2.Registration

Register.jsp

```jsp
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@ page import="java.util.List" %>
<%@ page import="java.util.ArrayList" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<html>
<head>
    <title>User Registration</title>
</head>
<body bgcolor='pink'>
<h2>Register</h2>
<form action="register.jsp" method="post">
    Username: <input type="text" name="username" required/><br/><br/>
    Email: <input type="email" name="email" required/><br/><br/>
    Password: <input type="password" name="password" required/><br/><br/>
    Confirm Password: <input type="password" name="confirmPassword" required/><br/><br/>
    <input type="submit" value="Register"/>
</form>


<c:if test="${not empty param.error}">
    <p style="color:red;">${param.error}</p>
</c:if>


<%

    List<String> users = (List<String>) application.getAttribute("users");
    if (users == null) {
        users = new ArrayList<>();
        application.setAttribute("users", users);
    }
```

```jsp
    String username = request.getParameter("username");

    String email = request.getParameter("email");

    String password = request.getParameter("password");

    String confirmPassword = request.getParameter("confirmPassword");


    if (username != null && email != null && password != null && confirmPassword != null) {

      if (users.contains(username)) {

        response.sendRedirect("register.jsp?error=Username already exists!");

      } else if (!password.equals(confirmPassword)) {

        response.sendRedirect("register.jsp?error=Passwords do not match!");

      } else {

        users.add(username);

        application.setAttribute("users", users);

        response.sendRedirect("login.jsp");

      }

    }

%>

</body>

</html>
```

2.login.jsp

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

<%@ page import="java.util.List" %>

<%@ page import="java.util.ArrayList" %>

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

<html>

<head>

  <title>User Login</title>

</head>

<body bgcolor='pink'>

<h2>Login</h2>
```

```jsp
<form action="login.jsp" method="post">
   Username: <input type="text" name="username" required/><br/><br/>
   Password: <input type="password" name="password" required/><br/><br/>
   <input type="submit" value="Login"/>
</form>

<c:if test="${not empty param.error}">
   <p style="color:red;">${param.error}</p>
</c:if>

<%

   List<String> users = (List<String>) application.getAttribute("users");
   if (users == null) {
      users = new ArrayList<>();

      users.add("testUser");
      users.add("admin");
      application.setAttribute("users", users);
   }

   String username = request.getParameter("username");
   String password = request.getParameter("password");

   if (username != null && password != null) {

      if (!users.contains(username)) {
         response.sendRedirect("login.jsp?error=Username does not exist!");
      } else {

         session.setAttribute("username", username);
```

```
            response.sendRedirect("welcome.jsp");

        }

    }

%>

</body>

</html>
```

3.logout.jsp

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

<%

    session.invalidate();

    response.sendRedirect("login.jsp");

%>
```

4.signup.jsp

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Signup Page</title>


  </head>

  <body>

    <div class="container">

      <div class="left-section">

        <button class="sign-in-btn" onclick="location.href='/login.html'">

          Sign In

        </button>

      </div>

      <div class="right-section">
```

```html
    <h2>Sign Up</h2>
    <form action="validation.jsp" method="post">
     <div class="form-group">
       <label for="username">Username</label>
       <input type="text" id="username" name="username" required />
     </div>
     <div class="form-group">
       <label for="email">Email</label>
       <input type="email" id="email" name="email" required />
     </div>
     <div class="form-group">
       <label for="password">Password</label>
       <input type="password" id="password" name="password" required />
     </div>
     <button type="submit" class="signup-btn">Sign Up</button>
    </form>
   </div>
  </div>
 </body>
</html>


5.welcom.jsp
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<head>
   <title>Welcome</title>
</head>
<body bgcolor='pink'>
<%
   String username = (String) session.getAttribute("username");
   if (username == null) {
```

```jsp
            response.sendRedirect("login.jsp");

        } else {

        <h2>Welcome, <%= username %> :)</h2>

        <a href="logout.jsp">Logout</a>


        }

%>

</body>

</html>
```

****BOOKS****

1.admin.jsp

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

<html>

<head>

    <title>Admin Panel</title>

</head>

<body>

    <h1>Admin Panel</h1>

    <form action="addBookSuccess.jsp" method="post">

        <label for="title">Title:</label>

        <input type="text" name="title" id="title" required>


        <label for="author">Author:</label>

        <input type="text" name="author" id="author" required>


        <label for="genre">Genre:</label>

        <input type="text" name="genre" id="genre" required>


        <label for="price">Price:</label>

        <input type="number" step="0.01" name="price" id="price" required>
```

```html
    <label for="inStock">In Stock:</label>

    <input type="checkbox" name="inStock" id="inStock">


    <button type="submit">Add Book</button>
  </form>
  <a href="index.jsp">Go to User Page</a>
</body>
</html>
```

