

**Institute of Computer Technology
B. Tech Computer Science and Engineering
Sub: Web Application Development**

Practical 12

Dev involved in web application project, and he needs to develop a web application, named "Online Net Banking" for implementing database operations using JSP Technology.

a)Customer Account Registration (customer_register.jsp)

customer_register.jsp:

b)Customer Account Login Validation (customer_login.jsp)

customer_login.jsp:

c)Bank Account Registration

d)Customer Deposit Operation

e)Customer Withdraw Operation

f)View All Customer Details with account balances in the form of table.

Customer_login.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Customer Login</title>
```

```
<style>
```

```
    form {
        border: 3px solid #f1f1f1;
    }
```

```
input[type=text], input[type=password] {
    width: 100%;
    padding: 12px 20px;
    margin: 8px 0;
    display: inline-block;
    border: 1px solid #ccc;
    box-sizing: border-box;
}
```

```
button {
    background-color: #04AA6D;
    color: white;
    padding: 14px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 100%;
}
```

```
button:hover {
```

```
    opacity: 0.8;
}

.container {
    padding: 16px;
}

a {
    color: dodgerblue;
}

.signup {
    background-color: #f1f1f1;
    text-align: center;
}

@media screen and (max-width: 300px) {
    span.psw {
        display: block;
        float: none;
    }
    .cancelbtn {
        width: 100%;
    }
}

</style>
</head>
<body>
<h1>Customer Login</h1>
    <hr>
        <form action="customer_login_validation.jsp" method="post">
            <div class="container">
                <label for="uname"><b>Email</b></label>
                <input type="text" placeholder="Email" name="email" required>

                <label for="psw"><b>Password</b></label>
                <input type="password" placeholder="Enter Password" name="psw" required>
                <button type="submit">Login</button>
            </div>
            <div class="container signup">
                <p>Don't have an account? <a href="customer_register.jsp">Sign up</a>.</p>
            </div>
        </form>
    </body>
</html>
```

customer_login_validation:

```
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.PreparedStatement"%>
```

```

<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Customer Login Validation</title>
</head>
<body>
    <%
        String email,pass;
        int counter=0;
        email=request.getParameter("email");
        pass=request.getParameter("psw");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3307/prac12","root","root"
);
        PreparedStatement p=con.prepareStatement("insert into cust_login
values(?,?)");
        p.setString(1, email);
        p.setString(2, pass);
        p.executeUpdate();
        Statement stmt=con.createStatement();
        ResultSet rs=stmt.executeQuery("select * from cust_register");
        while(rs.next())
        {
            if(email.equals(rs.getString("Email")) &&
pass.equals(rs.getString("Pass")))
            {
                RequestDispatcher
rd=request.getRequestDispatcher("bank_login.jsp");
                rd.forward(request,response);
                counter+=1;
            }
        }
        if (counter==0)
        {
            out.println("<h3 style=\"color:red;text-align:center;margin-top:-
330px;\">Wrong Credentials</h3>");
            RequestDispatcher
rd1=request.getRequestDispatcher("customer_login.jsp");
            rd1.include(request,response);
        }
    %>
</body>
</html>

```

Customer_registration.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Customer Register Validation</title>
<style>
    * {box-sizing: border-box}

.container {
    padding: 16px;
}

input[type=text], input[type=password] , input[type=number]{
    width: 100%;
    padding: 15px;
    margin: 5px 0 22px 0;
    display: inline-block;
    border: none;
    background: #f1f1f1;
}

input[type=text]:focus, input[type=password]:focus {
    background-color: #ddd;
    outline: none;
}

#add{
    width: 100%;
    padding: 15px;
    margin: 5px 0 22px 0;
    display: inline-block;
    border: none;
    background: #f1f1f1;
}

.registerbtn {
    background-color: #04AA6D;
    color: white;
    padding: 16px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 100%;
    opacity: 0.9;
}

.registerbtn:hover {
    opacity:1;
```

```
}
</style>
</head>
<body>
    <form action="customer_registration_validation.jsp" method="post">
    <div class="container">
        <h1>Customer Registration</h1>
        <p>Please fill in this form to create an account.</p>
        <hr>

        <label for="email"><b>Email</b></label>
        <input type="text" placeholder="Enter Email" name="email" id="email" required>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="psw" id="psw"
required>

        <label for="fn"><b>First Name</b></label>
        <input type="text" placeholder="Enter First Name" name="fn" id="fn" required>

        <label for="ln"><b>Last Name</b></label>
        <input type="text" placeholder="Enter Last Name" name="ln" id="ln" required>

        <label for="age"><b>Age</b></label>
        <input type="number" placeholder="Enter Age" name="age" id="age" required>

        <label><b>Gender</b></label><br>
        <input type="radio" id="male" name="gender" value="male">
            <label for="male">Male</label>
        <input type="radio" id="female" name="gender" value="female">
            <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other">
            <label for="other">Other</label><br><br>

        <label for="add"><b>Address</b></label><br>
        <textarea id="add" rows=6 cols=300 name="add">Enter Address</textarea>

        <label for="pn"><b>Phone Number</b></label>
        <input type="number" placeholder="Enter Phone Number" name="pn" id="pn"
required>

        <button type="submit" class="registerbtn">Register</button>
    </div>
</form>
</body>
</html>
```

