>**

**<artifactId>tomcat-jasper</artifactId>**

**<version>9.0.41</version>**

**</dependency>**

**<dependency>**

**<groupId>javax.servlet</groupId>**

**<artifactId>jstl</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework</groupId>**

**<artifactId>spring-beans</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework</groupId>**

**<artifactId>spring-context</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter-webflux</artifactId>**

**</dependency>**

**<dependency>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-starter-web</artifactId>**

**</dependency>**

**</dependencies>**

**<build>**

**<plugins>**

**<plugin>**

**<groupId>org.springframework.boot</groupId>**

**<artifactId>spring-boot-maven-plugin</artifactId>**

**</plugin>**

**</plugins>**

**</build>**

**</project>**

1. **Web App:**
2. **Admin:**
3. **Category.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin - Setup Product Categories</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<div class="container">**

**Total Categories: ${list.size()} &nbsp;&nbsp; <a class="btn btn-warning" style="text-align:right" href="admineditcat?id=0">Add Category</a><br>**

**<table class="table table-dark">**

**<thead>**

**<tr>**

**<th scope="col">Category</th>**

**</tr>**

**</thead>**

**<tbody>**

**<c:forEach items="${list}" var="item">**

**<tr>**

**<th scope="row">${item.name }</th>**

**<td>**

**<a href="admineditcat?id=${item.ID}">Edit</a> | <a href="admindeletecat?id=${item.ID}">Delete</a>**

**</td>**

**</tr>**

**</c:forEach>**

**</tbody>**

**</table>**

**</div>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Change-password.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin - Change Password</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<form name=frmPwd method=post action="adminchangepwdaction">**

**<div class="container">**

**<p class="alert alert-danger">${error }</p>**

**<table class="table table-dark" style="border:1px solid black;">**

**<tbody>**

**<tr>**

**<td scope="col">Enter new password\*</td>**

**<td><input name=pwd maxlength=10 type="password"></td>**

**</tr>**

**<tr>**

**<td width=25%>Confirm new Password\*</td>**

**<td>**

**<input name=pwd2 maxlength=10 type="password">**

**</td>**

**</tr>**

**</tbody>**

**</table>**

**<p style="">**

**<button class="btn btn-warning">Login</button>**

**</p>**

**</div>**

**</form>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Dashboard.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin Dashboard</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Edit-category.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin - Add/Edit Product Category</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<div class="container">**

**<%**

**if (request.getParameter("error") != null)**

**out.print(request.getParameter("error"));**

**%>**

**<form name=frmCat method=post action="admineditcataction">**

**<input type=hidden name=id value=${category.ID}>**

**<table border=1 class="table table-bordered table-dark">**

**<tr>**

**<td width=25%>Category name\*</td>**

**<td><input name=name  maxlength=50 value="${category.name}"></td>**

**</tr>**

**<tr>**

**<td colspan=2>**

**<button class="btn btn-warning">Save</button>**

**</td>**

**</tr>**

**</table>**

**</form>**

**</div>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

**edit-product.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin - Add/Edit Product</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<div class="container">**

**<p class="alert alert-danger">**

**<%**

**if (request.getParameter("error") != null)**

**out.print(request.getParameter("error"));**

**%>**

**</p>**

**<form name=frmProduct method=post action="admineditproductaction">**

**<input type=hidden name=id value="${product.ID }">**

**<table class="table table-bordered table-dark">**

**<tr>**

**<td width=25%>Product name\*</td>**

**<td><input name=name  maxlength=100 value="${product.name }"></td>**

**</tr>**

**<tr>**

**<td width=25%>Price\*</td>**

**<td><input name=price type="numeric"  maxlength=6 value="${product.price }"></td>**

**</tr>**

**<tr>**

**<td width=25%>Category\*</td>**

**<td>**

**<select name=category>**

**<option value="0">Select category</option>**

**${catDropdown}**

**</select>**

**</td>**

**</tr>**

**<tr>**

**<td colspan=2>**

**<button class="btn btn-warning">Save</button>**

**</td>**

**</tr>**

**</table>**

**</form>**

**</div>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Login.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin Login</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<br>**

