

Main Class

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/SportyShoesApplication.java - Spring Tool Suite 4
- Menu Bar:** File Edit Source Refactor Source Navigate Search Project Run Window Help
- Toolbars:** Standard, Java, PHP, and others.
- Project Explorer:** Shows the project structure with several Java projects and their source files.
- Code Editor:** Displays the `SportyShoesApplication.java` file content.
- Bottom Status Bar:** Writable, Smart Insert, 14:1:329, 7/13/2023, 22:07.

```
1 package com.spring.web.SportyShoes;
2
3 import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
6 public class SportyShoesApplication {
7
8     public static void main(String[] args) {
9         SpringApplication.run(SportyShoesApplication.class, args);
10    }
11 }
12
13 }
```

Database Connection

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer Tab:** Displays the project structure under "SportyShoes". It includes packages like "HibernateDemo", "JDBCDemo", "JSPConcepts", "JSDemo", "JUnitDemos", "LearnersAcademy", "LockedMe.com", "NewSportyShoe", "Phase1JavaDemo", "SeleniumDemo", "Servers", "ServletDemo", and "SportyShoes". The "SportyShoes" package is expanded, showing sub-packages "com.spring.web", "src/main/java", and "src/main/resources".
- Java Editor Tab:** Shows the content of the "application.properties" file. The code is as follows:

```
#server.port=8081
#datasource
spring.datasource.url=jdbc:mysql://localhost:3306/shoes
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.username=root
spring.datasource.password=root
#Hibernate
spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.MySQL5Dialect
```

The status bar at the bottom indicates "Writable" and "9 : 5 : 227". The system tray icons include a search icon, a calendar icon, a file icon, a folder icon, a green circular icon, a blue square icon, a red square icon, a blue square icon with a white gear, a blue square icon with a white triangle, a blue square icon with a white arrow, a blue square icon with a white plus sign, and a blue square icon with a white minus sign.

CategoryController Class

The screenshot shows the Eclipse IDE interface with the 'CategoryController.java' file open in the central editor window. The code implements a Spring Controller for managing categories. It includes imports for Spring annotations and repositories, and defines a controller class with methods for viewing purchase reports and listing categories.

```
1 package com.spring.web.SportyShoes.controller;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @Controller
6 public class CategoryController {
7
8     private final CategoryRepository categoryRepository;
9
10    @Autowired
11    public CategoryController(CategoryRepository categoryRepository) {
12        this.categoryRepository = categoryRepository;
13    }
14
15    @GetMapping("/PurchaseReport")
16    public String viewPurchaseReportForm(Model model) {
17        model.addAttribute("categories", categoryRepository.findAll());
18        return "PurchaseReport";
19    }
20
21    @GetMapping("/PurchaseReport")
22    public String viewPurchaseReportForm(Model model) {
23        model.addAttribute("categories", categoryRepository.findAll());
24        return "PurchaseReport";
25    }
26
27 }
```

ProductController Class

The screenshot shows the Eclipse IDE interface with the 'ProductController.java' file open in the central editor window. The code implements a Spring Controller for managing products. It includes imports for Spring annotations and services, and defines a controller class with methods for listing products, adding new products, and saving products.

```
1 package com.spring.web.SportyShoes.controller;
2
3 import org.springframework.stereotype.Controller;
4
5 @Controller
6 public class ProductController {
7
8     private ProductService productService;
9     private CategoryService categoryService;
10
11    public ProductController (ProductService productService, CategoryService categoryService) {
12        super();
13        this.productService = productService;
14        this.categoryService = categoryService;
15    }
16
17    @GetMapping("/ViewProduct")
18    public String listProducts(Model model) {
19        model.addAttribute("products", productService.getAllProducts());
20        return "ViewProduct";
21    }
22
23    @GetMapping("/AddProduct")
24    public String addProductForm(Model model) {
25        Product product = new Product();
26        model.addAttribute("product", product);
27        List<Category> categories = categoryService.getAllCategories();
28        model.addAttribute("categories", categories);
29        return "AddProduct";
30    }
31
32    @PostMapping ("ViewProduct")
33    public String saveProduct(@ModelAttribute ("product") Product product) {
34        productService.saveProduct(product);
35        return "redirect:/ViewProduct";
36    }
37
38 }
```

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/controller/ProductController.java - Spring Tool Suite 4

```

File Edit Source Refactor Navigate Search Project Run Window Help
Debug Project Explorer Servers AdminDashbo... ManageProdu... application... Product.java ProductCont... CategoryCon... SportyShoesA...
> HibermateDemo [roseline.mills master]
> JDBCDeMo [roseline.mills master]
> JSPConcepts [roseline.mills master]
> JSDDemo [roseline.mills master]
> JunitDemos [roseline.mills master]
> LearnersAcademy [roseline.mills master]
> LockedMe.com [roseline.mills master]
> NewSportyShoes [boot] [roseline.mills master]
> Phase1JavaDemo [roseline.mills master]
> SeleniumDemo [roseline.mills master]
> Servers [roseline.mills master]
> ServletDemo [roseline.mills master]
> SportyShoes [boot] [devtools] [roseline.mills master]
src/main/java
  com.spring.web.SportyShoes
    SportyShoesApplication.java
    SportyShoesApplication
      CategoryController.java
      ProductController.java
      PurchaseController.java
      UserController.java
    com.spring.web.SportyShoes.dto
    com.spring.web.SportyShoes.entity
    com.spring.web.SportyShoes.repository
    com.spring.web.SportyShoes.service
    com.spring.web.SportyShoes.service.impl
src/main/resources
static
templates
com.spring.web.SportyShoes.controller.ProductController.java - SportyShoes/src/main/java

public String updateProduct(@PathVariable Integer product_id, @ModelAttribute("product") Product product, @ModelAttribute("category") Category category, Model model) {
    //get product from database by Id
    Product existingProduct = productService.getProductById(product_id);
    existingProduct.setProductName(product.getProductName());
    existingProduct.setDescription(product.getDescription());
    existingProduct.setCategory(product.getCategory());
    existingProduct.setPrice(product.getPrice());
    //save updated product object
    productService.updateProduct(existingProduct);
    return "redirect:/ViewProduct";
}

@GetMapping("/ViewProduct/{product_id}")
public String ViewProduct(@PathVariable Integer product_id) {
    productService.deleteProductById(product_id);
    return "redirect:/ViewProduct";
}

@GetMapping("/ManageProduct")
public String manageProduct() {
    return "ManageProduct";
}
}

```

22:13 7/13/2023

PurchaseControllerClass

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/controller/PurchaseController.java - Spring Tool Suite 4

```

File Edit Source Refactor Source Navigate Search Project Run Window Help
AdminDashbo... ManageProdu... HomeControl... ProductCont... application... Product.java ProductCont... CategoryCon... PurchaseCon... SportyShoesA...
1 package com.spring.web.SportyShoes.controller;
2 import java.util.List;
3 import java.time.LocalDate;
4 import org.springframework.beans.factory.annotation.Autowired;
5 import org.springframework.stereotype.Controller;
6 import org.springframework.ui.Model;
7 import org.springframework.web.bind.annotation.GetMapping;
8 import org.springframework.web.bind.annotation.RequestParam;
9 import com.spring.web.SportyShoes.dto.PurchaseReportDTO;
10 import com.spring.web.SportyShoes.service.PurchaseService;
11
12 @Controller
13 public class PurchaseController {
14     @Autowired
15     private PurchaseService purchaseService;
16     @GetMapping("/ViewPurchaseReport")
17     public String showPurchaseReport(
18         @RequestParam(name = "category", required = false, defaultValue = "") String categoryName,
19         @RequestParam(name = "date", required = false, defaultValue = "") String dateString,
20         Model model) {
21         LocalDate parsedDate = null;
22         List<PurchaseReportDTO> purchaseReports;
23         if (!dateString.isEmpty()) {
24             parsedDate = LocalDate.parse(dateString);
25         }
26         if (!categoryName.isEmpty() && parsedDate != null) {
27             // No selection made, retrieve all purchase reports
28             purchaseReports = purchaseService.getPurchaseReports(categoryName, parsedDate);
29         } else {
30             // Selection made, retrieve purchase reports based on category and date
31             purchaseReports = purchaseService.getPurchaseReports("", null);
32             model.addAttribute("purchaseReports", purchaseReports);
33             model.addAttribute("selectedCategory", categoryName);
34             model.addAttribute("selectedDate", dateString);
35         }
36     }
}

