```
1<?xml version="1.0" encoding="UTF-8"?>
2project 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>
 4
 5
      <parent>
          <groupId>org.springframework.boot</groupId>
 6
 7
          <artifactId>spring-boot-starter-parent</artifactId>
 8
          <version>2.7.1
 9
          <relativePath/> <!-- lookup parent from repository -->
10
      </parent>
      <groupId>com.sportyshoe
11
      <artifactId>sportyshoe</artifactId>
12
13
      <version>0.0.1-SNAPSHOT</version>
      <name>sportyShoe</name>
14
15
      <description>SimplieLearn project for Spring Boot</description>
16
      cproperties>
17
          <java.version>17</java.version>
18
      </properties>
19
      <dependencies>
20
          <dependency>
21
              <groupId>org.springframework.boot</groupId>
22
              <artifactId>spring-boot-starter-data-jpa</artifactId>
23
          </dependency>
24
          <dependency>
25
              <groupId>org.springframework.boot</groupId>
              <artifactId>spring-boot-starter-web</artifactId>
26
27
          </dependency>
          <dependency>
28
29
              <groupId>mysql</groupId>
30
              <artifactId>mysql-connector-java</artifactId>
31
              <scope>runtime</scope>
32
          </dependency>
33
          <!-- https://mvnrepository.com/artifact/com.h2database/h2 --
  >
         <dependency>
34
             <groupId>com.h2database
35
             <artifactId>h2</artifactId>
36
```

```
pom.xml
                                     Wednesday, 20 July, 2022, 7:48 pm
          </dependency>
37
38
39
          <dependency>
              <groupId>javax.servlet
40
              <artifactId>jstl</artifactId>
41
42
          </dependency>
          <!-- Tomcat for JSP rendering -->
43
44
          <dependency>
45
              <groupId>org.apache.tomcat.embed
              <artifactId>tomcat-embed-jasper</artifactId>
46
47
              <scope>provided</scope>
48
          </dependency>
49
50
          <dependency>
              <groupId>org.springframework.boot
51
52
              <artifactId>spring-boot-starter-test</artifactId>
53
              <scope>test</scope>
          </dependency>
54
      </dependencies>
55
56
57
      <build>
58
          <plugins>
59
              <plugin>
60
                  <groupId>org.springframework.boot</groupId>
61
                  <artifactId>spring-boot-maven-plugin</artifactId>
62
              </plugin>
          </plugins>
63
      </build>
64
65
66</project>
67
```

```
1server.port=8080
2spring.datasource.username=root
3spring.datasource.password=root123456
4spring.datasource.url=jdbc:mysql://localhost:3306/sportyshoe
5spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
6
7spring.jpa.hibernate.ddl-auto=update
8spring.jpa.show-sql=true
9
10spring.mvc.view.prefix=/WEB-INF/jsp/
11spring.mvc.view.suffix=.jsp
12
13spring.servlet.multipart.max-file-size=5MB
14spring.servlet.multipart.max-request-size=5MB
```

```
SportyShoeApplication.java
                                      Wednesday, 20 July, 2022, 7:39 pm
 1package com.spring.demo;
 3 import org.springframework.boot.SpringApplication;
 9@SpringBootApplication
10
11 public class SportyShoeApplication {
12
      public static void main(String[] args) {
13
          System.out.println("starting application");
14
          SpringApplication.run(SportyShoeApplication.class, args);
15
16
17
      }
18
19
20}
21
```

```
login.jsp
                                Wednesday, 20 July, 2022, 7:32 pm
1<%@page isELIgnored="false" %>
2<%@ taglib prefix="form"</pre>
  uri="http://www.springframework.org/tags/form"%>
 3<!DOCTYPE html>
4<html lang="en">
 5 < head >
6 <title>login page</title>
7</head>
8 < body>
9
10
11<h2 align="center">Admin Login Here </h2><br>
12 < h2 align="center" style="color:red;">${invalide}</h2>
13
14 < form action="/submitlogin" method="get">
     15
16
         17
            <br>UserName
            <br> <input type="text" name="userName" required</pre>
18
  />
19
         >
20
21
            <br>Password
            <br> <input type="password" name="password" required
22
  />
23
         24
         25
            <br> <input type="submit" value="Submit" />
26
            <br> <input type="reset" value="Reset" />
27
28
         29
30
     31 </form>
32
33
34
35
36 </body>
```