**<br>**

**<br>**

**<br>**

**<br>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**${error}<br>**

**<form name=frmLogin action="adminloginaction" method="post">**

**<table border=1 cellspacing=2 cellpadding=4>**

**<tr>**

**<td width=25%>Admin id\*</td>**

**<td><input name=admin\_id maxlength=20></td>**

**</tr>**

**<tr>**

**<td width=25%>Admin Password\*</td>**

**<td><input name=admin\_pwd maxlength=10 type="password"></td>**

**</tr>**

**<tr>**

**<td colspan=2>**

**<button>Login</button>**

**</td>**

**</tr>**

**</table>**

**</form>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Members.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin - Browse Members</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<div class="container">**

**Total Members: ${list.size() }**

**<table border=1 class="table table-bordered table-dark">**

**<tr>**

**<td><b>Name</b></td>**

**<td><b>Email</b></td>**

**<td><b>Age</b></td>**

**<td><b>Address</b></td>**

**</tr>**

**<c:forEach items="${list}" var="item">**

**<tr>**

**<td>${item.fname}&nbsp;${item.lname }</td>**

**<td>${item.email}</td>**

**<td>${item.age}</td>**

**<td>${item.address}</td>**

**</tr>**

**</c:forEach>**

**</table>**

**</div>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Products.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin Setup Products</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<div class="container">**

**Total Products: ${list.size()}  &nbsp;&nbsp; <a class="btn btn-warning" style="text-align:center;" href="admineditproduct?id=0">Add Product</a><br>**

**<table class="table table-bordered table-dark">**

**<tr>**

**<td><b>Product</b></td>**

**<td><b>Price</b></td>**

**<td><b>Category</b></td>**

**<td></td>**

**</tr>**

**<c:forEach items="${list}" var="item">**

**<tr>**

**<td>${item.name }</td>**

**<td>${item.price }</td>**

**<td>${mapCats.get(item.ID)}</td>**

**<td>**

**<a href="admineditproduct?id=${item.ID}">Edit</a> | <a href="admindeleteproduct?id=${item.ID}">Delete</a>**

**</td>**

**</tr>**

**</c:forEach>**

**</table>**

**</div>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Purchases.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Admin - Purchases Report</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-header.jsp" ></jsp:include>**

**<jsp:include page="/components/admin-topbar.jsp" ></jsp:include>**

**<div class="container">**

**<br><br>Total ${list.size()} Orders: ${totalAmount }<br>**

**<table class="table table-bordered table-dark">**

**<tr>**

**<td><b>Order ID</b></td>**

**<td><b>User</b>**

**<td><b>Date</b></td>**

**<td><b>Total</b></td>**

**<td><b>Items</b></td>**

**</tr>**

**<c:forEach items="${list}" var="item">**

**<tr>**

**<td>${item.ID }</td>**

**<td>**

**${mapUsers.get(item.ID)}**

**</td>**

**<td>${item.date }</td>**

**<td>${item.total}</td>**

**<td>**

**${mapItems.get(item.ID)}**

**</td>**

**</tr>**

**</c:forEach>**

**</table>**

**</div>**

**<jsp:include page="/components/admin-footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Components:**

**Admin-footer.jsp:**

**<hr>**

**Admin-header.jsp:**

**<br>**

**<br>**

**<%@ page isELIgnored="false" %>**

1. **Admin-topbar.jsp:**

**<div class="container-fluid p-3 my-3 bg-dark text-white">**

**<h1 class="text-center">Admin Dashboard</h2>**

**<div class="text-center">**

**<button type="button" class="btn btn-light"><a class="text-success p-3" href="adminproducts" style="font-size: 20px; font-weight: bold;">Setup Products</a></button>**

**<button type="button" class="btn btn-light"><a class="text-success p-3" href="admincategories" style="font-size: 20px; font-weight: bold;">Setup Product Categories</a></button>**

**<button type="button" class="btn btn-light"><a class="text-success p-3" href="adminmembers" style="font-size: 20px; font-weight: bold;">Browse Members</a></button>**

**<button type="button" class="btn btn-light"><a class="text-success p-3" href="adminpurchases" style="font-size: 20px; font-weight: bold;">Purchase Report</a></button>**

**<button type="button" class="btn btn-light"><a class="text-success p-3" href="adminchangepassword" style="font-size: 20px; font-weight: bold;">Change Password</a></button>**