```

Writable Smart Insert 28:9:1328 Building: (62%) 22:32 7/13/2023

UserController Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/controller/UserController.java - Spring Tool Suite 4

File Edit Source Refactor Source Navigate Search Project Run Window Help

```
AdminDashbo... ManageProdu... HomeControl... ProductCont... AdminContro... SearchUser.jsp AddProductFo... SportyShoesW... ServletInit... UserController... x
```

```
1 //UserController Class
2 package com.spring.web.SportyShoes.controller;
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.stereotype.Controller;
5 import org.springframework.ui.Model;
6 import org.springframework.web.bind.annotation.GetMapping;
7 import org.springframework.web.bind.annotation.PostMapping;
8 import org.springframework.web.bind.annotation.RequestParam;
9 import com.spring.web.SportyShoes.entity.User;
10 import com.spring.web.SportyShoes.service.UserService;
11
12 @Controller
13 public class UserController {
14    @Autowired
15    private UserService userService;
16
17    @GetMapping("/index")
18    public String homepage() {
19        return "index";
20    }
21
22    @GetMapping("/AdminDashboard")
23    public String formAdminDashboard() {
24        return "AdminDashboard";
25    }
26    @PostMapping("/Login")
27    public String adminLogin(@RequestParam ("username")String username,
28                           @RequestParam("password")String password, Model model) {
29        if (userService.validateUser(username, password)){
30            model.addAttribute("username", username);
31
32            return "AdminDashboard";
33        }else {
34            System.out.println("Invalid username or password");
35            model.addAttribute("errorMessage","Invalid username or password");
36            return "/index";
37        }
38    }
39
40    @GetMapping("/Logout")
41    public String logout(Model model) {
42        model.addAttribute("username", null);
43        return "index";
44    }
45}
```

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/controller/UserController.java - Spring Tool Suite 4". The code editor displays Java code for the UserController class, which handles user management operations like viewing users, searching users, changing passwords, and resetting passwords. The code uses annotations like @GetMapping and @PostMapping to map HTTP requests to specific methods. The code editor has syntax highlighting and various toolbars at the top and bottom.

```
1 package com.spring.web.SportyShoes.controller;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestParam;
8
9 import com.spring.web.SportyShoes.model.User;
10 import com.spring.web.SportyShoes.service.UserService;
11
12 @Controller
13 public class UserController {
14
15     @GetMapping("/ViewUser")
16     public String viewUser(Model model) {
17         User user = userService.findByUsername("username");
18         if (user != null) {
19             model.addAttribute("user", user);
20         }
21         model.addAttribute("users", userService.getAllUsers());
22         return "ViewUser";
23     }
24
25     @GetMapping("/ViewUser/search")
26     public String searchUser(@RequestParam("username") String username, Model model) {
27         User user = userService.findByUsername(username);
28         if (user != null) {
29             model.addAttribute("searchResult", user);
30         }
31         model.addAttribute("users", userService.getAllUsers());
32         return "ViewUser";
33     }
34
35     @GetMapping("/ChangePassword")
36     public String changePassword() {
37         return "ChangePassword";
38     }
39
40     @PostMapping("/ResetPassword")
41     public String resetPassword(@RequestParam("username") String username,
42                                 @RequestParam("newPassword") String newPassword,
43                                 @RequestParam("confirmPassword") String confirmPassword,
44                                 Model model) {
45
46         User user = userService.findByUsername(username);
47
48         if (user != null && user.getUsername().equals(username) && newPassword.equals(confirmPassword)) {
49             userService.updatePassword(username, newPassword);
50             model.addAttribute("successMessage", "Password changed successfully. Please login with the new password");
51             return "index";
52         } else {
53             model.addAttribute("errorMessage", "Invalid username or confirm password does not match");
54             return "ChangePassword";
55         }
56     }
57 }
58
```

PurchaseReportDTO Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/dto/PurchaseReportDTO.java - Spring Tool Suite 4". The code editor displays Java code for the PurchaseReportDTO class, which is annotated with @Data, @AllArgsConstructor, and @NoArgsConstructor. It contains private fields for purchase_id, username, date, total_amount, productName, description, and categoryName. The code editor has syntax highlighting and various toolbars at the top and bottom.

```
1 package com.spring.web.SportyShoes.dto;
2
3 import java.time.LocalDate;
4
5 @Data
6 @AllArgsConstructor
7 @NoArgsConstructor
8 public class PurchaseReportDTO {
9     private int purchase_id;
10    private String username;
11    private LocalDate date;
12    private double total_amount;
13    private String productName;
14    private String description;
15    private String categoryName;
16 }
```

CategoryEntity Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/entity/Category.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The left sidebar shows project files like AdminDashbo..., ManageProdu..., HomeControl..., ProductCont..., AdminContro..., SearchUser.jsp, AddProductFo..., UserControl..., Category.java, and PurchaseRepo.... The main editor area contains the following Java code:

```
1 package com.spring.web.SportyShoes.entity;
2
3 import java.util.List;
4
5 @Data
6 @AllArgsConstructor
7 @NoArgsConstructor
8 @Entity
9 @Table(name = "category")
10 public class Category {
11     @Id
12     private int category_id;
13
14     @Column(name = "category_name")
15     private String categoryName;
16
17     @OneToMany(mappedBy = "category")
18     private List<Product> products;
19
20     @Override
21     public String toString() {
22         return "Category [category_id=" + category_id + ", categoryName=" + categoryName + "]";
23     }
24 }
25
26
27
28
29
30
31
32
33
34
35
36
37
```

ProductEntity Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/entity/Product.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The left sidebar shows project files like AdminDashbo..., ManageProdu..., HomeControl..., ProductCont..., AdminContro..., SearchUser.jsp, Product.java, UserControl..., Category.java, and PurchaseRepo.... The main editor area contains the following Java code:

```
1 package com.spring.web.SportyShoes.entity;
2
3
4
5 import java.util.List;
6
7 @Data
8 @AllArgsConstructor
9 @NoArgsConstructor
10 @Entity (name="product")
11 public class Product {
12     @Id
13     @GeneratedValue(strategy=GenerationType.IDENTITY)
14     private int product_id;
15     @Column(name = "product_name")
16     private String productName;
17     private String description;
18     private double price;
19     @ManyToOne
20     @JoinColumn(name = "category_id")
21     private Category category;
22     @OneToMany(mappedBy = "product")
23     private List<PurchaseItem> purchaseItems;
24
25     @Override
26     public String toString() {
27         return "Product [product_id=" + product_id + ", productName=" + productName + ", description=" + description
28             + ", price=" + price + "]";
29     }
30 }
31
32
33
34
35
36
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38
39
40
41
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43
44
45
46
47
48
```