login.jsp

Wednesday, 20 July, 2022, 7:32 pm

37</html>

```
welcome.jsp
                                 Wednesday, 20 July, 2022, 7:34 pm
 1<%@page isELIgnored="false" %>
2<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
 3<!DOCTYPE html>
4<html lang="en">
 5 < head >
6 <title>welcome page</title>
 7</head>
8 < body>
   <h1> <center>Welcome to sporty shoe Admin</center> </h1><bre>
     <h2 >change Password </h2>
     <h2 style="color:red;">${message}</h2>
11
12 < form action="changePassword" method="get">
     13
14
         >
15
             <br>password
             <br> <input type="text" name="password" required</pre>
16
  />
17
         18
         <br>confirm Password
19
              <br> <input type="text" name="Cpassword" required</pre>
20
  />
21
         22
         23
               <br> <input type="submit" value="Submit" />
               <br> <input type="reset" value="Reset" />
24
25
         26
27 </form>
28
29 <br>
30
31<form action="product" method="get">
32
         <br> <input type="submit" value="manage products"</pre>
33
  />
34
35
         36 </form>
```

```
Wednesday, 20 July, 2022, 7:34 pm
welcome.jsp
37
38 <form action="user" method="get">
39
          <br> <input type="submit" value="user details"</pre>
40
  />
41
42
         43
44
45 </body>
46</html>
```

```
Wednesday, 20 July, 2022, 7:34 pm
product.jsp
 1<%@page isELIgnored="false" %>
 2<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
 3<!DOCTYPE html>
 4<html lang="en">
 5 <head>
 6 <title>product page</title>
 7</head>
 8 <body>
 9
10
    <h1 style="color:blue;"> <center>Manage Products</center> </h1>
11
      <a href="listOfProducts"><h2 style="color:blue;">1.view
12
  products</h2></a>
13 
14
      >
         List of Products
15
16
      17
      ID  
18
         Name  
19
         category  
20
         price  
21
22
      23
24
      <c:forEach items="${products}" var="product">
25
         26
            <c:out value="${product.getPid()}" />
27
            <c:out value="${product.getName()}" />
28
            <c:out value="${product.getCategory()}"/>
29
            <c:out value="${product.getPrice()}" />
30
            <a href="listOfProducts">update</a>
31
         32
      </c:forEach>
33
34
35
36
37 <br>
38
```

```
product.jsp
                            Wednesday, 20 July, 2022, 7:34 pm
76
77 <br>
78
79 < h2 style="color:blue;" > 4.Update Product </h2>
80 <h3> Enter the product Id to change its details </h3>
81<form action="updateProduct" method="get">
     82
83
        >
84
            <br>product Id
            85
86
        87
        <br>product name
88
            <br> <input type="text" name="Name" required
89
  />
90
        91
        <br>product category
92
             <br> <input type="text" name="category" required
93
  />
94
        95
        <br>product price
96
             <br> <input type="text" name="price" required
97
  />
98
        99
        <br> <input type="submit" value="Update" />
100
             <br> <input type="reset" value="Reset" />
101
102
        103
104 </form>
105
106 </body>
107 </html>
```

```
1<%@page isELIgnored="false" %>
2<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
 3<!DOCTYPE html>
4<html lang="en">
5 <head>
6 <title>welcome page</title>
7</head>
8 < body >
9<h1 style="color:blue;"> <center>Manage users</center> </h1>
10 < br>>
11 <a href="getAllusers"><h2
  style="color:blue;">1.Getallusers</h2></a>
12 
13
     >
        List of users
14
15
     16
17
        ID  
        Name  
18
19
        timestamp  
20
21
     22
     <c:forEach items="${users}" var="user">
23
24
        >
25
            <c:out value="${user.getuId()}" />
26
            <c:out value="${user.getUserName()}" />
27
            <c:out value="${user.getTimestamp()}"/>
28
29
        </c:forEach>
30
31
32
33 <br>
34
35 < form action="searchUser" method="get">
       <h2 style="color:blue;">2.Search user</h2>
36
37
    38
        UserName
```

```
user.jsp
                           Wednesday, 20 July, 2022, 8:50 pm
        <input type="text" name="userName" required />
39
     40
41
42
     <input type="submit" value="search" />
43
44
     45
46
      <br>
47 </form>
48
49
    50
     users found
51
     52
53
     54
        ID  
55
        Name  
        timestamp  
56
     57
58
        <c:forEach items="${user}" var="user">
59
60
        61
           <c:out value="${user.getuId()}" />
62
           <c:out value="${user.getUserName()}" />
63
           <c:out value="${user.getTimestamp()}"/>
64
65
        </c:forEach>
66
67
68
69
70
    <br>
71
72 <a href="purchase"><h2
  style="color:blue;">3.GetPurchaseReport</h2></a>
73 
74
     >
        purchaseReport
75
76
```

```
Wednesday, 20 July, 2022, 8:50 pm
user.jsp
        <c:forEach items="${timelist}" var="time">
116
117
        <option>
            <c:out value="${time}"/>
118
119
        </option>
        </c:forEach>
120
121
122</select>
123
      <br> &nbsp; &nbsp;<input type="submit" value="Search" />
124
125 </form>
126
127
128 
129
     >
         Purchases found 
130
131
      132
         133
         productName  
134
         category  
135
         price  
136
         timestamp  
137
138
      139
140
      <c:forEach items="${purchase}" var="purchase">
141
         >
142
            <c:out value="${purchase.getUserName() }" />
143
            <c:out value="${purchase.getName()}" />
144
            <c:out value="${purchase.getCategory()}"/>
145
            <c:out value="${purchase.getPrice()}" />
146
            <c:out value="${purchase.getTimestamp()}" />
147
         148
      </c:forEach>
149
150
151
152 <br>
153 <br>
154
```

