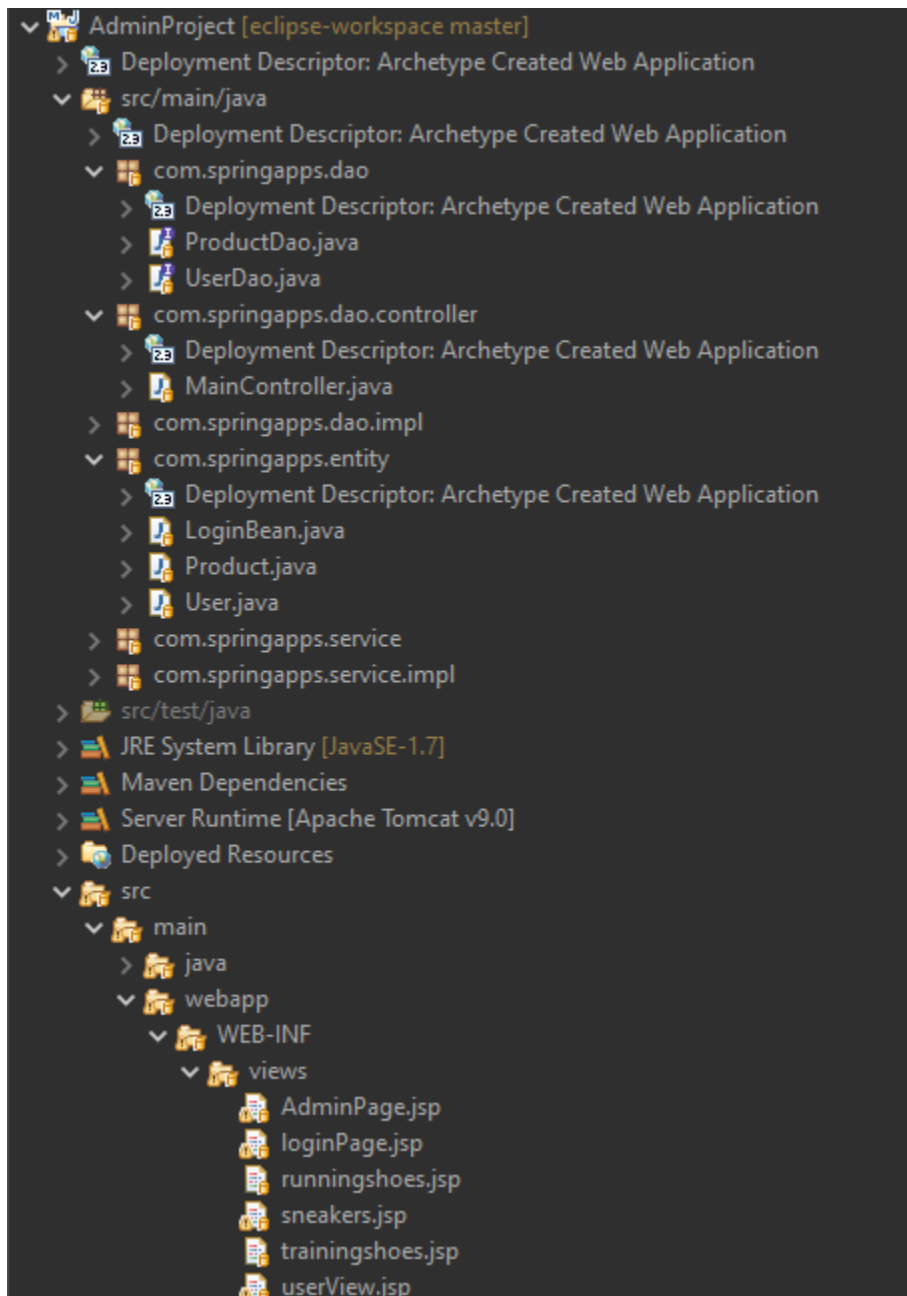


Directory Structure:



Main Controller:

```
eclipse-workspace - AdminProject/src/main/java/com/springapps/dao/controller/MainController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

MainController.java X Product.java User.java LoginBean.java AdminPage.jsp loginPage.jsp *ProductDaoImpl.java

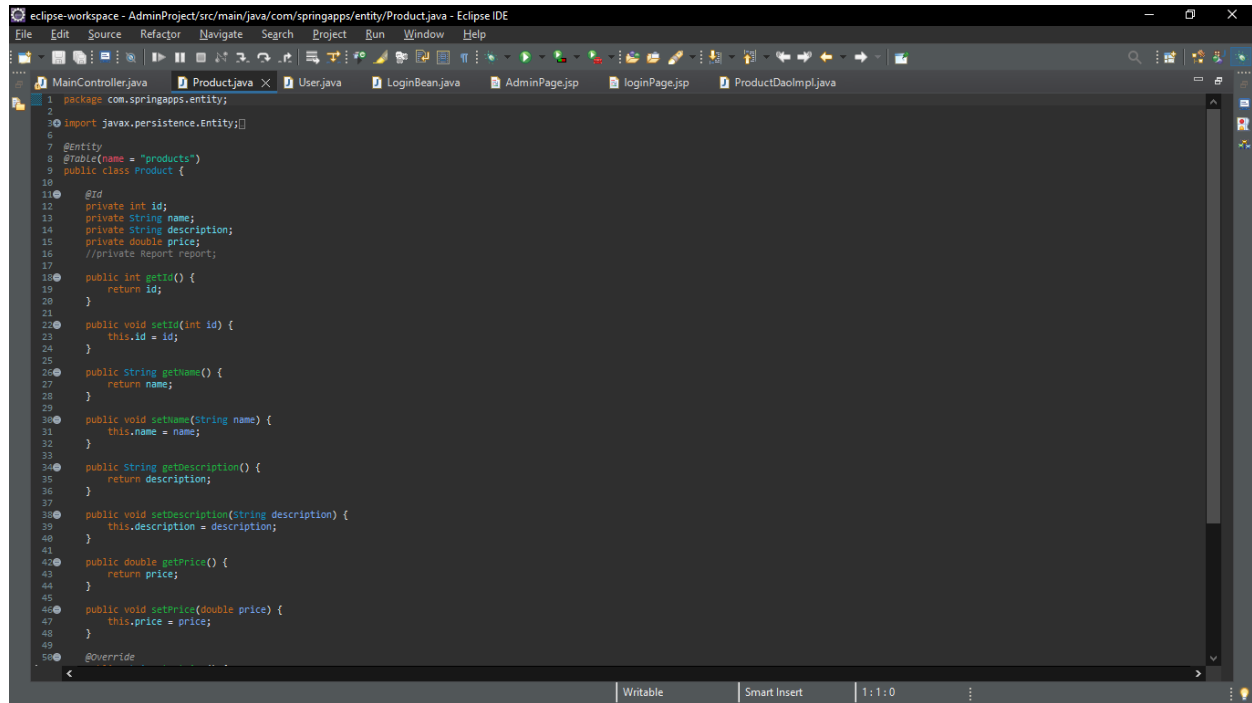
1 package com.springapps.dao.controller;
2
30 import java.util.List;
31
32 @Controller
33 public class MainController {
34
35     @Autowired
36     ProductService productService;
37     @Autowired
38     UserService userService;
39
40     @RequestMapping("/login")
41     public String showLoginPage() {
42         return "loginPage";
43     }
44
45     @RequestMapping(value = "adminlogin", method = RequestMethod.POST)
46     public String showAdminPage(ModelMap model, @ModelAttribute("loginBean") LoginBean loginBean) {
47         if (loginBean != null && loginBean.getName() != null && loginBean.getPassword() != null) {
48             if (loginBean.getName().equals("admin") && loginBean.getPassword().equals("root")) {
49                 List<Product> products = productService.getProducts();
50                 model.addAttribute("products", products);
51                 return "AdminPage";
52             } else {
53                 model.addAttribute("error", "invalid details");
54                 return "loginPage";
55             }
56         } else {
57             model.addAttribute("error", "Please enter the details");
58             return "loginPage";
59         }
60     }
61
62     @RequestMapping(value = "/user")
63     public String showUsers(Model m) {
64         return "userView";
65     }
66
67     @RequestMapping(value = "/trainingshoes")
68 }
```

```
eclipse-workspace - AdminProject/src/main/java/com/springapps/dao/controller/MainController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

MainController.java X Product.java User.java LoginBean.java AdminPage.jsp loginPage.jsp *ProductDaoImpl.java

33 @RequestMapping(value = "adminlogin", method = RequestMethod.POST)
34 public String showAdminPage(ModelMap model, @ModelAttribute("loginBean") LoginBean loginBean) {
35     if (loginBean != null && loginBean.getName() != null && loginBean.getPassword() != null) {
36         if (loginBean.getName().equals("admin") && loginBean.getPassword().equals("root")) {
37             List<Product> products = productService.getProducts();
38             model.addAttribute("products", products);
39             return "AdminPage";
40         } else {
41             model.addAttribute("error", "invalid details");
42             return "loginPage";
43         }
44     } else {
45         model.addAttribute("error", "Please enter the details");
46         return "loginPage";
47     }
48 }
49
50 @RequestMapping(value = "/user")
51 public String showUsers(Model m) {
52     return "userView";
53 }
54
55 @RequestMapping(value = "/trainingshoes")
56 public String showTshoes(Model m) {
57     return "trainingshoes";
58 }
59
60 @RequestMapping(value = "/runningshoes")
61 public String showRshoes(Model m) {
62     return "runningshoes";
63 }
64
65 @RequestMapping(value = "/sneakers")
66 public String showSneakers(Model m) {
67     return "sneakers";
68 }
69
70 }
71
72
73
74 }
```