**</div>**

**</div>**

**<br>**

1. **Footer.jsp:**

**<hr>**

**<div class="d-flex flex-column h-100">**

**<footer class="footer mt-auto py-3 bg-light" style=**

**"position: fixed;**

**left: 0;**

**bottom: 0;**

**width: 100%;**

**background-color: red;**

**color: white;**

**text-align: center;">**

**<div class="container">**

**<span class="text-muted">�Sportyshoestore.com(Tamasjit Ghoshal)</span>**

**</div>**

**</footer>**

**</div>**

**Header.jsp:**

**<br>**

**<br>**

**<%@ page isELIgnored="false" %>**

**<h3 class="" style="text-align: center;"> ${pageTitle} </h3>**

**Header1.jsp:**

**<%@ page language="java" contentType="text/html; charset=ISO-8859-1"**

**pageEncoding="ISO-8859-1"%>**

**<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>**

**<%@ page isELIgnored="false" %>**

**<nav class="navbar navbar-expand-lg fixed-top navbar-light headerback"  style="background-color: #ffffff;">**

**<a class="navbar-brand text-success logo" href="<%=request.getContextPath()%>/home" style="font-size: 31px; font-weight: bold; ">SportyShoes</a>**

**<div class="collapse navbar-collapse" id="navbarSupportedContent">**

**<ul class="navbar-nav mr-auto">**

**<li class="nav-item active">**

**<a class="nav-link text-success" href="<%=request.getContextPath()%>/home" style="font-size: 25px; font-weight: bold; ">Home</a>**

**</li>**

**</ul>**

**<form class="form-inline my-2 my-lg-0">**

**<c:if test = "${user\_id != null }">**

**<a style="margin-right: 6px; font-weight: bold;" class="btn btn-outline-success my-2 my-sm-0 buttonstylehome" type="submit" href="/dashboard">User Dashboard</a>**

**<a style="margin-right: 6px; font-weight: bold;" class="btn btn-outline-success my-2 my-sm-0 buttonstylehome" type="submit" href="/logout">Logout</a>**

**</c:if>**

**<c:if test = "${admin\_id != null }">**

**<a style="margin-right: 6px; font-weight: bold;" class="btn btn-outline-success my-2 my-sm-0 buttonstylehome" type="submit" href="/admindashboard">Admin Dashboard</a>**

**<a style="margin-right: 6px; font-weight: bold;" class="btn btn-outline-success my-2 my-sm-0 buttonstylehome" type="submit" href="/logout">Logout</a>**

**</c:if>**

**<c:if test ="${user\_id == null && admin\_id == null}">**

**<a style="margin-right: 6px; font-weight: bold;" class="btn btn-outline-success my-2 my-sm-0 login" type="submit" href="/login">Login</a>**

**</c:if>**

**</form>**

**</div>**

**</nav>**

**Topbar.jsp:**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<div class="container">**

**<p style="text-align:center">**

**<% if (session.getAttribute("user\_id") == null ) { %>**

**<a class="btn btn-primary" style="margin-right:9px;" href="login">Login/Signup</a> | <a href="adminlogin">Adminlogin</a>**

**<% }  else { %>**

**<a class="btn btn-primary" style="margin-right:9px;" href="cart">Cart</a>**

**<a class="btn btn-primary" style="margin-right:9px;" href="editprofile">Edit Profile</a>**

**<a class="btn btn-primary" style="margin-right:9px;" href="memberpurchases">Your Orders</a>**

**<% }  %>**

**<br>**

**</p>**

**</div>**

1. **Css:**
2. **Cart.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false"%>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Your Cart</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**<style>**