Customer_registration_validation:

```
<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.DriverManager"%>
```

```
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" errorPage="error.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Customer Registration</title>
</head>
<body>
    <%
        String email,pass,fn,ln,age,gender,add,pn;
        email=request.getParameter("email");
        pass=request.getParameter("psw");
        fn=request.getParameter("fn");
        ln=request.getParameter("ln");
        age=request.getParameter("age");
        gender=request.getParameter("gender");
        add=request.getParameter("add");
        pn=request.getParameter("pn");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3307/prac12","root","root"
);
        PreparedStatement p=con.prepareStatement("insert into cust_register
values(?,?,?,?,?,?,?,?)");
        p.setString(1, email);
        p.setString(2, pass);
        p.setString(3, fn);
        p.setString(4, ln);
        p.setString(5, age);
        p.setString(6, gender);
        p.setString(7, add);
        p.setString(8, pn);
        p.executeUpdate();
        RequestDispatcher
rd=request.getRequestDispatcher("customer_login.jsp");
        rd.forward(request, response);
    %>
</body>
</html>
```

Bank_login.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Bank Login</title>
<style>
```

```
    form {
    border: 3px solid #f1f1f1;
}

input[type=text], input[type=password] {
    width: 100%;
    padding: 12px 20px;
    margin: 8px 0;
    display: inline-block;
    border: 1px solid #ccc;
    box-sizing: border-box;
}

button {
    background-color: #04AA6D;
    color: white;
    padding: 14px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 100%;
}

button:hover {
    opacity: 0.8;
}

.container {
    padding: 16px;
}

a {
    color: dodgerblue;
}

.signup {
    background-color: #f1f1f1;
    text-align: center;
}

@media screen and (max-width: 300px) {
    span.psw {
        display: block;
        float: none;
    }
    .cancelbtn {
        width: 100%;
    }
}
</style>
```

```

</head>
<body>
<h1>Login to your Bank Account</h1>
  <hr>
    <form action="bank_login_validation.jsp" method="post">
      <div class="container">
        <label for="uname"><b>Email</b></label>
        <input type="text" placeholder="Email" name="email" required>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="psw" required>
        <button type="submit">Login</button>
      </div>
      <div class="container signup">
        <p>Don't have an account? <a href="bank_register.jsp">Sign up</a>.</p>
      </div>
    </form>
  </body>
</html>

```

Bank_login_validation:

```

<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Bank Login Validation</title>
</head>
<body>
  <%
    String email,pass;
    int counter=0;
    email=request.getParameter("email");
    pass=request.getParameter("psw");
    Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3307/prac12","root","root"
);
    Statement stmt=con.createStatement();
    ResultSet rs=stmt.executeQuery("select * from bank_register");
    while(rs.next())
    {
      if(email.equals(rs.getString("Email")) &&
pass.equals(rs.getString("Pass")))
      {

```



```

        session.setAttribute("user_name",
rs.getString("User_Name"));
        RequestDispatcher
rd=request.getRequestDispatcher("dashboard.jsp");
        rd.forward(request, response);
        counter+=1;
    }
}
if (counter==0)
{
    out.println("<h3 style=\"color:red;text-align:center;margin-top:-
430px;\">Wrong Credentials</h3>");
    RequestDispatcher
rd1=request.getRequestDispatcher("bank_login.jsp");
    rd1.include(request,response);
}
%>
</body>
</html>

```

Bank_register.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Bank Register Validation</title>
<style>
    * {box-sizing: border-box}

.container {
    padding: 16px;
}

input[type=text], input[type=password] , input[type=number]{
    width: 100%;
    padding: 15px;
    margin: 5px 0 22px 0;
    display: inline-block;
    border: none;
    background: #f1f1f1;
}

input[type=text]:focus, input[type=password]:focus {
    background-color: #ddd;
    outline: none;
}

#add{

```

```
width: 100%;  
padding: 15px;  
margin: 5px 0 22px 0;  
display: inline-block;  
border: none;  
background: #f1f1f1;  
}
```

```
.registerbtn {  
background-color: #04AA6D;  
color: white;  
padding: 16px 20px;  
margin: 8px 0;  
border: none;  
cursor: pointer;  
width: 100%;  
opacity: 0.9;  
}
```

```
.registerbtn:hover {  
opacity: 1;  
}
```

</style>

</head>

<body>

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

<div class="container">

<h1>Register Yourself To Our Bank</h1>

<p>Please fill in this form to create an account.</p>

<hr>

<label for="email">Email</label>

<input type="text" placeholder="Enter Email" name="email" id="email" required>

<label for="psw">Password</label>

<input type="password" placeholder="Enter Password" name="psw" id="psw" required>

<label for="un">User Name</label>

<input type="text" placeholder="Enter User Name" name="un" id="un" required>

<label for="am">Amount</label>

<input type="number" placeholder="Enter amount" name="am" id="am" required>

<label for="an">Aadhaar Number</label>

<input type="number" placeholder="Enter Aadhaar Number" name="an" id="an" required>

<label for="acctype">Account Type</label>

<select name="acctype" id="acctype">

```

        <option value="savings">Savings</option>
        <option value="recurring">Recurring</option>
    </select>

    <button type="submit" class="registerbtn">Register</button>
</div>
</form>
</body>
</html>

```

Bank_register_validation.jsp:

```

<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" errorPage="error1.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Customer Registration</title>
</head>
<body>
    <%
        String email, pass, amount, aadhaar, account_type, u_name;
        email = request.getParameter("email");
        pass = request.getParameter("psw");
        amount = request.getParameter("am");
        aadhaar = request.getParameter("an");
        account_type = request.getParameter("acctpye");
        u_name = request.getParameter("un");
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3307/prac12", "root", "root");
        PreparedStatement p = con.prepareStatement("insert into bank_register
values(?,?,?,?,?,?)");
        p.setString(1, email);
        p.setString(2, pass);
        p.setString(3, amount);
        p.setString(4, aadhaar);
        p.setString(5, account_type);
        p.setString(6, u_name);
        p.executeUpdate();
        RequestDispatcher rd = request.getRequestDispatcher("bank_login.jsp");
        rd.forward(request, response);
    %>
</body>
</html>