Purchase Entity Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/entity/Purchase.java - Spring Tool Suite 4

```
1 package com.spring.web.SportyShoes.entity;
2
3 import java.time.LocalDate;
4
5 @AllArgsConstructor
6 @NoArgsConstructor
7 @Data
8 @Entity
9 @Table(name="purchase")
10 public class Purchase {
11     @Id
12     private int purchase_id;
13     private String username;
14     private LocalDate date;
15     private double total_amount;
16
17     @OneToMany(mappedBy = "purchase")
18     private List<PurchaseItem> purchaseItems = new ArrayList<>();
19
20     @Override
21     public String toString() {
22         return "Purchase [purchase_id=" + purchase_id + ", username=" + username + ", date=" + date + ", total_amount=" + total_amount + ", purchaseIt
23     }
24
25 }
26
27
28
29
30
31
32
33
34
35
36
37
```

PurchaseItem Entity Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/entity/PurchaseItem.java - Spring Tool Suite 4

```
1 package com.spring.web.SportyShoes.entity;
2
3 import javax.persistence.Entity;
4
5 @Data
6 @AllArgsConstructor
7 @NoArgsConstructor
8 @Entity
9 @Table(name="purchase_item")
10 public class PurchaseItem {
11     @Id
12     private int purchase_item_id;
13     @ManyToOne
14     @JoinColumn(name = "purchase_id")
15     private Purchase purchase;
16     @ManyToOne
17     @JoinColumn(name = "product_id")
18     private Product product;
19     private int quantity;
20
21     @Override
22     public String toString() {
23         return "PurchaseItem [purchase_item_id=" + purchase_item_id + ", purchase=" + (purchase != null ? purchase.getPurchase_id() : null) + ", produc
24     }
25
26 }
27
28
29
30
31
32
33
34
35
36
```

User Entity Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/entity/User.java - Spring Tool Suite 4

```
1 //User entity Class
2 package com.spring.web.SportyShoes.entity;
3
4 import javax.persistence.Entity;
5
6 @AllArgsConstructor
7 @Data
8 @NoArgsConstructor
9
10 @Entity (name="user")
11 public class User {
12     @Id
13     String username;
14     String password;
15     String email_address;
16     String location;
17 }
```

The screenshot shows the Eclipse IDE interface with the User.java file open in the editor. The code defines a JPA entity named 'User' with fields for id, username, password, email address, and location. Annotations like @Entity, @Id, and @Data are used. The code is syntax-highlighted in blue and black.

CategoryRepository Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/repository/CategoryRepository.java - Spring Tool Suite 4

```
1 package com.spring.web.SportyShoes.repository;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4
5 @Repository
6 public interface CategoryRepository extends JpaRepository<Category, Integer> {
7     Category findByCategoryName(String categoryName);
8 }
9
10 }
```

The screenshot shows the Eclipse IDE interface with the CategoryRepository.java file open in the editor. The code defines a Spring Data JPA repository interface named 'CategoryRepository' that extends JpaRepository. It has a single method 'findByCategoryName' that takes a String parameter. The code is syntax-highlighted in blue and black.

ProductRepository Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/repository/ProductRepository.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The code editor displays the following Java code:

```
1 package com.spring.web.SportyShoes.repository;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4 import org.springframework.stereotype.Repository;
5
6 import com.spring.web.SportyShoes.entity.Product;
7
8 @Repository
9 public interface ProductRepository extends JpaRepository<Product, Integer> {
10
11 }
12
```

The status bar at the bottom shows "Writable", "Smart Insert", "12 : 1 : 315", and a system tray with icons for search, file, browser, and battery.

PurchaseItemRepository Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/repository/PurchaseItemRepository.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The code editor displays the following Java code:

```
1 package com.spring.web.SportyShoes.repository;
2
3 import java.util.List;
4
5 @Repository
6 public interface PurchaseItemRepository extends JpaRepository<PurchaseItem, Integer>{
7
8     List<PurchaseItem> findByPurchase(Purchase purchase);
9
10 }
11
```

The status bar at the bottom shows "Writable", "Smart Insert", "17 : 1 : 466", and a system tray with icons for search, file, browser, and battery.

PurchaseRepository Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/repository/PurchaseRepository.java - Spring Tool Suite 4". The code editor displays the following Java code:

```
1 package com.spring.web.SportyShoes.repository;
2
3 import java.time.LocalDate;
4
5 //import com.spring.web.SportyShoes.entity.PurchaseItem;
6
7 @Repository
8 public interface PurchaseRepository extends JpaRepository<Purchase, Integer>{
9
10     List<Purchase> findAll();
11     // List<Purchase> findByPurchaseItemsProductCategoryCategoryNameAndDate(String category, String date);
12     //List<Purchase> findByPurchaseItemsProductCategoryCategoryNameAndDate(categoryName, String dateString);
13
14     List<Purchase> findByPurchaseItemsProductCategoryCategoryNameAndDate(String categoryName, LocalDate parsedDate);
15
16     List<Purchase> findByPurchaseItemsProductCategoryCategoryName(String category);
17
18     List<Purchase> findByDate(LocalDate parsedDate);
19
20 }
21
22 }
```

The status bar at the bottom shows "Writable", "Smart Insert", "26:1:927", and a system tray with icons for search, file explorer, task manager, and network.

UserRepository Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/repository/UserRepository.java - Spring Tool Suite 4". The code editor displays the following Java code:

```
1 // UserRepository Class
2 package com.spring.web.SportyShoes.repository;
3
4 import org.springframework.data.jpa.repository.JpaRepository;
5
6 public interface UserRepository extends JpaRepository<User, String>{
7     User findByUsername(String username);
8
9 }
10
11 }
```

The status bar at the bottom shows "Writable", "Smart Insert", "11:1:302", and a system tray with icons for search, file explorer, task manager, and network.

CategoryService Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/CategoryService.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The code editor contains the following Java code:

```
1 package com.spring.web.SportyShoes.service;
2
3 import java.util.List;
4
5 @Service
6 public interface CategoryService {
7     List <Category> getAllCategories();
8 }
9
```

The status bar at the bottom shows "Writable", "Smart Insert", "13:1:263", and a system tray with icons for search, file, browser, and battery.

ProductService Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/ProductService.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The code editor contains the following Java code:

```
1 package com.spring.web.SportyShoes.service;
2
3 import java.util.List;
4
5 public interface ProductService {
6     List <Product> getAllProducts();
7
8     Product saveProduct(Product product);
9     Product getProductById(Integer product_id);
10    Product updateProduct(Product product);
11    void deleteProductById(Integer product_id);
12 }
13
14
15
```

The status bar at the bottom shows "Writable", "Smart Insert", "1:1:0", and a system tray with icons for search, file, browser, and battery.

PurchaseService Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/PurchaseService.java - Spring Tool Suite 4

```
1 package com.spring.web.SportyShoes.service;
2
3 import java.time.LocalDate;
4 import java.util.ArrayList;
5 import java.util.List;
6
7 import org.springframework.beans.factory.annotation.Autowired;
8 import org.springframework.stereotype.Service;
9
10 import com.spring.web.SportyShoes.entity.Product;
11 import com.spring.web.SportyShoes.entity.Category;
12 import com.spring.web.SportyShoes.entity.Purchase;
13 import com.spring.web.SportyShoes.entity.PurchaseItem;
14 import com.spring.web.SportyShoes.dto.PurchaseReportDTO;
15 import com.spring.web.SportyShoes.repository.PurchaseRepository;
16 import com.spring.web.SportyShoes.repository.PurchaseItemRepository;
17 import com.spring.web.SportyShoes.repository.CategoryRepository;
18 import com.spring.web.SportyShoes.repository.PurchaseRepository;
19
20 @Service
21 public class PurchaseService {
22
23     private final PurchaseRepository purchaseRepository;
24     private final PurchaseItemRepository purchaseItemRepository;
25
26     @Autowired
27     public PurchaseService(
28         PurchaseRepository purchaseRepository,
29         PurchaseItemRepository purchaseItemRepository,
30         ProductRepository productRepository,
31
32         CategoryRepository categoryRepository
33     ) {
34         this.purchaseRepository = purchaseRepository;
35         this.purchaseItemRepository = purchaseItemRepository;
36     }
}
```