**.contain {**

**padding: 0px 25%;**

**}**

**</style>**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp"></jsp:include>**

**<jsp:include page="/components/header.jsp"></jsp:include>**

**<jsp:include page="/components/topbar.jsp"></jsp:include>**

**<div class="container">**

**<div class="contain">**

**<c:if test="${error != null}">**

**<p class="alert alert-danger">**

**<c:out value="${error}" />**

**<p>**

**</c:if>**

**Total Cart Value: ${cartValue }<br>**

**<p style="color: orange; text-align: right">Total ${list.size()}**

**Orders: ${totalAmount }</p>**

**<table class="table">**

**<thead>**

**<tr>**

**<th scope="col">Product</th>**

**<th scope="col">Qty</th>**

**<th scope="col">Price</th>**

**</tr>**

**</thead>**

**<tbody>**

**<c:forEach items="${cartItems}" var="item">**

**<tr>**

**<th scope="row">${item.name }</th>**

**<td>${item.qty}</td>**

**<td>${item.price}</td>**

**</tr>**

**</c:forEach>**

**</tbody>**

**</table>**

**<br>**

**<c:if test="${cartItems.size() > 0}">**

**<a class="btn btn-warning" href="checkout">Checkout Now</a>**

**</c:if>**

**</div>**

**</div>**

**</body>**

**</html>**

1. **Checkout.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Checkout</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**<br>**

**<div class="container">**

**<h3 style="text-align:center; color:orange;">Your Total Order is worth ${cartValue}</h3><br><br>**

**<p style="text-align:center;"><a class="alert alert-warning" href="gateway">Pay via secure Payment Gateway</a></p>**

**</div>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Confirm.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Purchase Confirmation</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**<br><br>**

**<div class="container">**

**<p style="text-align:center; color:orange;">Your Order worth ${cartValue} has been completed successfully.</p><br><br>**

**<p style="text-align:center;"> Check your <A class="alert alert-warning" href="memberpurchases">Order History</A> </p>**

**</div>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Dashboard.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Dashboard</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Edit-profile.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Edit Profile</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**<style>**

**.detailsbox{**

**padding:80px 25%;**

**}**

**</style>**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<div class="detailsbox">**

**<div class="margin p-3 my-3 bg-dark text-white">**

**<form name=frmEdit action="editprofileaction" method="post">**

**<h4>Update Profile</h4>**

**<div class="row">**

**<input type=hidden name=user\_id value="${user.ID}">**

**<div class="form-group col">**

**<label for="fname">First name</label>**

**<input type="text" class="form-control" id="fname" name="fname"   maxlength="20" placeholder="Enter first name" value="${user.fname }" required>**

**</div>**

**<div class="form-group col">**

**<label for="lname">Last name</label>**

**<input type="text" class="form-control" id="lname" name="lname" maxlength="20" placeholder="Enter last name" value="${user.lname }" required>**

**</div>**

**</div>**

**<div class="form-group">**

**<label for="age">Age</label>**

**<input type="tel" class="form-control" id="age" name="age" placeholder="Enter Age" value="${user.age }" required >**

**</div>**

**<div class="form-group">**

**<label for="address">Address</label>**

**<input type="text" class="form-control" id="address" name="address" maxlength="100" placeholder="Enter Address" value="${user.address }" required>**

**</div>**

**<div class="form-group">**

**<label for="pwd">Password</label>**

**<input type="text" class="form-control" id="pwd" name="pwd" maxlength="20" placeholder="Enter password" required>**

**</div>**

**<div class="form-group">**

**<label for="pwd2">Confirm Password</label>**

**<input type="text" class="form-control" id="pwd2" name="pwd2" maxlength="20" placeholder="Enter password" required>**

**</div>**

**<div class="">**

**<small id="phone" class="form-text text-muted">We'll never share your phone no and email with anyone else.</small>**

**<c:if test="${error!=null}">**

**<h5 class="alert alert-danger"><c:out value="${error}"/></h5>**

**</c:if>**

**<button type="submit" class="btn btn-primary"> UPDATE </button>**

**</div>**

**</form>**

**</div>**

**</div>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Gateway.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Make Payment</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**<br><br>**

**<div class="container">**

**<p style="color:orange; text-align:center;">Your card will be charged an amount of ${cartValue}</p><br><br>**

**<p style="text-align:center;"><a class="alert alert-warning" href="completepurchase">Click to complete checkout</a></p>**

