

Experiment-3.3

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Subject Name: Project Based learning with Java Subject Code: 21CSH-319

• **Aim:** Create an application for online auction using Servlet and JSP.

• **Objective:** The objective of this experiment is to Create an application for online auction using Servlet and JSP.

• Input/Apparatus Used:

Hardware - Laptop Software - VS Code, Java JDK

• Procedure/Algorithm/Pseudocode:

- o Algorithm for index.jsp:
 - 1. Output welcome message.
 - 2. Display available items as links to their respective item pages.
- o Algorithm for item.jsp:
 - 1. Parse item ID from request.
 - 2. Initialize current bid variable.
 - 3. If bid is submitted, update current bid.
 - 4. Display item details including name and current bid.
 - 5. Display bidding form with input field for bid amount.

• Code:

o Algorithm for index.jsp:

```
font-family: Arial, sans-serif;
         margin: 0;
padding: 0;
         background-color: #f2f2f2;
       .container {
max-width: 800px;
margin: 50px auto;
padding: 20px;
background-color: #fff;
border-radius: 5px;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
                h1,
h2,
          h3 {
color: #333;
      }
ul {
         list-style-type: none;
padding: 0;
li {
         margin-bottom: 10px;
a {
         text-decoration: none;
         color: #007bff;
       a:hover {
         text-decoration: underline;
    </style>
  </head>
  <body>
    <div class="container">
       <h1>Welcome to Online Auction System</h1>
       <h2>Available Items</h2>
       <u1>
         <a href="item.jsp?id=1">Item 1</a>
         <a href="item.jsp?id=2">Item 2</a>
                                                               <!-- Add more items as
needed -->
```

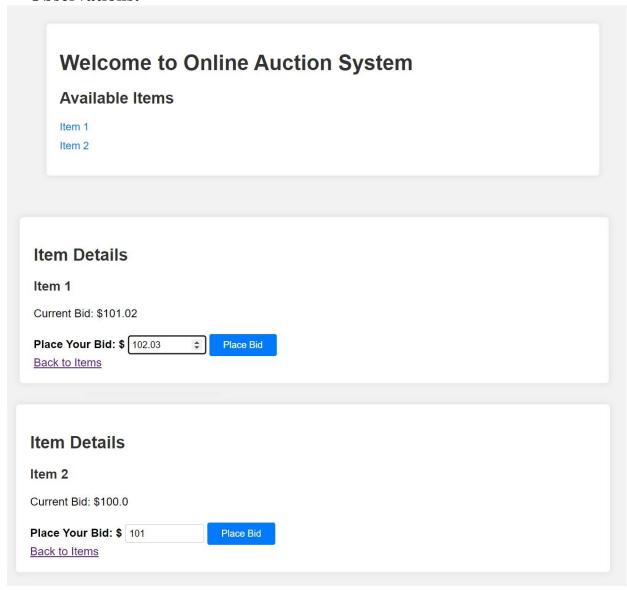
border-radius: 3px;

```
</div>
</body>
</html>
```

```
o Algorithm for item.jsp:
          page language="java"
<%(a)
                                       contentType="text/html;
                                                                    charset=UTF-8"
   pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
  <title>Item Details</title>
  <style>
body {
      font-family: Arial, sans-serif;
margin: 0;
                padding: 0;
      background-color: #f2f2f2;
    .container {
                       max-
width: 800px;
                    margin:
50px auto;
                 padding:
             background-
20px;
                 border-
color: #fff;
radius: 5px;
       box-shadow: 0\ 0\ 10px\ rgba(0, 0, 0, 0.1);
           h2, h3
        color:
#333;
    p {
      margin: 10px 0;
form {
      margin-top: 20px;
label {
      font-weight: bold;
    input[type="number"] {
width: 100px;
padding: 5px;
                    border:
1px solid #ccc;
```

```
input[type="submit"] {
      padding: 8px 20px;
background-color: #007bff;
       color: #fff:
border: none;
border-radius: 3px;
cursor: pointer;
    input[type="submit"]:hover {
       background-color: #0056b3;
  </style>
</head>
<body>
  <div class="container">
    <h2>Item Details</h2>
    < \%_0
       int itemId = Integer.parseInt(request.getParameter("id"));
       String itemName = "Item " + itemId;
       // Retrieve the current bid from request attribute or initialize it
double currentBid = (request.getAttribute("currentBid") != null) ?
(double) request.getAttribute("currentBid"): 100.0;
       // Handle bid submission
      if(request.getParameter("bid") != null) {
         String bidAmountStr = request.getParameter("bidAmount");
if(bidAmountStr != null && !bidAmountStr.isEmpty()) {
double bidAmount = Double.parseDouble(bidAmountStr);
if(bidAmount > currentBid) {
              currentBid = bidAmount;
    %>
    <h3><%= itemName %></h3>
    Current Bid: $<%= currentBid %>
    <form action="item.jsp?id=<%= itemId %>&bid=true" method="post">
       <label for="bidAmount">Place Your Bid: $</label>
       <input type="number" id="bidAmount" name="bidAmount" step="0.01" min="<%=</pre>
   currentBid + 1 %>">
       <input type="submit" value="Place Bid">
    </form>
    <a href="index.jsp">Back to Items</a>
```

Observations:



• Learning Outcomes:

- Understanding of web development fundamentals
- Proficiency in Servlets and JSP.
- User authentication and session management.
- Scalability and performance considerations.