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Web Technology Practical 10

Title: Design and implement a business interface with necessary business logic for any web application using EJB. e.g., Design and implement the web application logic for deposit and withdraw amount transactions using EJB

The code is as follows:

```
<% @ page import="javax.naming.*, com.ejb.TransactionBeanRemote" %>
<% @ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
  <title>Bank Transaction</title>
  <style>
    body {
      background: linear-gradient(to right, #83a4d4, #b6fbff);
      font-family: Arial, sans-serif;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }
    .container {
      background: #fff;
      padding: 40px;
      border-radius: 10px;
      box-shadow: 0 5px 15px rgba(0,0,0,0.2);
      width: 350px;
      text-align: center;
    }
    h2 {
      margin-bottom: 20px;
      color: #333;
    }
```

```
}  
input {  
    width: 90%;  
    padding: 12px;  
    margin: 10px 0;  
    font-size: 16px;  
    border: 1px solid #ccc;  
    border-radius: 6px;  
}  
button {  
    width: 45%;  
    padding: 10px;  
    margin: 10px 5px;  
    font-size: 16px;  
    color: white;  
    background: #007bff;  
    border: none;  
    border-radius: 6px;  
    cursor: pointer;  
}  
button:hover {  
    background: #0056b3;  
}  
.result {  
    margin-top: 20px;  
    font-weight: bold;  
    color: #222;  
}  
</style>  
</head>  
<body>  
    <div class="container">  
        <h2>Bank Transaction</h2>  
        <form method="post">
```

```