**</div>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

1. **Hellopage.jsp:**

**<%@ page language="java" contentType="text/html; charset=ISO-8859-1"**

**pageEncoding="ISO-8859-1"%>**

**<!DOCTYPE HTML>**

**<html>**

**<head>**

**<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">**

**<title>Sping MVC Web Application</title>**

**</head>**

**<body>**

**<h2>Spring MVC Example</h2>**

**<div id="welcomeMessage" style="margin: 20px; color: green;">**

**<strong>${messageObj}</strong>**

**</div>**

**</body>**

**</html>**

1. **Index.jsp:**

**<%@ page language="java" contentType="text/html; charset=ISO-8859-1"**

**pageEncoding="ISO-8859-1"%>**

**<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>**

**<%@ page isELIgnored="false"%>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<style>**

**.box {**

**height: 200px;**

**width: 200px;**

**background-image: url("");**

**}**

**.contain {**

**padding: 0px 10%**

**}**

**</style>**

**<body>**

**<jsp:include page="/components/header1.jsp"></jsp:include>**

**<jsp:include page="/components/topbar.jsp"></jsp:include>**

**<div class="contain">**

**<div class="row" style="margin-top: 85px;">**

**<div class="col-12">**

**<div class="row">**

**<c:if test="${categoryname == null}">**

**<c:forEach items="${list}" var="item">**

**<div class="col-4 mt-2 mb-2">**

**<div class="card text-white" style="background-color: #FE957B">**

**<div class="card-body">**

**<h3 style="margin-top: 16px;">${item.name }</h3>**

**<h4 style="">Rs: ${item.price }</h4>**

**<a class="btn btn-warning" href="cartadditem?id=${item.ID}">Add**

**To Cart</a>**

**</div>**

**</div>**

**</div>**

**</c:forEach>**

**</c:if>**

**</div>**

**</div>**

**</div>**

**</div>**

**</body>**

**</html>**

1. **Login.jsp:**

**<%@ page language="java" contentType="text/html; charset=ISO-8859-1"**

**pageEncoding="ISO-8859-1"%>**

**<!DOCTYPE html>**

**<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>**

**<%@ page isELIgnored="false" %>**

**<html>**

**<head>**

**<meta charset="ISO-8859-1">**

**<title>Insert title here</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**<style>**

**.contain{**

**margin:0px 15%;**

**}**

**.topmar{**

**margin:150px 0%;**

**}**

**</style>**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<div class="container">**

**<div class="row topmar">**

**<div class="col-6" >**

**<div class="contain p-3 my-3 bg-dark text-white">**

**<h2 style="text-align:center">Login</h2>**

**<c:if test = "${regsucmessage !=null}">**

**<p class="alert alert-warning"><c:out value="${regsucmessage}"/></p>**

**</c:if>**

**<form action="loginaction" method="post">**

**<div class="form-group">**

**<label for="email\_id">User Name:</label>**

**<input type="text" class="form-control" id="email\_id" placeholder="User Name" name="email\_id" required>**

**</div>**

**<div class="form-group">**

**<label for="pwd">Password:</label>**

**<input type="password" class="form-control" id="pwd" placeholder="Password" name="pwd" required>**

**</div>**

**<p class="text-danger"><c:out value="${error}"/></p>**

**<button type="submit" class="btn btn-primary">Submit</button>**

**<p>Not Registered Yet <a href="signup">Click here</a></p>**

**</form>**

**</div>**

**</div>**

**<div class="col-6">**

**<div class="contain p-3 my-3 bg-dark text-white">**

**<h2 style="text-align:center">Admin Login</h2>**

**<form action="adminloginaction" method="post">**

**<div class="form-group">**

**<label for="admin\_id">User Name:</label>**

**<input type="text" class="form-control" id="admin\_id" placeholder="User Name" name="admin\_id" required>**

**</div>**

**<div class="form-group">**

**<label for="uname">Password:</label>**

**<input type="password" class="form-control" id="admin\_pwd" placeholder="Password" name="admin\_pwd" required>**

**</div>**

**<p class="text-danger"><c:out value="${adminerrlogmessage}"/></p>**

**<button type="submit" class="btn btn-primary">Submit</button>**

**</form>**

**</div>**

**</div>**

**</div>**

**</div>**

**</body>**

**</html>**

1. **Login1.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Login</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**${error}**

**<form name=frmLogin action="loginaction" method="post">**

**<table border=1 cellspacing=2 cellpadding=4>**

**<tr>**

**<td width=25%>Email id\*</td>**

**<td><input name=email\_id maxlength=50></td>**

**</tr>**

**<tr>**

**<td width=25%>Password\*</td>**

**<td><input name=pwd maxlength=10 type="password"></td>**

**</tr>**

**<tr>**

**<td colspan=2>**

**<button>Login</button><br>**

**<a href="signup">Not a member? Signup</a>**

**</td>**

**</tr>**

**</table>**

**</form>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Purchases.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Your Purchases</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**<div class="container p-3 my-3 bg-dark text-white">**