user.jsp

Wednesday, 20 July, 2022, 8:50 pm

155

156

157</body>

158 </html>

```
1package com.spring.demo.model;
 2
 3import javax.persistence.Entity;
 9@Entity
10@Table(name="Admin")
11 public class adminLogin {
12
      @Id
      @GeneratedValue(strategy = GenerationType.AUTO)
13
      private long Aid;
14
      private String userName;
15
16
      private String password;
17
18
19
20
      public long getAid() {
21
          return Aid;
22
      public void setAid(long aid) {
23
24
          Aid = aid;
25
26
      public String getUserName() {
27
          return userName;
28
29
      public void setUserName(String userName) {
30
          this.userName = userName;
31
32
      public String getPassword() {
33
          return password;
34
      public void setPassword(String password) {
35
          this.password = password;
36
37
      }
38
39
      @Override
      public String toString() {
40
          return "adminLogin [Aid=" + Aid + ", userName=" + userName +
41
     password=" + password + "]";
42
      }
```

43

44

45 }

public Date getTimestamp() {

```
user.java
                                      Wednesday, 20 July, 2022, 7:41 pm
50
          return timestamp;
51
      public void setTimestamp(Date timestamp) {
52
53
54
          this.timestamp = timestamp;
55
      }
56
      @Override
      public String toString() {
57
          return "user [uId=" + uId + ", userName=" + userName + ",
58
  timestamp=" + timestamp + ", product=" + product
                  + "]";
59
      }
60
61
62
63
64
65
66 }
67
```