```

Dashboard.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Dashboard</title>
<style>
    .deposit:hover{
        background:#0eed9b !important;
    }
    .withdraw:hover{
        background:#4ab1f0 !important;
    }
    .b:hover{
        background:#f1f1f1 !important;
        border-radius:18px;
    }
    .session{
        font-size:25px !important;
        position: fixed;
        top: 25px;
        left: 40px;
        width: 250px;
        font-family:arial;
    }

</style>
</head>
<body>
    <div style="text-align:right">
        <a href="invalidate.jsp"><button class="b" type="submit"
style="width:150px;height:50px;background:none;border:none;font-size:20px;">Sign
Out</button></a>
    </div>
    <div style="margin-top:200px;margin-left:250px;">
        <a href="deposit.jsp"><button class="deposit" type="submit"
style="width:400px;height:200px;background:#f1f1f1;border:solid 1px #f1f1f1;font-
size:30px;background:#04AA6D;color:white;border-
radius:42px">Deposit</button></a>
    </div>
    <div style="margin-left:800px;margin-top:-200px">
        <a href="withdraw.jsp"><button class="withdraw" type="submit"
style="width:400px;height:200px;background:#4ab1f0;border:solid 1px #f1f1f1;font-
size:30px;background:#1DA1F2;color:white;border-
radius:42px;">Withdraw</button></a>
    </div>
    <%
        String n="Welcome "+(String)session.getAttribute("user_name");
```

```

        %>
        <a class="session"><%=n%></a>
    </body>
</html>

```

Invalidate.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Sign Out</title>
</head>
<body>
    <%
        session.invalidate();
        out.println("<h3 style=\"color:red;text-align:center;margin-top:-
330px;\">Successfully Logged out</h3>");
        RequestDispatcher
rd1=request.getRequestDispatcher("bank_login.jsp");
        rd1.include(request,response);
    %>
</body>
</html>

```

Deposit.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Deposit</title>
<style>
    form {
        border: 3px solid #f1f1f1;
    }

    input[type=text], input[type=number] {
        width: 100%;
        padding: 12px 20px;
        margin: 8px 0;
        display: inline-block;
        border: 1px solid #ccc;
        box-sizing: border-box;
    }

    button {
        background-color: #04AA6D;

```

```
color: white;
padding: 14px 20px;
margin: 8px 0;
border: none;
cursor: pointer;
width: 100%;
}

button:hover {
  opacity: 0.8;
}

.container {
  padding: 16px;
}

a {
  color: dodgerblue;
}

.signup {
  background-color: #f1f1f1;
  text-align: center;
}

@media screen and (max-width: 300px) {
  span.psw {
    display: block;
    float: none;
  }
  .cancelbtn {
    width: 100%;
  }
}

</style>
</head>
<body>
<h1>Deposit</h1>
  <hr>
    <form action="deposit_validation.jsp" method="post">
<div class="container">
  <label for="uname"><b>Reciever's Username</b></label>
  <input type="text" placeholder="Enter usernsme" name="rs" required>

  <label for="psw"><b>Amount</b></label>
  <input type="number" placeholder="Enter amount" name="a" required>
  <button type="submit">Commit</button>
</div>
<div class="container signup">
  <p>Want to go to Dashboard? <a href="dashboard.jsp">Click Here</a>.</p>
```

```

    </div>
</form>
</body>
</html>

```

Deposit_validation.jsp:

```

<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Deposit Validation</title>
</head>
<body>
    <%
        String reciever,sender;
        int amount,count=0,counter=0;
        reciever=request.getParameter("rs");
        amount=Integer.parseInt(request.getParameter("a"));
        sender=(String)session.getAttribute("user_name");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3307/prac12","root","root"
);
        Statement
stmt=con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CO
NCUR_UPDATABLE);
        Statement
stmt1=con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CO
NCUR_UPDATABLE);
        ResultSet rs=stmt.executeQuery("select * from bank_register");
        ResultSet rs1=stmt1.executeQuery("select * from bank_register");
        while(rs.next())
        {
            if(reciever.equals(rs.getString("User_Name")))
            {
                while(rs1.next())
                {
                    if(sender.equals(rs1.getString("User_Name")))
                    {
                        counter+=1;
                        if(amount<=rs1.getInt("Amount"))
                        {
                            rs1.updateInt("Amount",
(rs1.getInt("Amount")-amount));
                            rs1.updateRow();

```

```

RequestDispatcher
rd=request.getRequestDispatcher("deposit.jsp");
out.println("<h3
style=\"color:green;text-align:center;margin-top:-325px\">Successful
Transaction</h3>");

rd.include(request,response);
count+=1;
}
else
{
RequestDispatcher
rd=request.getRequestDispatcher("deposit.jsp");
out.println("<h3 style=\"color:red;text-
align:center;margin-top:-325px\">Insufficient Balance</h3>");
rd.include(request, response);
}
}
}
if(count==1)
{
rs.updateInt("Amount",
(rs.getInt("Amount")+amount));
rs.updateRow();
}
}
}
if(counter==0)
{
RequestDispatcher
rd=request.getRequestDispatcher("deposit.jsp");
out.println("<h3 style=\"color:red;text-align:center;margin-top:-
325px\">Wrong Username</h3>");
rd.include(request, response);
}
%>
</body>
</html>

```

Withdraw.jsp:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Withdraw</title>
<style>
    form {
        border: 3px solid #f1f1f1;
    }