**<br style="color:orange;text-align:right">Total ${list.size()} Orders: ${totalAmount }<br>**

**<table class="table table-bordered">**

**<thead>**

**<tr>**

**<th scope="col">Order ID</th>**

**<th scope="col">Date</th>**

**<th scope="col">Total</th>**

**<th scope="col">Items</th>**

**</tr>**

**</thead>**

**<tbody>**

**<c:forEach items="${list}" var="item">**

**<tr>**

**<th scope="row">${item.ID }</th>**

**<td>${item.date }</td>**

**<td>${item.total}</td>**

**<td>${mapItems.get(item.ID)}</td>**

**</tr>**

**</c:forEach>**

**</tbody>**

**</table>**

**</div>**

**<br>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Register-confirm.jsp:**

**<%@ page language="java" contentType="text/html; charset=UTF-8"**

**pageEncoding="UTF-8"%>**

**<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>**

**<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>**

**<%@ page isELIgnored="false" %>**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Sporty Shoes - Registration Confirmation</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**</head>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<jsp:include page="/components/header.jsp" ></jsp:include>**

**<jsp:include page="/components/topbar.jsp" ></jsp:include>**

**<div class="container">**

**<p class="alert alert-success" style="text-align:center;">Your registration is confirmed. <a href="login">Login to continue shopping</a><br></p>**

**</div>**

**<jsp:include page="/components/footer.jsp"></jsp:include>**

**</body>**

**</html>**

**Register.jsp:**

**<%@ page language="java" contentType="text/html; charset=ISO-8859-1"**

**pageEncoding="ISO-8859-1"%>**

**<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>**

**<%@ page isELIgnored="false" %>**

1. **Registration.jsp**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="ISO-8859-1">**

**<title>Insert title here</title>**

**<link rel="stylesheet" href="css/bootstrap.min.css">**

**<style>**

**.detailsbox{**

**padding:80px 25%;**

**}**

**</style>**

**</head>**

**<body>**

**<body>**

**<jsp:include page="/components/header1.jsp" ></jsp:include>**

**<div class="detailsbox">**

**<div class="margin p-3 my-3 bg-dark text-white">**

**<form action="signupaction" method="post">**

**<h4>Register</h4>**

**<div class="row">**

**<div class="form-group col">**

**<label for="fname">First name</label>**

**<input type="text" class="form-control" id="fname" name="fname"   maxlength="20" placeholder="Enter first name" required>**

**</div>**

**<div class="form-group col">**

**<label for="lname">Last name</label>**

**<input type="text" class="form-control" id="lname" name="lname" maxlength="20" placeholder="Enter last name" required>**

**</div>**

**</div>**

**<div class="form-group">**

**<label for="email\_id">Email address</label>**

**<input type="email" class="form-control" id="email\_id" name="email\_id" maxlength="40" placeholder="Enter email" required>**

**</div>**

**<div class="form-group">**

**<label for="age">Age</label>**

**<input type="number" class="form-control" id="age" name="age" placeholder="Enter Age" required>**

**</div>**

**<div class="form-group">**

**<label for="address">Address</label>**

**<input type="text" class="form-control" id="address" name="address" maxlength="100" placeholder="Enter Address" required>**

**</div>**

**<div class="form-group">**

**<label for="pwd">Password</label>**

**<input type="password" class="form-control" id="pwd" name="pwd" maxlength="20" placeholder="Enter password" required>**

**</div>**

**<div class="form-group">**

**<label for="pwd2">Confirm Password</label>**

**<input type="password" class="form-control" id="pwd2" name="pwd2" maxlength="20" placeholder="Enter password" required>**

**</div>**

**<div class="">**

**<c:if test="${error!=null}">**

**<h5 class="alert alert-danger"><c:out value="${error}"/></h5>**

**</c:if>**

**<button type="submit" class="btn btn-primary"> REGISTER </button>**

**</div>**

**</form>**

**</div>**

**</div>**

**</body>**

**</html>**