41

42 43

44

return price;

public void setPrice(long price) {

this.price = price;

```
product.java
                                     Wednesday, 20 July, 2022, 7:41 pm
45
      }
      @Override
46
      public String toString() {
47
          return "product [Pid=" + Pid + ", Name=" + Name + ",
48
  category=" + category + ", price=" + price + "]";
49
50
51
52
53}
54
```

```
purchase.java
                                      Wednesday, 20 July, 2022, 7:41 pm
      public void setName(String name) {
39
40
          Name = name;
41
      public String getCategory() {
42
          return category;
43
44
      public void setCategory(String category) {
45
          this.category = category;
46
47
48
      public long getPrice() {
49
          return price;
50
      public void setPrice(long price) {
51
52
          this.price = price;
53
      }
54
55
      @Override
      public String toString() {
56
          return "purchase [userName=" + userName + ", Name=" + Name +
57
     category=" + category + ", price=" + price
                  + ", timestamp=" + timestamp + "]";
58
59
      }
60
61
62}
63
```

```
1package com.spring.demo.controller;
 2
 3 import java.util.List;
16
17@Controller
18 public class adminController {
19
      @Autowired
      private adminService service;
20
21
      @Autowired
22
      private userService uservice;
23
24
25
      @RequestMapping("/login")
26
27
      public String login(Model model)
28
      {
29
          System.out.println("login page");
30
31
          return "login";
32
      }
33
34
      @RequestMapping("/submitlogin")
      public String submitlogin(@ModelAttribute adminLogin admin,
35
  Model model)
      {
36
          boolean b=service.validateAdmin(admin);
37
38
          if(b) {
39
               return "welcome";
40
          }else {
               model.addAttribute("invalide", "invalide credentials
41
  please try again");
               return "login";
42
43
          }
44
      }
45
      @RequestMapping("/changePassword")
46
      public String changePassword(@RequestParam("password") String
47
  p1,@RequestParam("Cpassword") String p2, Model model)
      {
48
```

```
adminController.java
                                       Wednesday, 20 July, 2022, 7:42 pm
          boolean b=false;
49
          if(p1.equals(p2)) {
50
                b=service.updatePassword(p1);
51
52
                if(b) {
                       model.addAttribute("message","password updated
53
  successfully..!!");
                       return "welcome";
54
55
                   }
                   else {
56
                        model.addAttribute("message","updation
57
  failed");
58
                   return "welcome";
59
               }
60
61
          else
                model.addAttribute("message", "check the password
62
  entered...");
          return "welcome";
63
64
               }
65
      }
66
67
```

```
userController.java
                                      Wednesday, 20 July, 2022, 8:44 pm
62
           return "user";
63
      }
64
65
      @RequestMapping("/searchPurchase")
66
      public String searchPurchase(@RequestParam("category") String
67
  cat,@RequestParam("timestamp") String time, Model model)
68
69
          Timestamp timestamp = null;
           timestamp=timestamp.valueOf(time);
70
          System.out.println("+++++date"+timestamp);
71
72
           List<purchase> purchase=uservice.searchpurchase
  (cat,timestamp);
           model.addAttribute("purchase", purchase);
73
          return "user";
74
75
76
      }
77
78
79
      @RequestMapping("/user")
      public String user(Model model) {
80
          List<String> catlist = uservice.listcat();
81
           model.addAttribute("catlist", catlist);
82
           System.out.println(catlist);
83
           ArrayList<Date> timelist=uservice.listtime();
84
           model.addAttribute("timelist", timelist);
85
           System.out.println(timelist);
86
           return "user";
87
88
      }
89
90
91
92}
93
```

```
productController.java
                                      Wednesday, 20 July, 2022, 7:42 pm
