Experiment 3.3

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Subject Name: Java Subject Code: 21CSH-319

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

Objective: To learn about concept of Servlets in java and Apache Server.

Steps:

Below is a simplified version of an online auction application:

• User authentication: Users can register, login, and logout.

• Item listing: Registered users can list items for auction.

• Bidding functionality: Registered users can place bids on listed items.

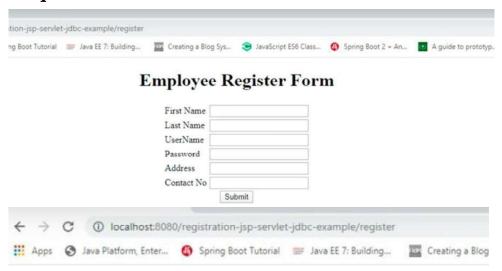
Code:

```
User.java (POJO representing a user):
public class User {
  private String username;
  private String password;
  // Constructor, getters, and setters
}
Item.java (POJO representing an auction item):
public class Item {
  private int id;
  private String name;
  private String description;
  private double currentBid;
  private String seller;
  // Constructor, getters, and setters }
UserDAO.java (Data Access Object for managing user-related operations):
import java.util.List;
public interface UserDAO {
```

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.IOException;
import java.util.List;
public class ListItemsServlet extends HttpServlet {
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // Fetch all items using ItemDAO
   // Forward to JSP to display items
 }
}
BidServlet.java (Servlet for placing bids):
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.IOException;
public class BidServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    int itemId = Integer.parseInt(request.getParameter("itemId"));
    double amount = Double.parseDouble(request.getParameter("amount"));
    String bidder = request.getParameter("bidder");
    // Place bid using ItemDAO
    // Redirect to appropriate page
  }
login.jsp, list_items.jsp, bid.jsp (JSP files for user interface).
```



Output:



Employee successfully registered!

Learning Outcome:

To solve using methods,to create a seperate method for all input data.

To take input by user in run time and solve the problem.

Learn about get and post requests.