```



```
input[type=text], input[type=number] {  
  width: 100%;  
  padding: 12px 20px;  
  margin: 8px 0;  
  display: inline-block;  
  border: 1px solid #ccc;  
  box-sizing: border-box;  
}
```

```
button {  
  background-color: #04AA6D;  
  color: white;  
  padding: 14px 20px;  
  margin: 8px 0;  
  border: none;  
  cursor: pointer;  
  width: 100%;  
}
```

```
button:hover {  
  opacity: 0.8;  
}
```

```
.container {  
  padding: 16px;  
}
```

```
a {  
  color: dodgerblue;  
}
```

```
.signup {  
  background-color: #f1f1f1;  
  text-align: center;  
}
```

```
@media screen and (max-width: 300px) {  
  span.psw {  
    display: block;  
    float: none;  
  }  
  .cancelbtn {  
    width: 100%;  
  }  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Withdraw</h1>
```

```
<hr>
```

```

        <form action="withdraw_validation.jsp" method="post">
<div class="container">
    <label for="uname"><b>Sender's Username</b></label>
    <input type="text" placeholder="Enter usernsme" name="su" required>

    <label for="psw"><b>Amount</b></label>
    <input type="number" placeholder="Enter amount" name="a" required>
    <button type="submit">Commit</button>
</div>
<div class="container signup">
    <p>Want to go to Dashboard? <a href="dashboard.jsp">Click Here</a>.</p>
</div>
</form>
</body>
</html>

```

Withdraw_validation.jsp:

```

<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Withdraw Validation</title>
</head>
<body>
    <%
        String reciever,sender;
        int amount,count=0,counter=0;
        sender=request.getParameter("su");
        amount=Integer.parseInt(request.getParameter("a"));
        reciever=(String)session.getAttribute("user_name");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3307/prac12","root","root"
);
        Statement
stmt=con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CO
NCUR_UPDATABLE);
        Statement
stmt1=con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CO
NCUR_UPDATABLE);
        ResultSet rs=stmt.executeQuery("select * from bank_register");
        ResultSet rs1=stmt1.executeQuery("select * from
bank_register");
        while(rs.next())
    {

```

```

        if(sender.equals(rs.getString("User_Name")))
        {
            if(amount<=rs.getInt("Amount"))
            {
                rs.updateInt("Amount", (rs.getInt("Amount")-
amount));

                rs.updateRow();
                count+=1;
            }
            else
            {
                RequestDispatcher
rd=request.getRequestDispatcher("withdraw.jsp");
                out.println("<h3 style=\"color:red;text-
align:center;margin-top:-325px\">Insufficient Balance</h3>");
                rd.include(request, response);
            }
            counter+=1;
            break;
        }
    }
    while(rs1.next())
    {
        if(reciever.equals(rs1.getString("User_Name")) &&
count==1)
        {
            rs1.updateInt("Amount",
(rs1.getInt("Amount")+amount));
            rs1.updateRow();
            RequestDispatcher
rd=request.getRequestDispatcher("withdraw.jsp");
            out.println("<h3 style=\"color:green;text-
align:center;margin-top:-325px\">Successful Transaction</h3>");
            rd.include(request,response);
            break;
        }
    }
    if(counter==0)
    {
        RequestDispatcher
rd=request.getRequestDispatcher("withdraw.jsp");
        out.println("<h3 style=\"color:red;text-align:center;margin-
top:-325px\">Wrong Username</h3>");
        rd.include(request, response);
    }
    %>
</body>
</html>

```

Error.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" isErrorPage="true"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error Page</title>
</head>
<body>
    <%
        RequestDispatcher
rd=request.getRequestDispatcher("customer_register.jsp");
        out.println("<h3 style='color:red;text-align:center;margin-top:-
860px\''>Duplicate Entry</h3>");
        rd.include(request, response);
    %>
</body>
</html>
```

Error1.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" isErrorPage="true"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error Page 1</title>
</head>
<body>
    <%
        RequestDispatcher
rd=request.getRequestDispatcher("bank_register.jsp");
        out.println("<h3 style='color:red;text-align:center;margin-top:-
560px\''>Duplicate Entry</h3>");
        rd.include(request, response);
    %>
</body>
</html>
```

Admin.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Login</title>
<style>
    form {
        border: 3px solid #f1f1f1;
```

```
}

input[type=text], input[type=password] {
  width: 100%;
  padding: 12px 20px;
  margin: 8px 0;
  display: inline-block;
  border: 1px solid #ccc;
  box-sizing: border-box;
}

button {
  background-color: #04AA6D;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  cursor: pointer;
  width: 100%;
}

button:hover {
  opacity: 0.8;
}

.container {
  padding: 16px;
}

@media screen and (max-width: 300px) {
  span.psw {
    display: block;
    float: none;
  }
  .cancelbtn {
    width: 100%;
  }
}

</style>
</head>
<body>
<h1>Admin Module</h1>
  <hr>
    <form action="view.jsp" method="post">
<div class="container">
  <label for="uname"><b>Username</b></label>
  <input type="text" placeholder="Enter Username" name="un" required>