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/PurchaseService.java - Spring Tool Suite 4

```
34     this.purchaseRepository = purchaseRepository;
35     this.purchaseItemRepository = purchaseItemRepository;
36 }
37
38 public List<PurchaseReportDTO> getPurchaseReports(String category, LocalDate parsedDate) {
39     List<Purchase> purchases;
40
41     if ("".equals(category) && parsedDate == null) {
42         purchases = purchaseRepository.findAll(); // Retrieve all purchases
43         System.out.println("printing all purchases" + purchases);
44     } else if (parsedDate == null) {
45         purchases = purchaseRepository.findByPurchaseItemsProductCategoryCategoryName(category); // Filter by category name
46         System.out.println("purchase by category" + purchases);
47     } else if ("".equals(category)) {
48         purchases = purchaseRepository.findByDate(parsedDate); // Filter by date
49         System.out.println("purchase by date" + purchases);
50     } else {
51         purchases = purchaseRepository.findByPurchaseItemsProductCategoryCategoryNameAndDate(category, parsedDate); // Filter by both category name
52         System.out.println("purchase by category and date" + purchases);
53     }
54
55     // Rest of the code...
56
57
58     List<PurchaseReportDTO> purchaseReports = new ArrayList<>();
59     for (Purchase purchase : purchases) {
60         List<PurchaseItem> purchaseItems = purchaseItemRepository.findByPurchase(purchase); // Retrieve purchase items for the current purchase
61         for (PurchaseItem purchaseItem : purchaseItems) {
62             PurchaseReportDTO report = new PurchaseReportDTO();
63             report.setPurchase_id(purchase.getPurchase_id());
64             report.setUsername(purchase.getUsername());
65             report.setDate(purchase.getDate());
66             report.setTotal_amount(purchase.getTotal_amount());
67
68             // Retrieve additional information from related entities
69         }
70     }
71 }
```

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/PurchaseService.java - Spring Tool Suite 4". The code editor displays Java code for the PurchaseService class, specifically the implementation of the purchaseReports method. The code retrieves purchase reports by first finding purchase items for a given purchase, then creating a PurchaseReportDTO for each item, setting its purchase ID, user name, date, and total amount. It also retrieves the associated product and category for each report. The code is annotated with line numbers from 56 to 91.

```
56
57
58
59     List<PurchaseReportDTO> purchaseReports = new ArrayList<>();
60     for (Purchase purchase : purchases) {
61         List<PurchaseItem> purchaseItems = purchaseItemRepository.findByPurchase(purchase); // Retrieve purchase items for the current purchase
62         for (PurchaseItem purchaseItem : purchaseItems) {
63             PurchaseReportDTO report = new PurchaseReportDTO();
64             report.setPurchase_id(purchase.getPurchase_id());
65             report.setUsername(purchase.getUsername());
66             report.setDate(purchase.getDate());
67             report.setTotal_amount(purchase.getTotal_amount());
68
69             // Retrieve additional information from related entities
70
71             // Retrieve the associated Product
72             Product product = purchaseItem.getProduct();
73             if (product != null) {
74                 report.setProductName(product.getProductName());
75             }
76
77             // Retrieve the associated Category
78             Category category = product.getCategory();
79             if (category != null) {
80                 report.setCategoryName(category.getName());
81             }
82
83             purchaseReports.add(report);
84         }
85     }
86
87     return purchaseReports;
88 }
89
90 }
91
```

UserService Class

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/UserService.java - Spring Tool Suite 4". The code editor displays Java code for the UserService interface. It defines methods for getting all users, finding a user by username, validating a user's credentials, and updating a user's password. The code is annotated with line numbers from 1 to 15.

```
1 //UserService Class
2 package com.spring.web.SportyShoes.service;
3
4 import java.util.List;
5
6 public interface UserService {
7
8     List<User> getAllUsers();
9     User findByUsername(String username);
10    boolean validateUser(String username, String password);
11    void updatePassword(String username, String newPassword);
12
13
14 }
15
```

CategoryServiceImpl Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/impl/CategoryServiceImpl.java - Spring Tool Suite 4

```
File Edit Source Refactor Source Navigate Search Project Run Window Help
PurchaseRepository.java UserRepository.java CategoryService.java ProductService.java PurchaseService.java UserService.java CategoryServiceImpl.java
1 package com.spring.web.SportyShoes.service.impl;
2
3 import java.util.List;
4
5 @Service
6 public class CategoryServiceImpl implements CategoryService{
7     private CategoryRepository categoryRepository;
8
9     public CategoryServiceImpl (CategoryRepository categoryRepository) {
10         super();
11         this.categoryRepository = categoryRepository;
12     }
13     public List<Category> getAllCategories() {
14         return categoryRepository.findAll();
15     }
16 }
17
18 }
```

Writable Smart Insert | 23:1:670 | 23:10 7/13/2023

UserServiceImpl Class

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/impl/UserServiceImpl.java - Spring Tool Suite 4

```
File Edit Source Refactor Source Navigate Search Project Run Window Help
PurchaseRepository.java UserRepository.java CategoryService.java ProductService.java PurchaseService.java UserService.java CategoryService.java ProductService.java PurchaseService.java UserServiceImpl.java
1 //UserServiceImpl Class
2 package com.spring.web.SportyShoes.service.impl;
3
4 import java.util.List;
5
6 @Service
7 public class UserServiceImpl implements UserService{
8     @Autowired
9     private UserRepository userRepository;
10
11     public UserServiceImpl (UserRepository userRepository) {
12         super();
13         this.userRepository = userRepository;
14     }
15
16     @Override
17     public User findByUsername(String username) {
18         return userRepository.findByUsername(username);
19     }
20
21     @Override
22     public List<User> getAllUsers() {
23         return userRepository.findAll();
24     }
25
26     public boolean validateUser(String username, String password) {
27         User user = userRepository.findByUsername(username);
28         if (user != null) {
29             if (user.getPassword().equals(password)) {
30                 return true;
31             }
32         }
33         return false;
34     }
35
36     public void updatePassword(String username, String newPassword) {
37
38 }
```

Writable Smart Insert | 23:1:628 | 23:11 7/13/2023

eclipse-workspace - SportyShoes/src/main/java/com/spring/web/SportyShoes/service/impl/UserServiceImpl.java - Spring Tool Suite 4

```

13 @Service
14 public class UserServiceImpl implements UserService{
15
16     @Autowired
17     private UserRepository userRepository;
18
19     public UserServiceImpl (UserRepository userRepository) {
20         super();
21         this.userRepository = userRepository;
22     }
23
24     @Override
25     public User findByUsername(String username) {
26         return userRepository.findByUsername(username);
27     }
28
29     @Override
30     public List<User> getAllUsers() {
31         return userRepository.findAll();
32     }
33
34     public boolean validateUser(String username, String password) {
35         User user = userRepository.findByUsername(username);
36         if (user != null) {
37             if (user.getPassword().equals(password)) {
38                 return true;
39             }
40         }
41         return false;
42     }
43
44     public void updatePassword(String username, String newPassword) {
45         User user = userRepository.findByUsername(username);
46         user.setPassword(newPassword);
47         userRepository.save(user);
48 }