<input type="text" name="account" placeholder="Account Number" required><br>
<input type="number" name="amount" placeholder="Amount" required><br>
<button name="action" value="deposit">Deposit</button>
<button name="action" value="withdraw">Withdraw</button>
</form>
<div class="result">
  <%
    String result = "";
    try {
      String account = request.getParameter("account");
      String amountStr = request.getParameter("amount");
      String action = request.getParameter("action");
      if (account != null && amountStr != null && action != null) {
        double amount = Double.parseDouble(amountStr);
        InitialContext ctx = new InitialContext();

        TransactionBeanRemote bean = (TransactionBeanRemote)
ctx.lookup("java:global/BankApp/TransactionBean!com.ejb.TransactionBeanRemote");

        if ("deposit".equals(action)) {
          double newBalance = bean.deposit(account, amount);
          result = "Deposit successful. New balance: ₹" + newBalance;
        } else if ("withdraw".equals(action)) {
          double newBalance = bean.withdraw(account, amount);
          result = "Withdraw successful. New balance: ₹" + newBalance;
        }
      }
    } catch (Exception e) {
      result = "Error: " + e.getMessage();
    }
    out.println(result);

    // Initialize account balance in session if not already set
    Double balance = (Double) session.getAttribute("balance");
    if (balance == null) {
      balance = 0.0;
      session.setAttribute("balance", balance);
    }
  %>
</div>

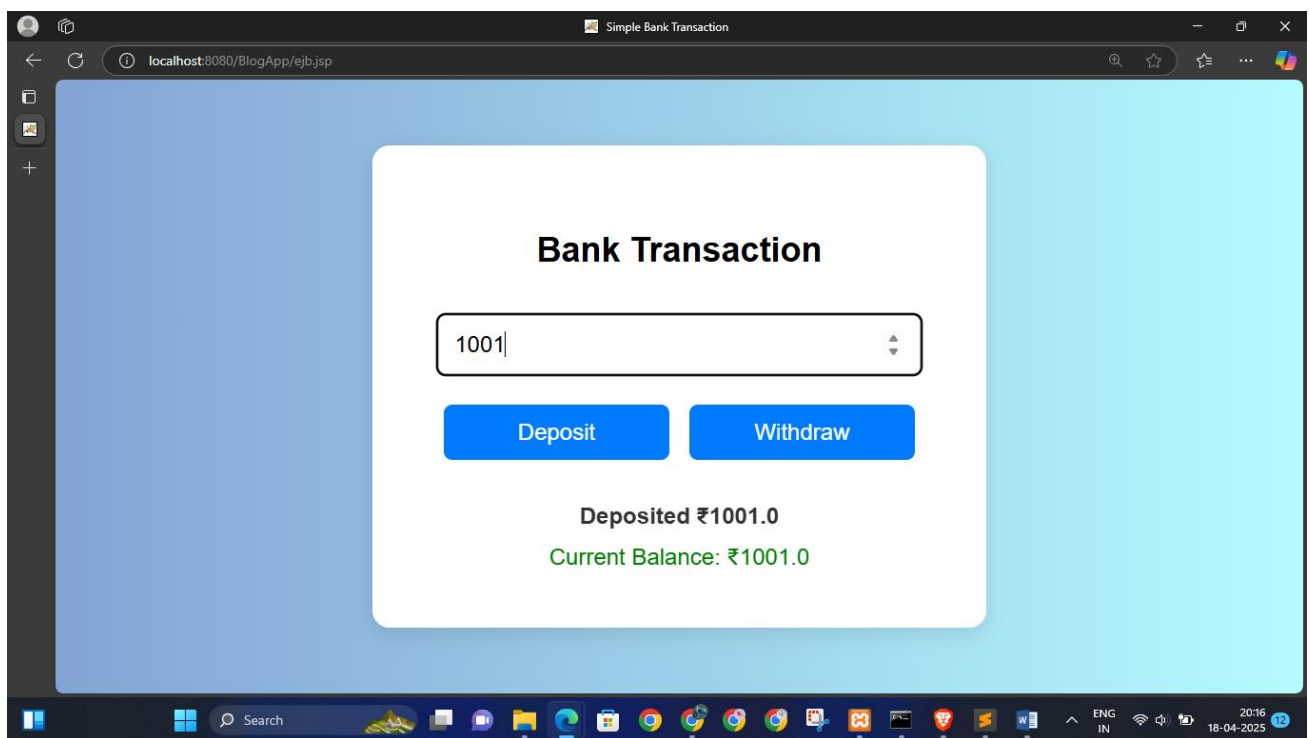
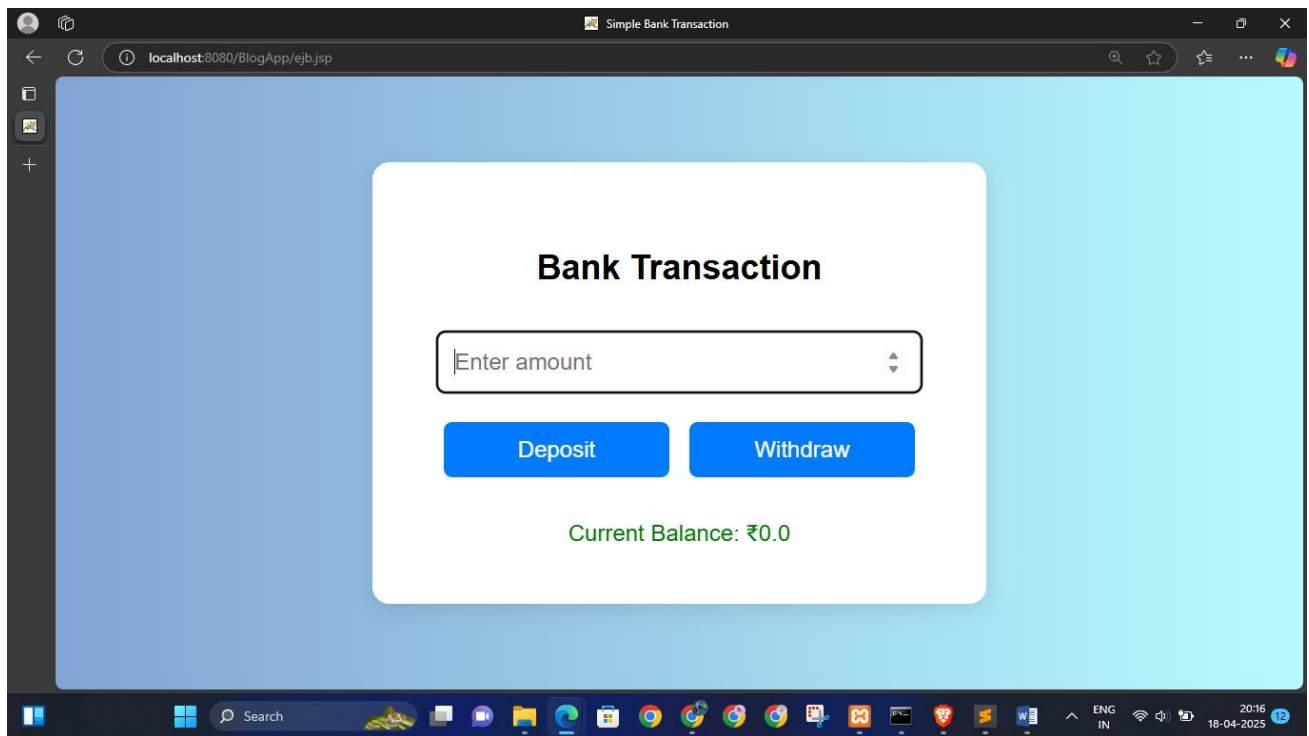
```