Product Entity:

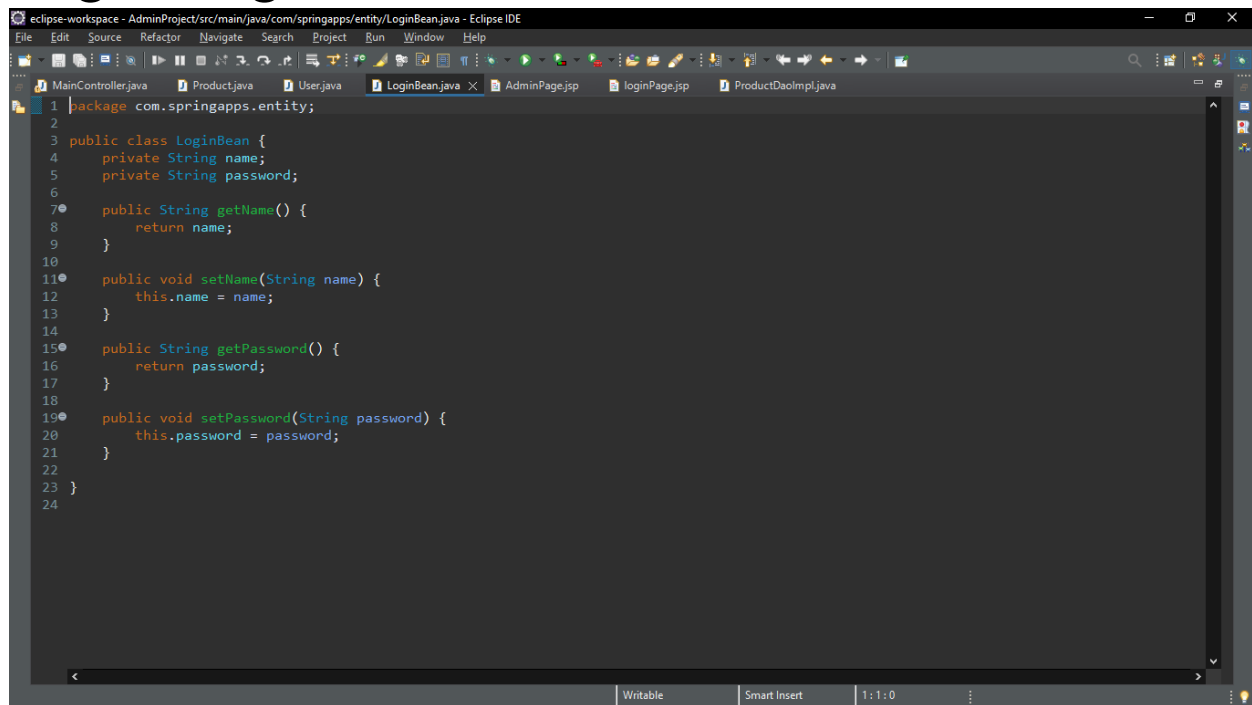


The screenshot shows the Eclipse IDE interface with the 'Product.java' file open. The file is located at 'AdminProject/src/main/java/com/springapps/entity/Product.java'. The code defines a JPA Entity named 'Product' with the following attributes and methods:

```
1 package com.springapps.entity;
2
3 import javax.persistence.Entity;
4
5 @Entity
6 @Table(name = "products")
7 public class Product {
8
9     @Id
10     private int id;
11     private String name;
12     private String description;
13     private double price;
14     //private Report report;
15
16     public int getId() {
17         return id;
18     }
19
20     public void setId(int id) {
21         this.id = id;
22     }
23
24     public String getName() {
25         return name;
26     }
27
28     public void setName(String name) {
29         this.name = name;