2.addBookSucess

```jsp
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<head>
  <!-- Ensure proper linking of the CSS file -->


  <title>Book Added</title>


</head>
<body>
<%


  String title = request.getParameter("title");
  String author = request.getParameter("author");
  String genre = request.getParameter("genre");
  double price = Double.parseDouble(request.getParameter("price"));
  boolean inStock = request.getParameter("inStock") != null;


%>
  <h1>Book Added Successfully!</h1>
  <table class="book-details">
```

```
      <tr>
        <th>Title</th>
        <td><%= title %></td>
      </tr>
      <tr>
        <th>Author</th>
        <td><%= author %></td>
      </tr>
      <tr>
        <th>Genre</th>
        <td><%= genre %></td>
      </tr>
      <tr>
        <th>Price</th>
        <td>$<%= String.format("%.2f", price) %></td>
      </tr>
      <tr>
        <th>Availability</th>
        <td><%= inStock ? "In Stock" : "Out of Stock" %></td>
      </tr>
    </table>
    <a href="admin.jsp">Back to Admin Panel</a>
</body>
</html>
```

3.booklist.jsp

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@ page import="java.util.*" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<html>
<head>
    <title>Book List</title>
```

```jsp
</head>
<body>
    <h1>Available Books</h1>
    <%

        List<Map<String, Object>> books = new ArrayList<>();
        Map<String, Object> book1 = new HashMap<>();
        book1.put("title", "Book A");
        book1.put("author", "Author 1");
        book1.put("genre", "Fiction");
        book1.put("price", 10.99);
        book1.put("inStock", true);
        books.add(book1);

        Map<String, Object> book2 = new HashMap<>();
        book2.put("title", "Book B");
        book2.put("author", "Author 2");
        book2.put("genre", "Non-Fiction");
        book2.put("price", 12.99);
        book2.put("inStock", true);
        books.add(book2);

        Map<String, Object> book3 = new HashMap<>();
        book3.put("title", "Book C");
        book3.put("author", "Author 3");
        book3.put("genre", "Science");
        book3.put("price", 15.99);
        book3.put("inStock", false);
        books.add(book3);

        Map<String, Object> book4 = new HashMap<>();
```

```java
        book4.put("title", "Book D");

        book4.put("author", "Author 4");

        book4.put("genre", "Fiction");

        book4.put("price", 8.99);

        book4.put("inStock", true);

        books.add(book4);



        String[] genres = request.getParameterValues("genre");

        if (genres != null) {

            List<String> genreList = Arrays.asList(genres);

            for (Iterator<Map<String, Object>> iterator = books.iterator(); iterator.hasNext(); ) {

                Map<String, Object> book = iterator.next();

                if (!genreList.contains(book.get("genre"))) {

                    iterator.remove();

                }

            }

        }



        int currentPage = request.getParameter("page") != null ?
Integer.parseInt(request.getParameter("page")) : 1;

        int pageSize = 10;

        int totalBooks = books.size();

        int totalPages = (int) Math.ceil(totalBooks / (double) pageSize);



        int start = (currentPage - 1) * pageSize;

        int end = Math.min(start + pageSize, totalBooks);



        List<Map<String, Object>> paginatedBooks = books.subList(start, end);

        request.setAttribute("paginatedBooks", paginatedBooks);

        request.setAttribute("totalPages", totalPages);
```

```
    %>
    <c:forEach var="book" items="${paginatedBooks}">
      <div class="book">
        <p>Title: <strong>${book.title}</strong></p>
        <p>Author: ${book.author}</p>
        <p>Genre: ${book.genre}</p>
        <p>Price: $${book.price}</p>
        <p>Availability: <c:choose>
          <c:when test="${book.inStock}">In Stock</c:when>
          <c:otherwise>Out of Stock</c:otherwise>
        </c:choose></p>
      </div>
    </c:forEach>

    <div class="pagination">
      <c:forEach begin="1" end="${totalPages}" var="i">
        <a href="?page=${i}&genre=${param.genre}">${i}</a>
      </c:forEach>
    </div>
</body>
</html>


4.index.jsp
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<html>
<head>

  <title>Online Bookstore</title>

</head>
```

```html
<body>
    <h1>Welcome to the Online Bookstore</h1>
    <form method="get" action="booklist.jsp">
        <label>Filter by Genre:</label><br>
        <input type="checkbox" name="genre" value="Fiction"> Fiction<br>
        <input type="checkbox" name="genre" value="Non-Fiction"> Non-Fiction<br>
        <input type="checkbox" name="genre" value="Science"> Science<br>
        <button type="submit">Filter</button>
    </form>
    <a href="admin.jsp">Admin Panel</a>
</body>
</html>
```