  <label for="psw"><b>Password</b></label>
```

```
        <input type="password" placeholder="Enter Password" name="psw"
required>
        <button type="submit">Login</button>
    </div>
</form>
</body>
</html>
```

View.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin Login</title>
<style>
    form {
        border: 3px solid #f1f1f1;
    }

    input[type=text], input[type=password] {
        width: 100%;
        padding: 12px 20px;
        margin: 8px 0;
        display: inline-block;
        border: 1px solid #ccc;
        box-sizing: border-box;
    }

    button {
        background-color: #04AA6D;
        color: white;
        padding: 14px 20px;
        margin: 8px 0;
        border: none;
        cursor: pointer;
        width: 100%;
    }

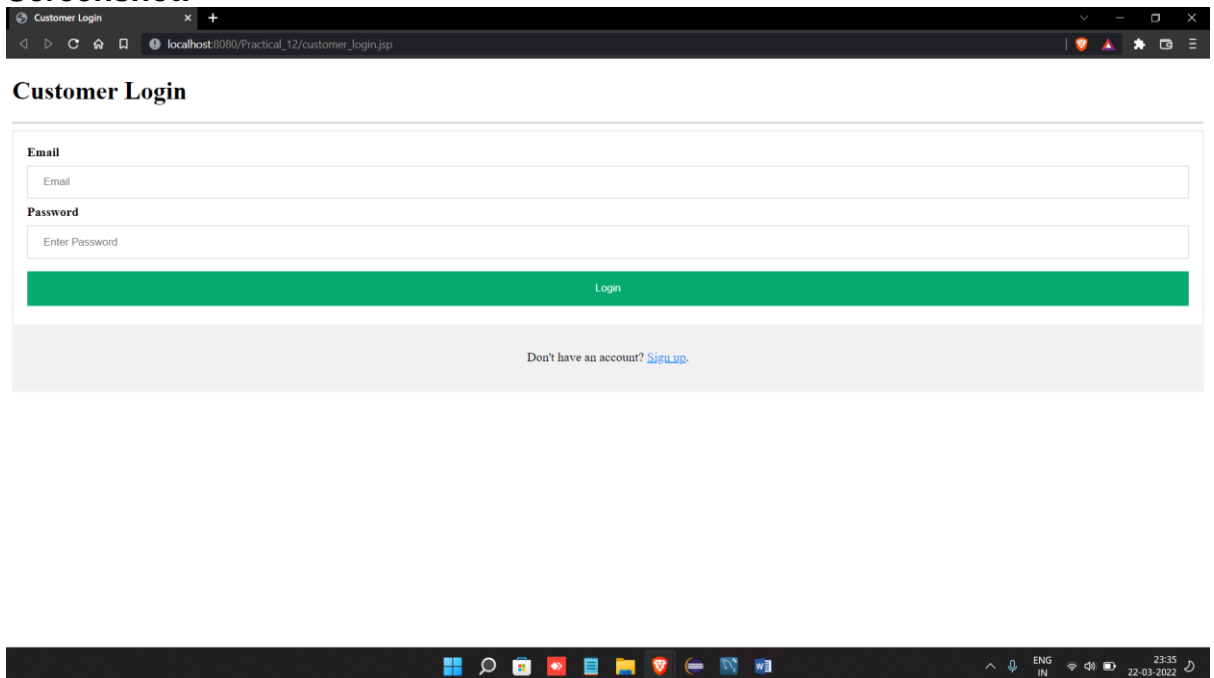
    button:hover {
        opacity: 0.8;
    }

    .container {
        padding: 16px;
    }

    @media screen and (max-width: 300px) {
        span.psw {
```

```
        display: block;
        float: none;
    }
    .cancelbtn {
        width: 100%;
    }
}
</style>
</head>
<body>
<h1>Admin Module</h1>
    <hr>
        <form action="view.jsp" method="post">
            <div class="container">
                <label for="uname"><b>Username</b></label>
                <input type="text" placeholder="Enter Username" name="un" required>

                <label for="psw"><b>Password</b></label>
                <input type="password" placeholder="Enter Password" name="psw"
required>
                <button type="submit">Login</button>
            </div>
        </form>
    </body>
</html>
```

Screenshot:

Customer Register Validation

localhost:8080/Practical_12/customer_register.jsp

Customer Registration

Please fill in this form to create an account.

Email

1@123gmail.com

Password

First Name

a

Last Name

s

Age

18

Gender

☒ Male ☐ Female ☐ Other

Address

Enter Address

Customer Login

localhost:8080/Practical_12/customer_registration_validation.jsp

Customer Login

Email

1@123gmail.com

Password

Login

Don't have an account? [Sign up.](#)

Bank Login

localhost:8080/Practical_12/customer_login_validation.jsp

Login to your Bank Account

Email

Password

Login

Don't have an account? [Sign up.](#)

Bank Register Validation

localhost:8080/Practical_12/bank_register.jsp

Register Yourself To Our Bank

Please fill in this form to create an account.

Email

Password

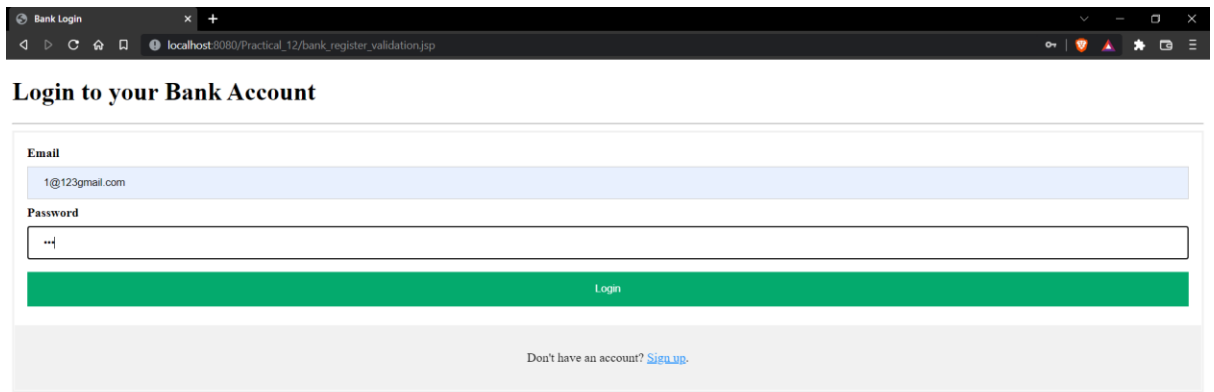
User Name

Amount

Aadhaar Number

Account Type Savings

Register



Bank Login

localhost:8080/Practical_12/bank_register_validation.jsp

Login to your Bank Account

Email

1@123gmail.com

Password

...