30     }
31
32     public String getDescription() {
33         return description;
34     }
35
36     public void setDescription(String description) {
37         this.description = description;
38     }
39
40     public double getPrice() {
41         return price;
42     }
43
44     public void setPrice(double price) {
45         this.price = price;
46     }
47
48     @Override
49     public String toString() {
50         return "Product [id=" + id + ", name=" + name + ", description=" + description + ", price=" + price + "]";
51     }
52 }
```

The IDE interface includes a menu bar (File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help), a toolbar with various icons, and a project explorer on the left showing the project structure. The status bar at the bottom indicates 'Writable', 'Smart Insert', and '1:1:0'.

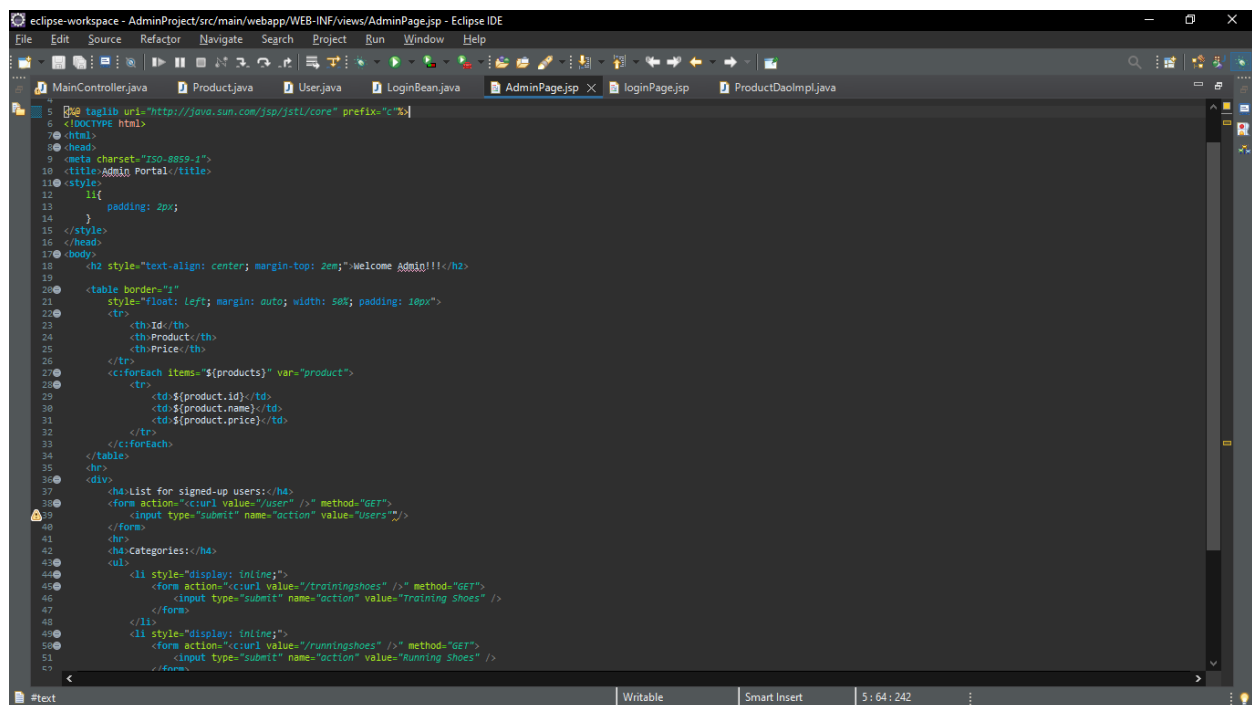
Login Page:



The screenshot shows the Eclipse IDE with the file `LoginBean.java` open. The code defines a `LoginBean` class with `name` and `password` attributes and their respective getters and setters.

```
1 package com.springapps.entity;
2
3 public class LoginBean {
4     private String name;
5     private String password;
6
7     public String getName() {
8         return name;
9     }
10
11    public void setName(String name) {
12        this.name = name;
13    }
14
15    public String getPassword() {
16        return password;
17    }
18
19    public void setPassword(String password) {
20        this.password = password;
21    }
22 }
23
24
```

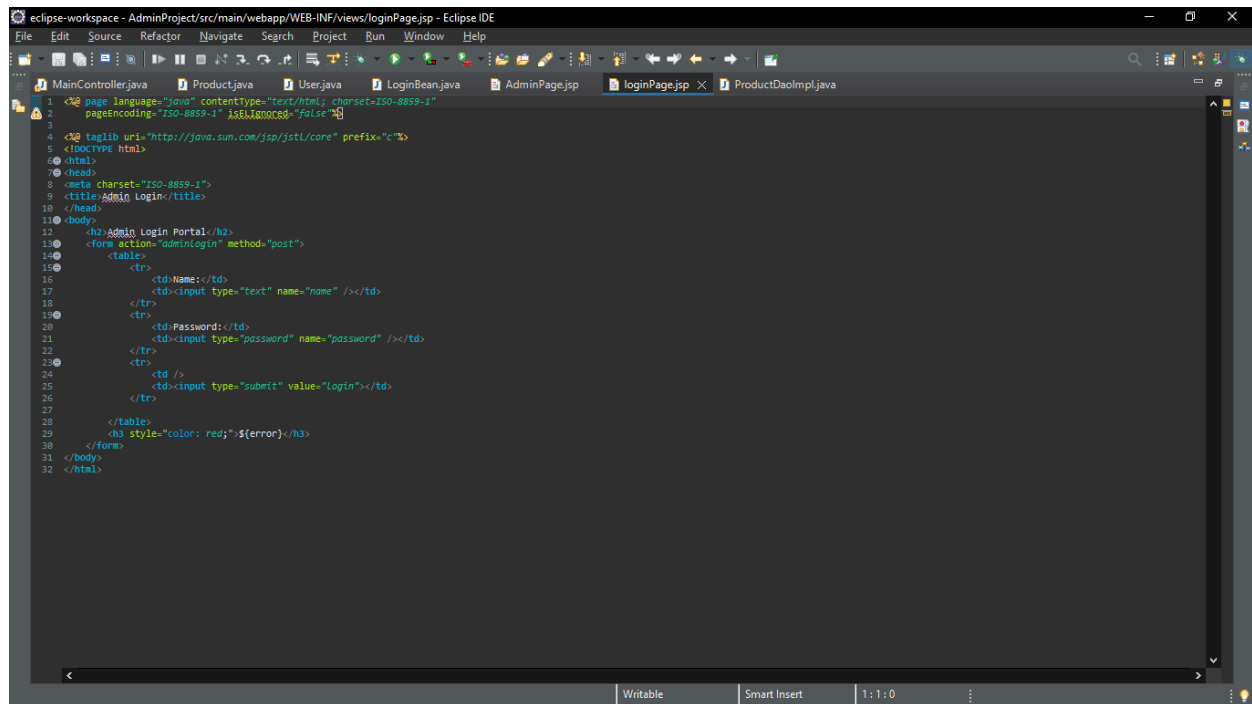
Admin Page:



The screenshot shows the Eclipse IDE with the file `AdminPage.jsp` open. The code is a JSP page that displays a list of products in a table and includes links for signed-up users to view training shoes and running shoes.

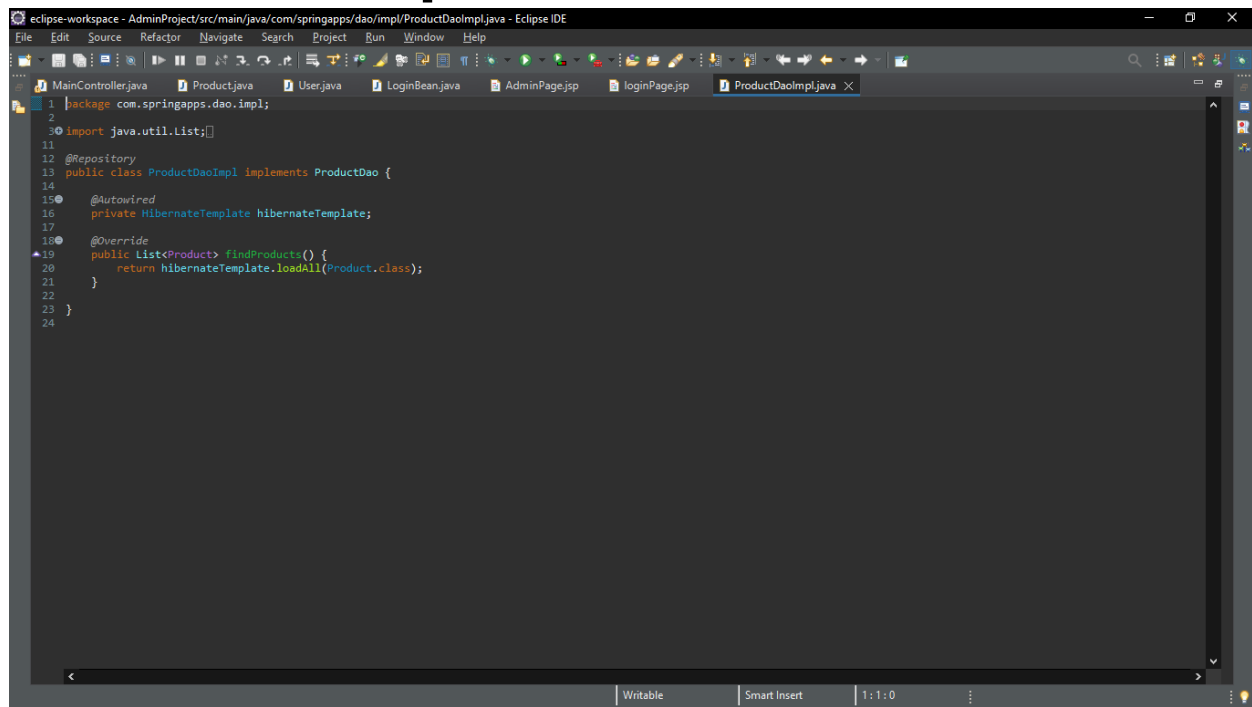
```
1 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
2 <doctype html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Admin Portal</title>
7 <style>
8 {
9     padding: 2px;
10 }
11 </style>
12 </head>
13 <body>
14 <h2 style="text-align: center; margin-top: 2em;">Welcome Admin!!!</h2>
15
16 <table border="1"
17     style="float: left; margin: auto; width: 80%; padding: 10px">
18     <tr>
19         <th>Id</th>
20         <th>Product</th>
21         <th>Price</th>
22     </tr>
23     <c:forEach items="${products}" var="product">
24         <tr>
25             <td>${product.id}</td>
26             <td>${product.name}</td>
27             <td>${product.price}</td>
28         </tr>
29     </c:forEach>
30 </table>
31 <hr>
32 <div>
33     <h4>List for signed-up users:</h4>
34     <form action="c:url value="/user" /> method="GET">
35         <input type="submit" name="action" value="Users"/>
36     </form>
37     <hr>
38     <h4>Categories:</h4>
39     <ul>
40         <li style="display: inline;">
41             <form action="c:url value="/trainingshoes" /> method="GET">
42                 <input type="submit" name="action" value="Training Shoes" />
43             </form>
44         </li>
45         <li style="display: inline;">
46             <form action="c:url value="/runningshoes" /> method="GET">
47                 <input type="submit" name="action" value="Running Shoes" />
48             </form>
49         </li>
50     </ul>
51 </div>
52
```