 1package com.spring.demo.controller;
 2
 3
 4
 5 import java.util.List;
19
20
21@Controller
22 public class productController {
23
24
      @Autowired
25
      private productService pservice;
26
      @RequestMapping("/listOfProducts")
27
      public String getallproducts(Model model) {
28
           Listcproduct> products=pservice.getAllproducts();
29
           model.addAttribute("products", products);
30
           return "product";
31
32
      }
33
      @RequestMapping("/addProduct")
34
      public void addProduct(@ModelAttribute product product, Model
35
  model,HttpSession session)
36
      {
37
          session.setAttribute("product", product);
          pservice.addproduct(product);
38
39
      }
40
41
42
      @RequestMapping("/deleteProduct")
              String deleteProduct(@RequestParam("Id") long id, Model
43
      public
  model) {
          pservice.deleteProduct(id);
44
45
46
           return "product";
47
      }
48
      @RequestMapping("/updateProduct")
49
      public String updateProduct(@ModelAttribute("product") product
50
```

```
productController.java
                                      Wednesday, 20 July, 2022, 7:42 pm
  pro,@RequestParam("Id") long id, Model model) {
51
          pservice.updateProduct(pro,id);
52
           return "product";
53
54
      }
55
      @RequestMapping("/product")
56
      public String Product() {
57
58
59
           return "product";
60
      }
61
62
63
64 }
65
```

```
1package com.spring.demo.service;
 2
 3 import java.util.ArrayList;
16@Service
17 public class userService {
18
      @Autowired
19
      private userRepository userRepo;
20
21
22
      public void insertUser(user u) {
23
24
          userRepo.save(u);
25
      }
26
27
      public List<user> getallusers() {
          List<user> users=userRepo.findAll();
28
29
          System.out.println(users);
30
         return users;
      }
31
32
33
      public ArrayList<user> searchUser(String uN) {
          ArrayList<user> u=userRepo.findByName(uN);
34
35
          System.out.println(u);
36
          return u;
37
38
      }
39
40
      public List<purchase> purchase() {
41
42
          List<purchase> purchases=userRepo.purchase();
43
          for(purchase p:purchases) {
               System.out.println(p);
44
45
          }
46
47
          return purchases;
48
      }
49
      public List<String> listcat() {
50
51
```

```
Wednesday, 20 July, 2022, 7:45 pm
userService.java
52
          List<purchase> cats=userRepo.getCategories();
          ArrayList<String> catlist= new ArrayList<>();
53
          for(purchase c:cats) {
54
55
               String cat=c.getCategory();
               System.out.println(cat);
56
               catlist.add(cat);
57
58
59
          return catlist;
60
      }
61
62
      public ArrayList<Date> listtime() {
63
          List<purchase> times=userRepo.getTimestamps();
          ArrayList<Date> timelist= new ArrayList<>();
64
          for(purchase t:times) {
65
               Date time=t.getTimestamp();
66
               System.out.println(time);
67
68
               timelist.add(time);
69
70
          return timelist;
      }
71
72
73
      public List<purchase> searchpurchase(String cat, Date date) {
74
75
          List<purchase> purchase=userRepo.searchPurchase(cat,date);
          for(purchase p:purchase) {
76
               System.out.println(p);
77
78
          }
79
80
          return purchase;
81
          }
82
83
84
85
86
87
      }
88
89
90
```

userService.java

Wednesday, 20 July, 2022, 7:45 pm

```
adminRepository.java Wednesday, 20 July, 2022, 7:45 pm

1 package com.spring.demo.repository;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
7
8@Repository
9 public interface adminRepository extends JpaRepository<adminLogin, Long> {
10
11 }
12
```

public List<com.spring.demo.model.purchase> purchase();

31

32 } 33

```
productRepository.java Wednesday, 20 July, 2022, 7:46 pm

1 package com.spring.demo.repository;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
10
11
12 @Repository
13 public interface productRepository extends JpaRepositoryproduct,
    Long> {
14
15
16 }
17
```