Login

Don't have an account? [Sign up.](#)



Dashboard

localhost:8080/Practical_12/bank_login_validation.jsp

Welcome as

Sign Out



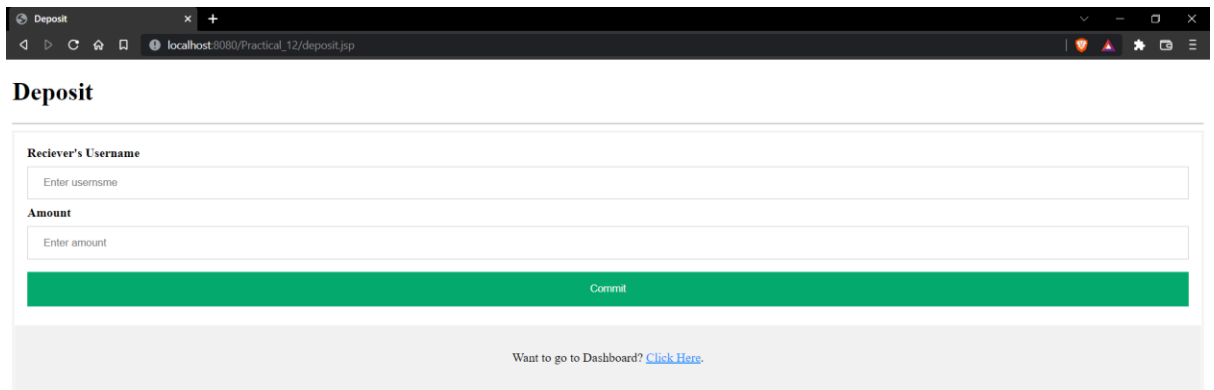
Deposit

Withdraw



Deposit

Withdraw



Deposit

Reciever's Username

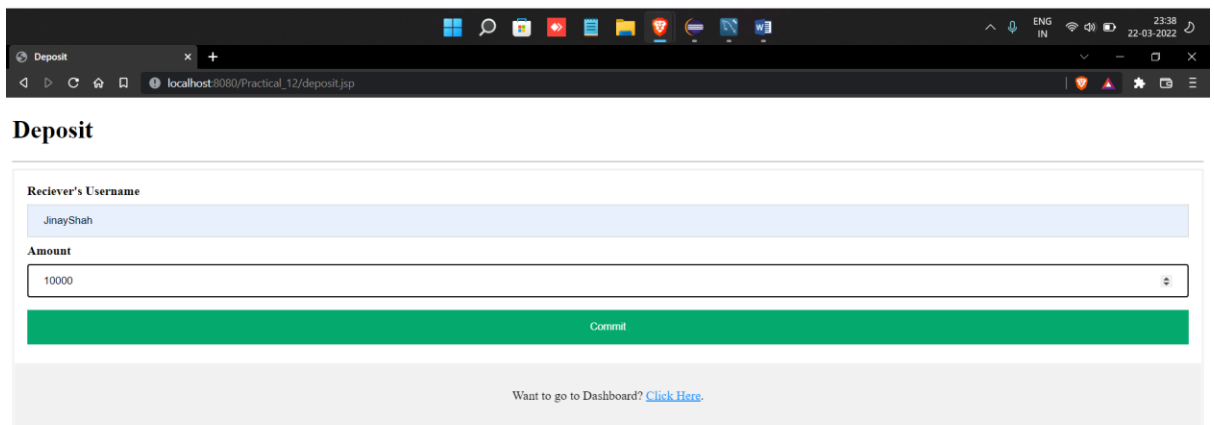
Enter usersme

Amount

Enter amount

Commit

Want to go to Dashboard? [Click Here](#).



Deposit

Reciever's Username

JinayShah

Amount

10000

Commit

Want to go to Dashboard? [Click Here](#).

Deposit

localhost:8080/Practical_12/deposit_validation.jsp

Deposit

Successful Transaction

Receiver's Username

Enter username

Amount

Enter amount

Commit

Want to go to Dashboard? [Click Here](#).

MySQL Workbench

Local instance MySQL80

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Administration Schemas

Information

No object selected

Object Info Session

bank_register

Limit to 1000 rows

1 * SELECT * FROM prac12.bank_register;

Result Grid

Email	Pass	Amount	AcctNumber	Account_type	User_Name
1@123@gmail.com	789	20000	123456245	savings	as
jinayshah20@gnu.ac.in	123	80000	1234567890	savings	JinayShah
pratishah@tmail.com	456	50000	789456	savings	PratikShah

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

Action Output

#	Time	Action	Message	Duration / Fresh
13	23:08:00	SELECT * FROM prac12.bank_register LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
14	23:35:54	SELECT * FROM prac12.cust_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
15	23:37:36	SELECT * FROM prac12.cust_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
16	23:38:01	SELECT * FROM prac12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
17	23:38:35	SELECT * FROM prac12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
18	23:39:27	SELECT * FROM prac12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Deposit

localhost:8080/Practical_12/deposit_validation.jsp

Deposit

Reciever's Username Insufficient Balance

Amount

Commit

Want to go to Dashboard? [Click Here](#).

Deposit

localhost:8080/Practical_12/deposit_validation.jsp

Deposit

Reciever's Username Wrong Username

Amount

Commit

Want to go to Dashboard? [Click Here](#).

Deposit

localhost:8080/Practical_12/deposit_validation.jsp

Deposit

Reciever's Username Wrong Username

Amount

Commit

Want to go to Dashboard? [Click Here](#).

Withdraw

Sender's Username
JinayShah

Amount
50000

Commit

Want to go to Dashboard? [Click Here](#).