```

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23:12 7/13/2023

Templates

AddProduct.html

eclipse-workspace - SportyShoes/src/main/resources/templates/AddProduct.html - Spring Tool Suite 4

```

1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org">
3 <head>
4     <meta charset="ISO-8859-1">
5     <title>sportyshoes.com</title>
6     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
7         integrity="sha384-Gn5384xqQlaoWKA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">
8 </head>
9 <body>
10 <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
11     <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
12     <a class="navbar-brand" th:href="@{/index}">Logout</a>
13 </nav>
14 <br><br>
15 <div class="container">
16     <div class="row justify-content-center">
17         <div class="card" style="width: 50%; ">
18             <h2 class="card-header text-center">Add New Product</h2>
19             <div class="card-body">
20                 <form th:action="@{/ViewProduct}" th:object="${product}" method="POST">
21                     <div class="form-group">
22                         <label>Product Name</label>
23                         <input type="text" name="product_name" th:field="*(productName)" class="form-control"
24                             placeholder="Product Name" required/>
25                     </div>
26                     <div class="form-group">
27                         <label>Description</label>
28                         <input type="text" name="description" th:field="*(description)" class="form-control"
29                             placeholder="Description" required/>
30                     </div>
31                     <div class="form-group">
32                         <label for="category">Select Category:</label>
33                         <select id="category" name="category" class="form-control">
34                             <option th:each="category : ${categories}" th:value="${category.category_id}"
35                             th:text="${category.categoryName}"></option>
36                         </select>

```

html/body/#text Writable | Smart Insert | 13:7:585

23:12 7/13/2023

```
eclipse-workspace - SportyShoes/src/main/resources/templates/AddProduct.html - Spring Tool Suite 4
File Edit Source Source Navigate Search Project Run Window Help
PurchaseRepo... UserRepository... CategoryServ... ProductServ... PurchaseServ... UserService... CategoryServ... ProductServ... PurchaseServ... UserService... AddProduct.html x
19<div class="card-body">
20    <form th:action="@{/ViewProduct}" th:object="${product}" method="POST">
21        <div class="form-group">
22            <label>Product Name</label>
23            <input type="text" name="product_name" th:field="*(productName)" class="form-control"
24                placeholder="Product Name" required/>
25        </div>
26        <div class="form-group">
27            <label>Description</label>
28            <input type="text" name="description" th:field="*(description)" class="form-control"
29                placeholder="Description" required/>
30        </div>
31        <div class="form-group">
32            <label for="category">Select Category:</label>
33            <select id="category" name="category" class="form-control">
34                <option th:each="category : ${categories}" th:value="${category.category_id}"
35                    th:text="${category.categoryName}"></option>
36            </select>
37        </div>
38        <div class="form-group">
39            <label>Price</label>
40            <input type="text" name="price" th:field="*(price)" class="form-control"
41                placeholder="Price" required/>
42        </div>
43        <div class="footer-body">
44            <button type="submit" class="btn btn-primary">Submit</button>
45        </div>
46    </form>
47</div>
48</div>
49</div>
50</div>
51</body>
52</html>
53
```

AdminDashboard.html

eclipse-workspace - SportyShoes/src/main/resources/templates/AdminDashboard.html - Spring Tool Suite 4

```
File Edit Source Source Navigate Search Project Run Window Help
[CategoryServ... ProductServ... PurchaseServ... UserService... CategoryServ... ProductServ... PurchaseServ... UserServicel... AddProduct.html AdminDashbo...
1 <!DOCTYPE html>
2<html xmlns:th="http://www.thymeleaf.org">
3<head>
4    <meta charset="ISO-8859-1">
5    <title>sportyshoes.com</title>
6    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5384xqQlaowXa+058RXPxPg6fy4IV"
7</head>
8<body>
9<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
10   <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
11   <a class="navbar-brand" th:href="@{/index}">Logout</a>
12</nav>
13<!-- <nav class="navbar navbar-expand-lg navbar-light bg-light" -->
14
15<div class="nav-section" style="margin-top: 20px; margin-left: 50px;">
16   <h2 class="text-center">Administrator Dashboard</h2>
17   <ul class="navbar-nav me-auto mb-2 mb-lg-0 text-center">
18     <li class="nav-item"><a class="nav-link" href="#">Add Products</a></li>
19     <li class="nav-item"><a class="nav-link" href="#">View Products</a></li>
20     <li class="nav-item"><a class="nav-link" href="#">Browse and search users</a></li>
21     <li class="nav-item"><a class="nav-link" href="#">See purchase report</a></li>
22   </ul>
23 </div>
24</body>
25</html>
```

ChangePassword.html

eclipse-workspace - SportyShoes/src/main/resources/templates/ChangePassword.html - Spring Tool Suite 4

```
File Edit Source Source Navigate Search Project Run Window Help
ProductServ... PurchaseServ... UserService... CategoryServ... ProductServ... PurchaseServ... UserService... AddProduct.html AdminDashbo... ChangePasswo...
1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org">
3 <head>
4   <meta charset="ISO-8859-1">
5   <title>sportyshoes.com</title>
6   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5z84xQlaeWXA+058RXPxPg6fyIV"/>
7 </head>
8 <body>
9   <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
10    <a class="navbar-brand" th:href="@{ChangePassword}">sportyshoes.com</a>
11    <a class="navbar-brand" th:href="@{/index}">Login</a>
12  </nav>
13 <br><br>
14 <div class="container">
15   <div class="row justify-content-center">
16     <div class="card" style="width: 50%;>
17       <h3 class="card-header text-center">Password Reset</h3>
18       <p th:if="${errorMessage}">
19         <span th:text="${errorMessage}"></span>
20       </p>
21       <div class="row justify-content-center">
22         <div class="col-sm-6">
23           <br>
24           <form action="/resetPassword" method="POST">
25             <div class="form-group">
26               <label for="username">Enter your Username:</label>
27               <input type="text" class="form-control" name="username" required>
28             </div>
29             <div class="form-group">
30               <label for="password">New Password:</label>
31               <input type="password" class="form-control" name="newPassword" required>
32             </div>
33             <div class="form-group">
34               <label for="confirmPassword">Confirm Password:</label>
35               <input type="password" class="form-control" id="confirmPassword" name="confirmPassword" required>
36             </div>
37           <br>
38           <button type="submit" class="btn btn-primary">Submit</button><br><br>
39         </form>
40       </div>
41     </div>
42   </div>
43 </div>
44 </div>
45 </html>
```

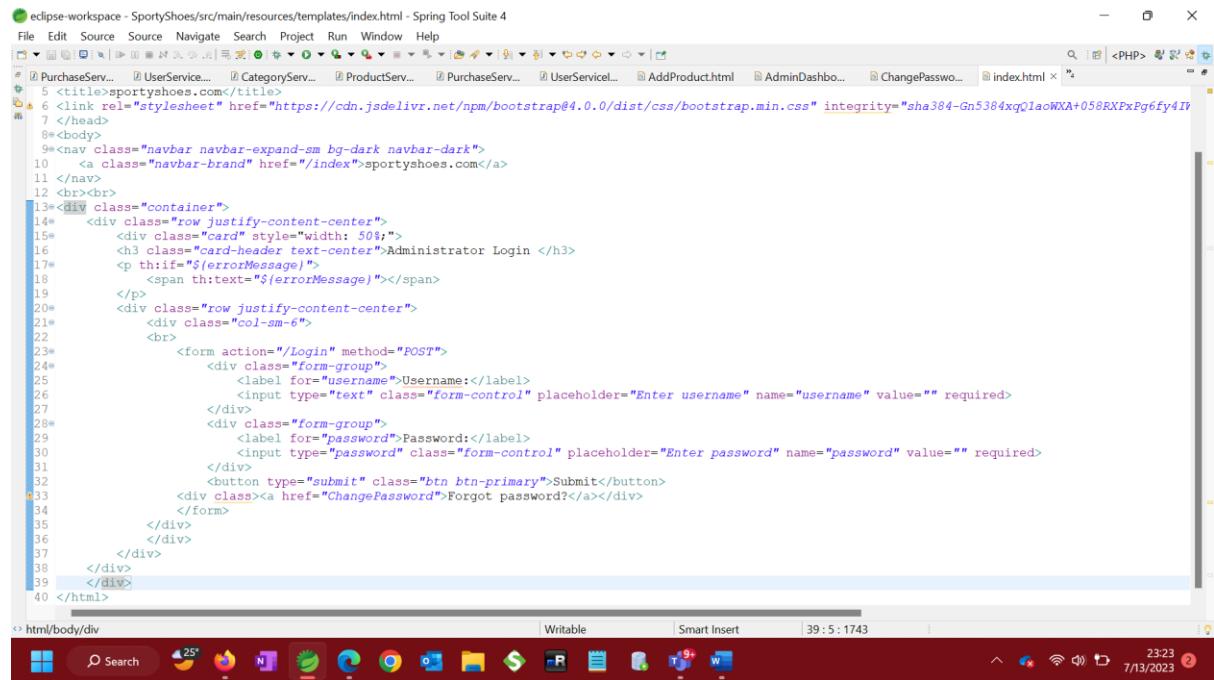
html/body/div/div/div/p#text Writable Smart Insert | 19:52:819 | 23:17 7/13/2023