Login Page:



```
1 <% page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1" %>
3
4 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
5 <!DOCTYPE html>
6 <html>
7 <head>
8 <meta charset="ISO-8859-1">
9 <title>Admin Login</title>
10 </head>
11 <body>
12 <h2>Admin Login Portal</h2>
13 <form action="adminLogin" method="post">
14 <table>
15 <tr>
16 <td>Name:</td>
17 <td><input type="text" name="name" /></td>
18 </tr>
19 <tr>
20 <td>Password:</td>
21 <td><input type="password" name="password" /></td>
22 </tr>
23 <tr>
24 <td />
25 <td><input type="submit" value="Login"></td>
26 </tr>
27 </table>
28 <h3 style="color: red;">${error}</h3>
29 </form>
30 </body>
31 </html>
```

ProductDao Implementation:



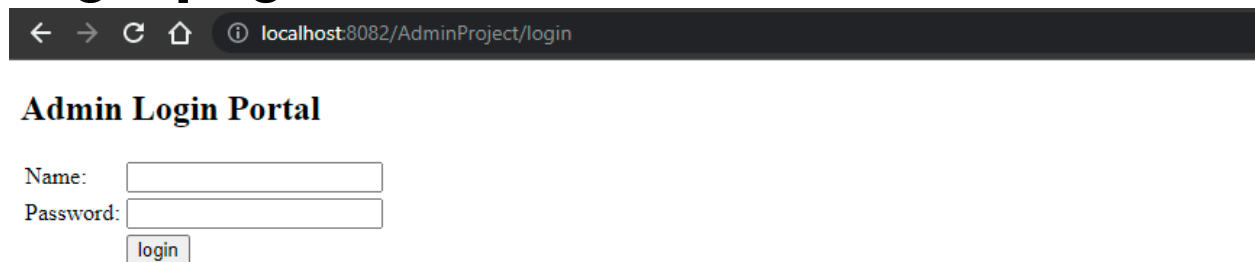
The screenshot shows the Eclipse IDE interface with the 'ProductDaoImpl.java' file open. The file is located at 'eclipse-workspace - AdminProject/src/main/java/com/springapps/dao/impl/ProductDaoImpl.java'. The code is as follows:

```
1 package com.springapps.dao.impl;
2
3 import java.util.List;
4
5
6
7
8
9
10
11 @Repository
12 public class ProductDaoImpl implements ProductDao {
13
14
15     @Autowired
16     private HibernateTemplate hibernateTemplate;
17
18     @Override
19     public List<Product> findProducts() {
20         return hibernateTemplate.loadAll(Product.class);
21     }
22
23 }
24
```

The IDE's status bar at the bottom shows 'Writable', 'Smart Insert', and '1:1:0'.