MySQL Workbench

Local instance MySQL80

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- sakila
- sys
- wad_jdbc
- world

Administration Schemas

Information

No object selected

Object Info Session

bank_register

Limit to 1000 rows

1 • SELECT * FROM pract12.bank_register;

Result Grid

Email	Pass	Amount	Aadhaar_Number	Account_type	User_Name
1@123@gmail.com	789	20000	123456245	savings	as
jinayshah20@gmail.com	123	80000	1234567890	savings	JinayShah
pratikkshah@gmail.com	456	50000	789456	savings	PratikShah

bank_register 5 x

Output

#	Time	Action	Message	Duration / Fetch
15	23:37:36	SELECT * FROM pract12.cust_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
16	23:38:01	SELECT * FROM pract12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
17	23:38:35	SELECT * FROM pract12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
18	23:39:27	SELECT * FROM pract12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
19	23:40:33	SELECT * FROM pract12.bank_register LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
20	23:41:07	SELECT * FROM pract12.bank_register LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

Withdraw

Sender's Username Successful Transaction

Enter username

Amount

Enter amount

Commit

Want to go to Dashboard? [Click Here](#).

MySQL Workbench

Local instance MySQL80

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sys

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world

Administration Schemas

Information

No object selected

Object Info Session

bank_register

Limit to 1000 rows

1 SELECT * FROM pract12.bank_register;

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Email	Pass	Amount	AcctNumber	Account_type	User_Name
1@123@gmail.com	789	70000	123456789	savings	as
jinayshah20@gnu.ac.in	123	30000	1234567890	savings	JinayShah
pratikkshah@tmail.com	456	50000	789456	savings	PratikShah

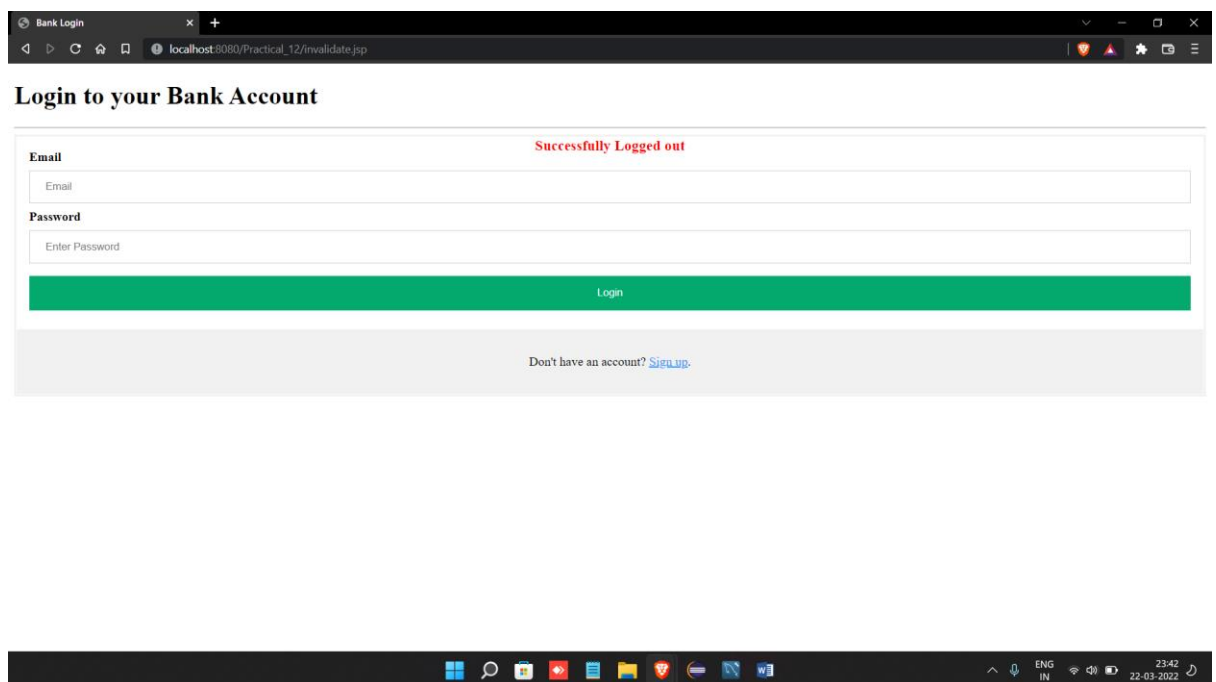
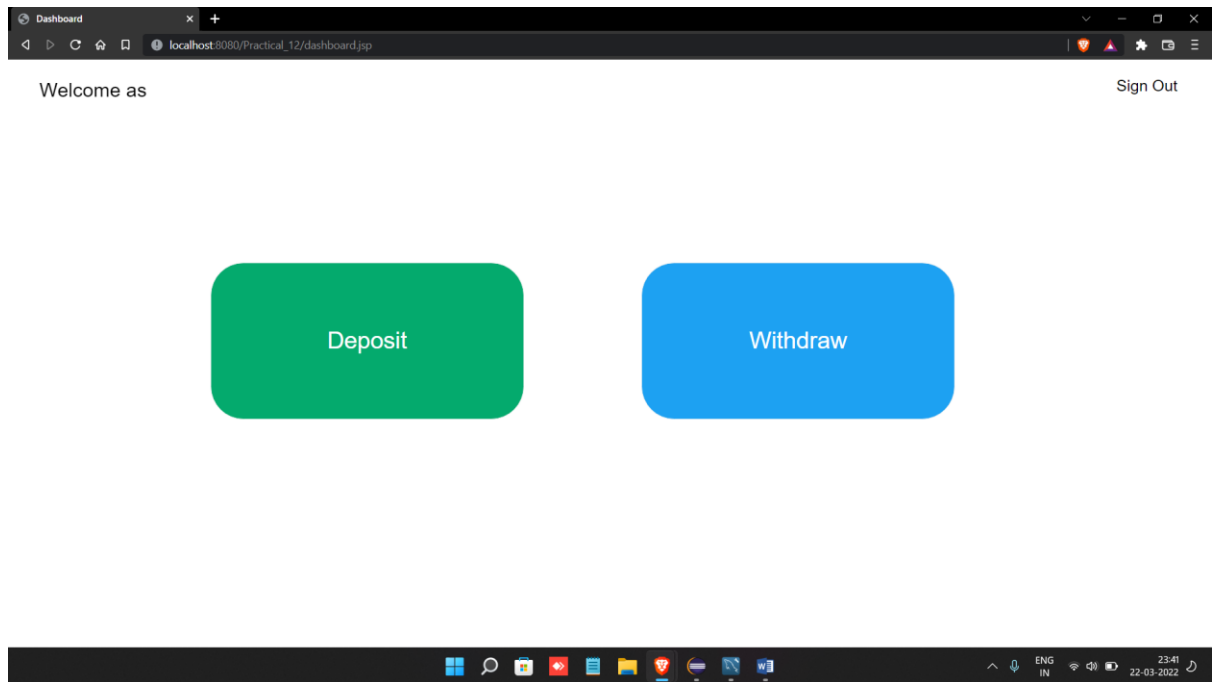
bank_register 6 x