eclipse-workspace - SportyShoes/src/main/resources/templates/ChangePassword.html - Spring Tool Suite 4

```
File Edit Source Source Navigate Search Project Run Window Help
ProductServ... PurchaseServ... UserService... CategoryServ... ProductServ... PurchaseServ... UserService... AddProduct.html AdminDashbo... ChangePasswo...
10  <a class="navbar-brand" th:href="@{ChangePassword}">sportyshoes.com</a>
11  <a class="navbar-brand" th:href="@{/index}">Login</a>
12 </nav>
13 <br><br>
14 <div class="container">
15   <div class="row justify-content-center">
16     <div class="card" style="width: 50%;>
17       <h3 class="card-header text-center">Password Reset</h3>
18       <p th:if="${errorMessage}">
19         <span th:text="${errorMessage}"></span>
20       </p>
21       <div class="row justify-content-center">
22         <div class="col-sm-6">
23           <br>
24           <form action="/ResetPassword" method="POST">
25             <div class="form-group">
26               <label for="username">Enter your Username:</label>
27               <input type="text" class="form-control" name="username" required>
28             </div>
29             <div class="form-group">
30               <label for="password">New Password:</label>
31               <input type="password" class="form-control" name="newPassword" required>
32             </div>
33             <div class="form-group">
34               <label for="confirmPassword">Confirm Password:</label>
35               <input type="password" class="form-control" id="confirmPassword" name="confirmPassword" required>
36             </div>
37           <br>
38           <button type="submit" class="btn btn-primary">Submit</button><br><br>
39         </form>
40       </div>
41     </div>
42   </div>
43 </div>
44 </div>
45 </html>
```

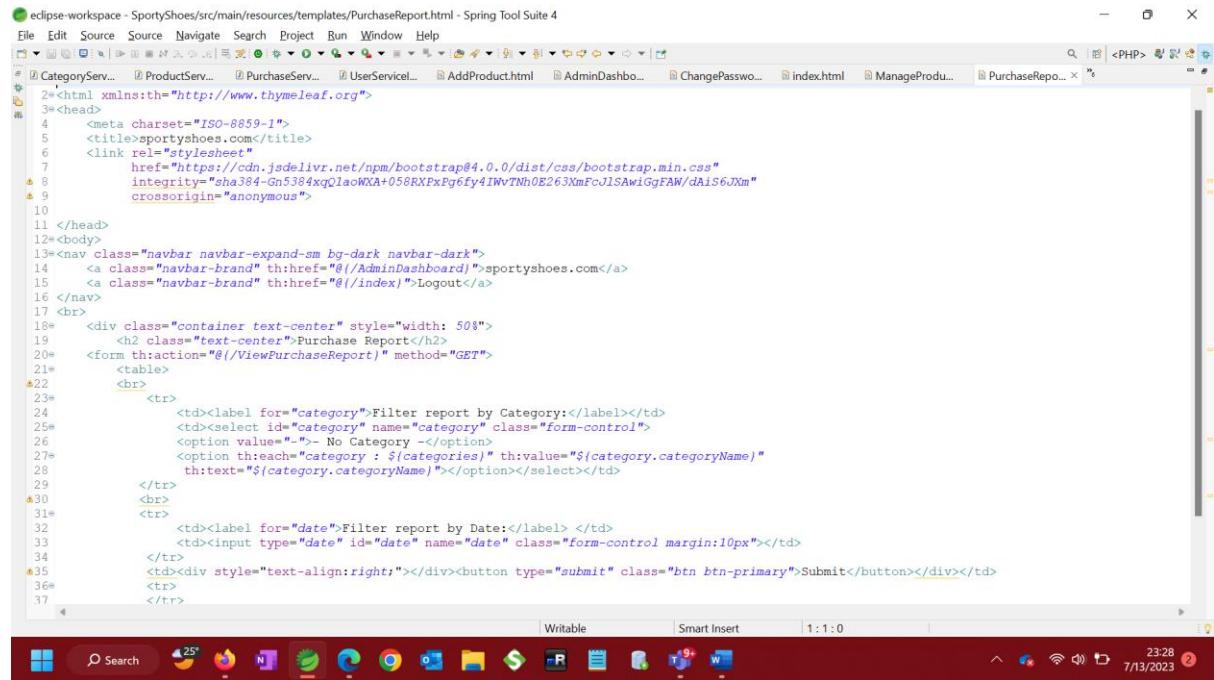
html/body/div/div/div/p#text Writable Smart Insert | 44:11:1930 | 23:18 7/13/2023

Index.html



```
1 eclipse-workspace - SportyShoes/src/main/resources/templates/index.html - Spring Tool Suite 4
File Edit Source Source Navigate Search Project Run Window Help
2 PurchaseServ... UserService... CategoryServ... ProductServ... PurchaseServ... UserService... AddProduct.html AdminDashbo... ChangePasswo... index.html
3 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5384xqQlaowXA+058RXPxPg6fy4IV"
4 </head>
5 <body>
6 <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
7   <a class="navbar-brand" href="/index">>sportyshoes.com</a>
8 </nav>
9 <br><br>
10 <div class="container">
11   <div class="row justify-content-center">
12     <div class="card" style="width: 50%;>
13       <h3 class="card-header text-center">Administrator Login </h3>
14       <p th:if="${errorMessage}">
15         <span th:text="${errorMessage}"></span>
16       </p>
17       <div class="row justify-content-center">
18         <div class="col-sm-6">
19           <form action="/Login" method="POST">
20             <div class="form-group">
21               <label for="username">Username:</label>
22               <input type="text" class="form-control" placeholder="Enter username" name="username" value="" required>
23             </div>
24             <div class="form-group">
25               <label for="password">Password:</label>
26               <input type="password" class="form-control" placeholder="Enter password" name="password" value="" required>
27             </div>
28             <button type="submit" class="btn btn-primary">Submit</button>
29           <div class="text-right"><a href="ChangePassword">Forgot password?</a></div>
30         </form>
31       </div>
32     </div>
33   </div>
34 </div>
35 </div>
36 </div>
37 </div>
38 </div>
39 </div>
40 </html>
```