WEB Browser:

Login page:

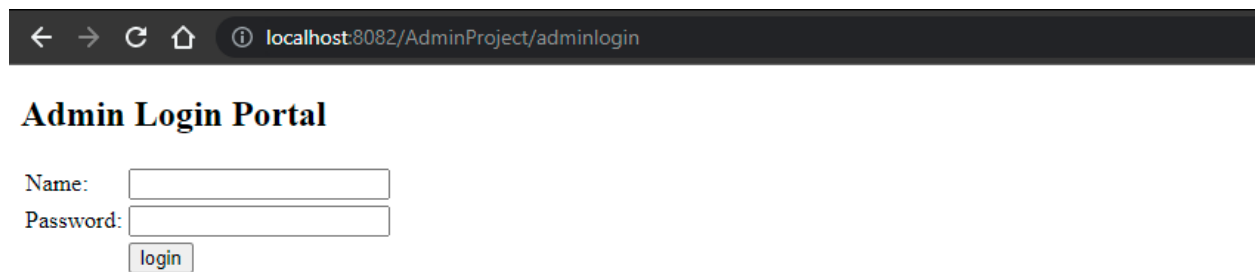


A screenshot of a web browser window. The address bar shows the URL `localhost:8082/AdminProject/login`. The page title is "Admin Login Portal". Below the title, there are two input fields: "Name:" and "Password:". Below the "Password:" field is a "login" button.

Admin Login Portal

Name:

Password:



A screenshot of a web browser window. The address bar shows the URL `localhost:8082/AdminProject/adminlogin`. The page title is "Admin Login Portal". Below the title, there are two input fields: "Name:" and "Password:". Below the "Password:" field is a "login" button. Below the "login" button, the text "invalid details" is displayed in red.

Admin Login Portal

Name:

Password:

invalid details

Admin Page:



Welcome Admin!!!

Id	Product	Price
1	Reebok RJ234366UUX	3299.0
2	Puma IA56XX21132	1599.0
3	Nike AirMax343	2099.0
4	Adidas A45000FG	2199.0
5	Fila 46YTX900	5900.0
6	Nike Revolution5G	6199.0
7	Puma Aero8XE	3200.0
8	Reebok VM Max	4800.0
9	Adidas LitePlus	2300.0
10	Sketchers	3400.0

List for signed-up users:

Users

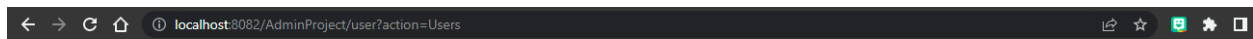
Categories:

Training Shoes

Running Shoes

Sneakers

Users



Users

ID	Name	Date of sign-up
1001	Peter	09/11/2021
1002	John	10/12/2021
1003	Annie	01/03/2021
1004	Govind	08/08/2020
1005	Aruna	13/11/2021
1006	Betty	22/04/2021
1007	James	11/09/2021

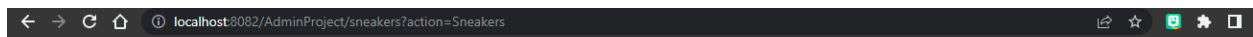
Training shoes category:



Training shoes

Id	Name	Units sold	Date of last purchase
1	Reebok RJ234366UUX	293	10/12/2021
3	Nike AirMax343	74	21/09/2021
9	Adidas LitePlus	51	02/05/2022

Sneakers category:



Sneakers

Id	Name	Units sold	Date of last purchase
2	Puma 1A56XX21132	313	1599.0
4	Adidas A45000FG	92	2199.0
7	Puma Aero\$XE	91	3200.0
10	Sketchers	10	3400.0

Running shoes category:



Running shoe

Id	Name	Units sold	Date of last purchase
5	Fila 46YTX900	103	08/10/2021
6	Nike Revolution5G	112	10/04/2021
8	Reebok VM Max	61	18/08/2021