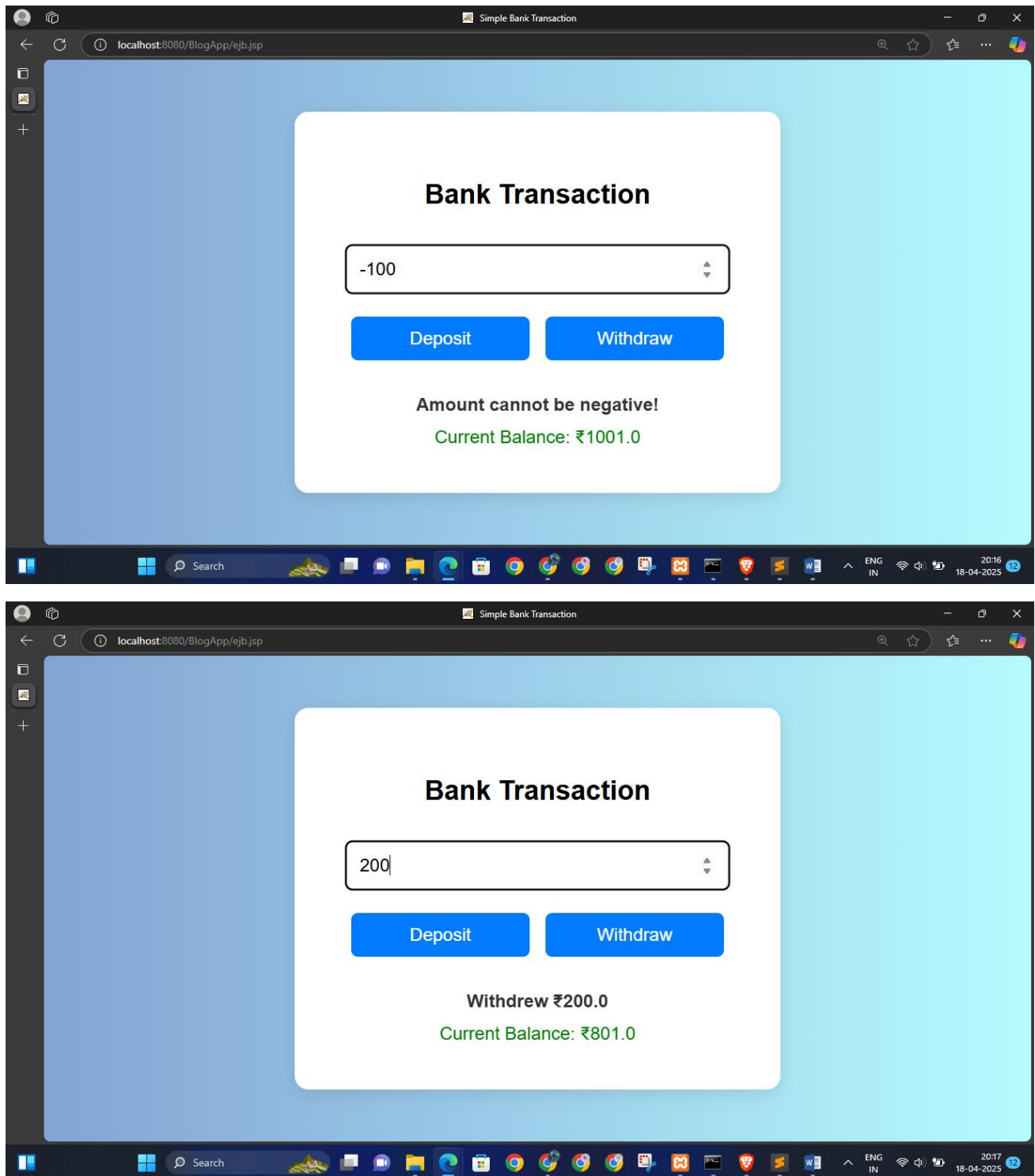
```

    }/*
String message = "";
String action = request.getParameter("action");
String amountStr = request.getParameter("amount");
if (action != null && amountStr != null) {
    try {
        double amount = Double.parseDouble(amountStr);
        if (amount < 0) {
            message = "Amount cannot be negative!";
        } else {
            if ("deposit".equals(action)) {
                balance += amount;
                message = "Deposited ₹" + amount;
            } else if ("withdraw".equals(action)) {
                if (amount > balance) {
                    message = "Insufficient funds!";
                } else {
                    balance -= amount;
                    message = "Withdrew ₹" + amount;
                }
            }
            session.setAttribute("balance", balance);
        }
    } catch (NumberFormatException e) {
        message = "Invalid amount!";
    }
}*/
    %>
</div>
</div>
</body>
</html>

```

The output is as follows:





Conclusion: Thus we successfully implemented business logic using java bean for bank transaction simple logic and a web interface