PurchaseReport.html



```
1 eclipse-workspace - SportyShoes/src/main/resources/templates/PurchaseReport.html - Spring Tool Suite 4
File Edit Source Source Navigate Search Project Run Window Help
2 CategoryServ... ProductServ... PurchaseServ... UserService... AddProduct.html AdminDashbo... ChangePasswo... index.html ManageProdu... PurchaseRepo... PurchaseReport.html
3 <html xmlns:th="http://www.thymeleaf.org">
4   <head>
5     <meta charset="ISO-8859-1">
6     <title>sportyshoes.com</title>
7     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5384xqQlaowXA+058RXPxPg6fy4IVtNhb0E263XmfvJlSAwiGgFAW/dAIS6OJm" crossorigin="anonymous">
8   </head>
9   <body>
10    <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
11      <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
12      <a class="navbar-brand" th:href="@{/index}">Logout</a>
13    </nav>
14    <br>
15    <div class="container text-center" style="width: 50%;>
16      <h2 class="text-center">Purchase Report</h2>
17      <form th:action="@{/ViewPurchaseReport}" method="GET">
18        <table>
19          <tr>
20            <td><label for="category">Filter report by Category:</label></td>
21            <td><select id="category" name="category" class="form-control">
22              <option value="-"> No Category </option>
23              <option th:each="category : ${categories}" th:value="${category.categoryName}" th:text="${category.categoryName}"></option></select></td>
24            </td>
25          </tr>
26          <tr>
27            <td><label for="date">Filter report by Date:</label> </td>
28            <td><input type="date" id="date" name="date" class="form-control margin:10px"></td>
29          </tr>
30        </table>
31        <div style="text-align:right;"></div><button type="submit" class="btn btn-primary">Submit</button></div></td>
32      </tr>
33    </table>
34  </div>
35 </tr>
36 </table>
37 </div>
```

eclipse-workspace - SportyShoes/src/main/resources/templates/PurchaseReport.html - Spring Tool Suite 4

```

1</head>
2<body>
3<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
4    <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
5    <a class="navbar-brand" th:href="@{/index}">Logout</a>
6</nav>
7<br>
8<div class="container text-center" style="width: 50%;>
9    <h2 class="text-center">Purchase Report</h2>
10   <form th:action="@{/ViewPurchaseReport}" method="GET">
11     <table>
12       <tr>
13         <td><label for="category">Filter report by Category:</label></td>
14         <td><select id="category" name="category" class="form-control">
15             <option value="-"> No Category </option>
16             <option th:each="category : ${categories}" th:value="${category.categoryName}">
17                 th:text="${category.categoryName}"</option></select></td>
18         </tr>
19       <br>
20       <tr>
21         <td><label for="date">Filter report by Date:</label> </td>
22         <td><input type="date" id="date" name="date" class="form-control margin:10px;"></td>
23       </tr>
24       <td><div style="text-align:right;"></div><button type="submit" class="btn btn-primary">Submit</button></div></td>
25     </table>
26   </form>
27 </div>
28 </body>
29 </html>
30
31
32
33
34
35
36
37
38
39
40
41
42
43

```

DOCTYPEhtml

Writable Smart Insert 1:1:0

23:28 7/13/2023

UpdateProduct.html

eclipse-workspace - SportyShoes/src/main/resources/templates/UpdateProduct.html - Spring Tool Suite 4

```

1<!DOCTYPE html>
2<html xmlns:th="http://www.thymeleaf.org">
3<head>
4    <meta charset="ISO-8859-1">
5    <title>sportyshoes.com</title>
6    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5384xqQIacWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6Jkm"
7</head>
8<body>
9<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
10   <a class="navbar-brand" th:href="@{/AddProduct}">sportyshoes.com</a>
11   <a class="navbar-brand" th:href="@{/index}">Logout</a>
12 </nav>
13 <br><br>
14 <div class="container">
15   <div class="row justify-content-center">
16     <div class="card" style="width: 50%;>
17       <h2 class="card-header text-center">Update Product</h2>
18       <div class="card-body">
19         <form th:action="@{/ViewProduct/{product_id}}(product_id=${product.product_id})" th:object="${product}" method="POST">
20           <div class="form-group">
21             <label>Product Name</label>
22             <input type="text" name="product_name" th:field="*(productName)" class="form-control" placeholder="product name"/>
23           </div>
24           <div class="form-group">
25             <label>Description</label>
26             <input type="text" name="description" th:field="*(description)" class="form-control" placeholder="description"/>
27           </div>
28           <div class="form-group">
29             <label>Category</label>
30             <select id="category" name="category" class="form-control">
31                 <option th:each="category : ${categories}" th:value="${category.category_id}" th:text="${category.categoryName}" th:selected="*>
32             </select>
33           </div>
34           <div class="form-group">
35             <label>Price</label>
36             <input type="text" name="price" th:field="*(price)" class="form-control" placeholder="price"/>

```

html/body/#text

Writable Smart Insert 13:9:566

23:29 7/13/2023

eclipse-workspace - SportyShoes/src/main/resources/templates/UpdateProduct.html - Spring Tool Suite 4

```
12 </nav>
13 <br><br>
14<div class = "container">
15    <div class = "row justify-content-center">
16        <div class="card" style="width: 50%;>
17            <h2 class="card-header text-center">Update Product</h2>
18            <div class = "card-body">
19                <form th:action="@{/ViewProduct/{product_id}}(product_id=${product.product_id})" th:object="${product}" method="POST">
20                    <div class="form-group">
21                        <label>Product Name</label>
22                        <input type = "text" name= "product_name" th:field = "*{productName}" class= "form-control" placeholder="product name"/>
23                    </div>
24                    <div class="form-group">
25                        <label>Description</label>
26                        <input type = "text" name= "description" th:field = "*{description}" class= "form-control" placeholder="description"/>
27                    </div>
28                    <div class="form-group">
29                        <label for="category">Category</label>
30                        <select id="category" name="category" class="form-control">
31                            <option th:each="category : ${categories}" th:value="${category.category_id}" th:text="${category.categoryName}" th:selected="&gt;
32                        </select>
33                    </div>
34                    <div class="form-group">
35                        <label>Price</label>
36                        <input type = "text" name= "price" th:field = "*{price}" class= "form-control" placeholder="price"/>
37                    </div>
38                    <div class="footer-body">
39                        <button type = "submit" class = "btn btn-primary">Submit</button>
40                    </div>
41                </form>
42            </div>
43        </div>
44    </div>
45</body>
46</html>
```

html/body/div/div/div/div/form/th:action | Writable | Smart Insert | 19:42:824 | 23:32 7/13/2023

ViewProduct.html

eclipse-workspace - SportyShoes/src/main/resources/templates/ViewProduct.html - Spring Tool Suite 4

```
1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org">
3 <head>
4     <meta charset="ISO-8859-1">
5     <title>sportyshoes.com</title>
6     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5z84xqQIacWXA+058RXPxPg6fy4IV" th:href="@{bootstrap}">
7 </head>
8 <body>
9     <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
10        <a class="navbar-brand" th:href="@{/AdminDashboard}"/>sportyshoes.com</a>
11        <a class="navbar-brand" th:href="@{/index}"/>Logout</a>
12    </nav>
13    <br><br>
14    <div class = "container">
15        <div class = "row text-center">
16            <h2>View Products</h2>
17        </div>
18        <table class = "table table-striped table-bordered">
19            <thead class = "dark">
20                <tr>
21                    <th>Product Name</th>
22                    <th>Description</th>
23                    <th>Category</th>
24                    <th>Price</th>
25                    <th>Actions</th>
26                </tr>
27            </thead>
28            <tbody>
29                <tr th:each="product: ${products}">
30                    <td th:text = "${product.productName}"></td>
31                    <td th:text = "${product.description}"></td>
32                    <td th:text = "${product.category.categoryName}"></td>
33                    <td th:text = "${product.price}"></td>
34                    <td>
35                        <a th:href = "@{/ViewProduct/edit/{product_id}}(product_id = ${product.product_id})" th:object="${product}" class = "btn btn-primary">Update</a>
36                    </td>
37                </tr>
38            </tbody>
39        </table>
40    </div>
41</body>
```