Apply Revert Context Help Snippets

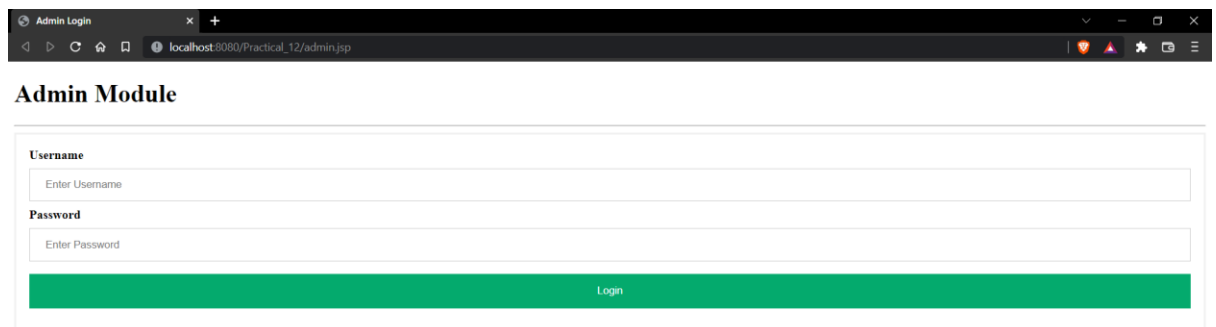
Output

#	Time	Action	Message	Duration / Fetch
16	23:38:01	SELECT * FROM pract12.bank_register LIMIT 0.1000	3 row(s) returned	0.000 sec / 0.000 sec
17	23:38:35	SELECT * FROM pract12.bank_register LIMIT 0.1000	3 row(s) returned	0.000 sec / 0.000 sec
18	23:39:27	SELECT * FROM pract12.bank_register LIMIT 0.1000	3 row(s) returned	0.000 sec / 0.000 sec
19	23:40:33	SELECT * FROM pract12.bank_register LIMIT 0.1000	3 row(s) returned	0.000 sec / 0.000 sec
20	23:41:07	SELECT * FROM pract12.bank_register LIMIT 0.1000	3 row(s) returned	0.016 sec / 0.000 sec
21	23:41:27	SELECT * FROM pract12.bank_register LIMIT 0.1000	3 row(s) returned	0.031 sec / 0.000 sec

• Doing Signout



- Admin Module:



Admin Login

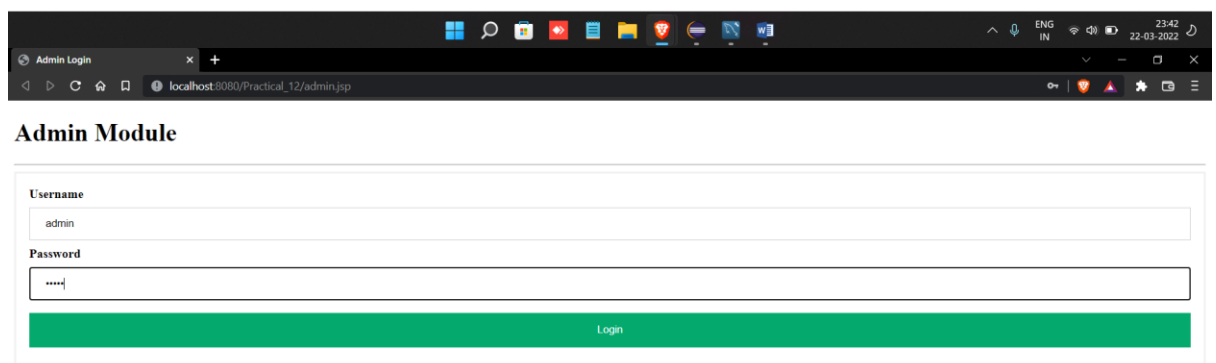
localhost:8080/Practical_12/admin.jsp

Admin Module

Username

Password

Login



Admin Login

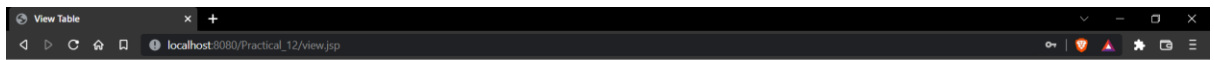
localhost:8080/Practical_12/admin.jsp

Admin Module

Username

Password

Login



Bank Registration Details

1@123gmail.com	789	70000	123456245	savings	as
jlnayshah20@gnu.ac.in	123	30000	1234567890	savings	JlnayShah
pratkrshah@tmail.com	456	50000	789456	savings	PratikShah

Customer Registration Details

1@123gmail.com	789	a	s	18	male	Enter Address	7410
jlnayshah20@gnu.ac.in	123	Jlnay	Shah	18	male	Enter Address	123
pratkrshah@tmail.com	456	Pratik	Shah	45	male	Enter Address	789



Admin Module

Username

Password

Login