html/body/div/#text | Writable | Smart Insert | 17:15:670 | 23:32 7/13/2023

eclipse-workspace - SportyShoes/src/main/resources/templates/ViewProduct.html - Spring Tool Suite 4

```
File Edit Source Source Navigate Search Project Run Window Help
PurchaseServ... UserService... AddProduct.html AdminDashbo... ChangePasswo... index.html ManageProdu... PurchaseRepo... UpdateProdu... ViewProduct...
10 <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
11 <a class="navbar-brand" th:href="@{/index}">Logout</a>
12 <br><br>
13 <br><br>
14 <div class = "container">
15   <div class = "row text-center">
16     <h2>View Products</h2>
17   </div>
18   <table class = "table table-striped table-bordered">
19     <thead class = "dark">
20       <tr>
21         <th>Product Name</th>
22         <th>Description</th>
23         <th>Category</th>
24         <th>Price</th>
25         <th>Actions</th>
26       </tr>
27     </thead>
28     <tbody>
29       <tr th:each="product: ${products}">
30         <td th:text ="${product.productName}"></td>
31         <td th:text ="${product.description}"></td>
32         <td th:text ="${product.category.categoryName}"></td>
33         <td th:text ="${product.price}"></td>
34         <td>
35           <a th:href = "@{/ViewProduct/edit/{product_id}}(product_id = ${product.product_id})" class = "btn btn-primary">Update</a>
36           <a th:href = "@{/ViewProduct/delete/{product_id}}(product_id = ${product.product_id})" class = "btn btn-danger">Delete</a>
37         </td>
38       </tr>
39     </tbody>
40   </table>
41 </div>
42 </div>
43 </body>
44 </html>
```

html/body/div#text Writable Smart Insert 17:15:670 23:33 7/13/2023

ViewPurchaseReport.html

eclipse-workspace - SportyShoes/src/main/resources/templates/ViewPurchaseReport.html - Spring Tool Suite 4

```
File Edit Source Source Navigate Search Project Run Window Help
PurchaseServ... UserService... AddProduct.html AdminDashbo... ChangePasswo... index.html ManageProdu... PurchaseRepo... UpdateProdu... ViewProduct...
1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org">
3   <head>
4     <meta charset="ISO-8859-1">
5     <title>sportyshoes.com</title>
6     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5z84xqQlaoWXA+058RXPxPg6fy4IV" type="text/css"/>
7   </head>
8   <body>
9     <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
10       <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
11       <a class="navbar-brand" th:href="@{/index}">Logout</a>
12     </nav>
13     <br><br>
14     <div class = "container">
15       <div class = "row text-center">
16         <h2>Purchase Report</h2>
17       </div>
18       <table class = "table table-striped table-bordered">
19         <thead class = "dark">
20           <tr>
21             <th>Purchase Id</th>
22             <th>Username</th>
23             <th>Category Name</th>
24             <th>Date</th>
25             <th>Total Amount</th>
26             <th>Product Name</th>
27             <th>Description</th>
28           </tr>
29         </thead>
30         <tbody>
31           <tr th:each="purchase: ${purchaseReports}">
32             <td th:text ="${purchase.purchase_id}"></td>
33             <td th:text ="${purchase.username}"></td>
34             <td th:text ="${purchase.categoryName}"></td>
35             <td th:text ="${purchase.date}"></td>
36             <td th:text ="${purchase.total_amount}"></td>
37           </tr>
38         </tbody>
39       </table>
40     </div>
41   </body>
42 </html>
```

html/body/div#text Writable Smart Insert 9:58:416 23:33 7/13/2023

eclipse-workspace - SportyShoes/src/main/resources/templates/ViewPurchaseReport.html - Spring Tool Suite 4

```

1<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
2  <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
3  <a class="navbar-brand" th:href="@{/index}">Logout</a>
4</nav>
5<br><br>
6<div class = "container">
7  <div class = "row text-center">
8    <h2>Purchase Report</h2>
9</div>
10<table class = "table table-striped table-bordered">
11  <thead class = "dark">
12    <tr>
13      <th>Purchase Id</th>
14      <th>Username</th>
15      <th>Category Name</th>
16      <th>Date</th>
17      <th>Total Amount</th>
18      <th>Product Name</th>
19      <th>Description</th>
20    </tr>
21  </thead>
22  <tbody>
23    <tr th:each="purchase: ${purchaseReports}">
24      <td th:text ="${purchase.purchase_id}"></td>
25      <td th:text ="${purchase.username}"></td>
26      <td th:text ="${purchase.categoryName}"></td>
27      <td th:text ="${purchase.date}"></td>
28      <td th:text ="${purchase.total_amount}"></td>
29      <td th:text ="${purchase.productName}"></td>
30      <td th:text ="${purchase.description}"></td>
31    </tr>
32  </tbody>
33</table>
34</div>
35</body>
36</html>

```

html/body/nav/#text Writable Smart Insert 9 : 58 : 416

23:33 7/13/2023

View User.html

eclipse-workspace - SportyShoes/src/main/resources/templates/ViewUser.html - Spring Tool Suite 4

```

1<!DOCTYPE html>
2<html xmlns:th="http://www.thymeleaf.org">
3<head>
4  <meta charset="ISO-8859-1">
5  <title>sportyshoes.com</title>
6  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5z84xqQlaoWXA+058RXPxPg6fy4IV" />
7</head>
8<body>
9<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
10   <a class="navbar-brand" th:href="@{/AdminDashboard}">sportyshoes.com</a>
11   <a class="navbar-brand" th:href="@{/index}">Logout</a>
12</nav>
13<form th:action="@{/ViewUser/search}">
14  <div class="input-group rounded">
15    <input type="search" class="form-control rounded" placeholder="Enter Username" aria-label="Search" aria-describedby="search-addon" name = "username">
16    <button type="submit" class="rounded">Search</button>
17  </div>
18</form>
19<br><br>
20<div class = "container" th:if="${searchResult}">
21  <div class = "row text-center">
22    <h2>View Users</h2>
23  </div>
24<table class = "table table-striped table-bordered">
25  <thead class = "dark">
26    <tr>
27      <th>Username</th>
28      <th>Email Address</th>
29      <th>Location</th>
30    </tr>
31  </thead>
32  <tbody>
33    <tr>
34      <td th:text ="${searchResult.username}"></td>
35      <td th:text ="${searchResult.email_address}"></td>
36      <td th:text ="${searchResult.location}"></td>
37    </tr>
38  </tbody>
39</table>

```

html/body/#text Writable Smart Insert 19 : 9 : 866

23:34 7/13/2023

eclipse-workspace - SportyShoes/src/main/resources/templates/ViewUser.html - Spring Tool Suite 4

```
File Edit Source Source Navigate Search Project Run Window Help
AddProduct.html AdminDashbo... ChangePasswo... index.html ManageProdu... PurchaseRepo... UpdateProdu... ViewProduct... ViewPurchas... ViewUser.html

31     </thead>
32     <tbody>
33         <tr>
34             <td th:text = "${searchResult.username}"></td>
35             <td th:text = "${searchResult.email_address}"></td>
36             <td th:text = "${searchResult.location}"></td>
37         </tr>
38     </tbody>
39   </table>
40   <div class="text-center">
41     <a href="/ViewUser" class="btn btn-primary">View All Users</a>
42   </div>
43   <!-- Display all user if search result is null -->
44   <div class = "container" th:unless="${searchResult}">
45     <div class = ""><h1>View Users</h1></div>
46
47     <table class = "table table-striped table-bordered">
48       <thead class = "dark">
49         <tr>
50             <th>Username</th>
51             <th>Email Address</th>
52             <th>Location</th>
53         </tr>
54     </thead>
55     <tbody>
56         <tr th:each="user: ${users}">
57             <td th:text = "${user.username}"></td>
58             <td th:text = "${user.email_address}"></td>
59             <td th:text = "${user.location}"></td>
60         </tr>
61     </tbody>
62   </table>
63 </div>
64 </body>
65 </html>
```

html/body/#text Writable Smart Insert 19:9:886



23:34 7/13/2023