SOURCE CODE

Register Code:

```jsp
<%@page import="java.util.Date"%>

<%@page import="java.text.DateFormat"%>

<%@page import="java.text.SimpleDateFormat"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%

  DateFormat dateFormat2 = new SimpleDateFormat("dd/MM/yyyy hh:mm aa");

  String rdate=dateFormat2.format(new Date());

%>

<!DOCTYPE html>

<html>

  <head>

    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

    <title>Cryptographic Key Exchange</title>

    <link rel="stylesheet" type="text/css" href="design.css" media="screen" />

    <script language="javascript">

function validation(thisform)

{

     with(thisform)

     {

          if(uname.value=="")

          {

          alert("Please Enter User Name...!")

          uname.focus();
```

```
                return false

                }

}

with(thisform)

{

        if(password.value=="")

        {

        alert("Please Enter Password...!")

        password.focus();

        return false

        }

}

with(thisform)

{

        if(gender.value=="")

        {

        alert("Please Select Gender...!")

        gender.focus();

        return false

        }

}

with(thisform)

{

        var a=document.form1.age.value;
```

```
if(a=="")
{
        alert("Please Enter Your Age...!")

        document.form1.age.focus();

        return false
}
if((a.length!=2))
{
        alert("Please Enter Your Age...!")

        document.form1.age.focus();

        return false
}
}
with(thisform)
{
        var x=document.forms["form1"]["email"].value;

        var atpos=x.indexOf("@");

        var dotpos=x.lastIndexOf(".");

        if (atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length)
        {
                alert("Not a Valid E-Mail Address");

        document.form1.email.focus();

                return false;
        }
}
```

```
with(thisform)
{
        var a=document.form1.mno.value;


        if(a=="")
        {
                alert("Please Enter Mobile No...!")
                document.form1.mno.focus();
                return false
        }
        if(isNaN(a))
        {
                alert("Please Enter Valid Mobile No...!")
                document.form1.mno.focus();
                return false
        }
        if((a.length!=10))
        {
                alert("Please Enter 10 Digit Mobile No...!")
                document.form1.mno.select();
                return false
        }
}
with(thisform)
{
```

```javascript
                if(address.value=="")

                {

                alert("Please Enter Address...!")

                address.focus();

                return false

                }

        }

}

function onlyNos(e, t)

{

        try

        {

    if (window.event)

        {

                var charCode = window.event.keyCode;

        }

        else if (e)

        {

                var charCode = e.which;

        }

        else

        {

                return true;

        }

        if (charCode > 31 && (charCode < 48 || charCode > 57))
```

```
            {

               return false;

            }

                     return true;

            }

         catch (err)

         {

                     alert(err.Description);

         }

   }

</script>

   </head>

   <body>

      <div id="container">


  <div id="header"></div>


  <div id="menu">
   <ul>
     <li><a href="index.html" title="">HOME</a></li>
     <li><a href="Client.jsp" title="">CLIENT</a>
     <li><a href="Server1.jsp" title="">SERVER-1</a>
     <li><a href="Server2.jsp" title="">SERVER-2</a>
     <li><a href="Register.jsp" title="">REGISTER</a>
     </li>
```

```html
      </ul>

    </div>


  <div id="content">
   <div id="work">

        <div id="work_title">Client Register</div>

        <div id="work_content">

            <form name="form1" method="post" action="regAction" onSubmit="return
validation(this);">

                    <table width="318" height="329" border="0" align="center">

  <tbody>

   <tr>

     <td width="133" align="right">User Name:</td>

     <td width="175"><input type="text" name="uname" id="txt"></td>

   </tr>

   <tr>

     <td align="right">Password:</td>

     <td><input type="password" name="password" id="txt"></td>

   </tr>

   <tr>

     <td align="right">Gender:</td>

     <td>

     <select name="gender" id="txt">

         <option value="">Select Gender</option>

         <option value="Male">Male</option>
```

```
        <option value="Female">Female</option>

  </select>

  </td>

 </tr>

 <tr>

  <td align="right">Age:</td>

  <td><input    type="text    name="age"    id="txt"    maxlength="2"    onKeyPress="return
onlyNos(event,this);"></td>

  </tr>

  <tr>

   <td align="right">E-Mail ID:</td>

   <td><input type="text" name="email" id="txt"></td>

  </tr>

  <tr>

   <td align="right">Mobile Number:</td>

   <td><input    type="text    name="mno"    id="txt"    maxlength="10"    onKeyPress="return
onlyNos(event,this);"></td>

  </tr>

  <tr>

   <td align="right">Address:</td>

   <td><textarea name="address" id="atxt"></textarea></td>

  </tr>

  <tr>

   <td align="right">Date:</td>

   <td><input type="text" name="rdate" id="txt" value="<%=rdate%>" readonly></td>

  </tr>
```

```html
          <tr>

            <td align="center"><input type="submit" name="submit" value="Register" id="btn"/></td>

            <td align="center"><input type="reset" name="reset" value="Clear" id="btn"/></td>

          </tr>

        </tbody>

    </table>


                </form>

            </div>

        </div>

        <div style="clear: both;"></div>


      </div>


      <div id="footer"> <span></span> </div>


</div>

        </body>

</html>
```

Register Action:

package WorkAction;

import Database.connectdb;

import java.io.IOException;

```java
import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


@WebServlet(name = "regAction", urlPatterns = {"/regAction"})
public class regAction extends HttpServlet
{
    Connection con = null;

    PreparedStatement statement = null;

    ResultSet rs = null;


    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter())
        {
            String uname = request.getParameter("uname");
```

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

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

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

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

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

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

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


//Database Connect

con = connectdb.getCon();


String query1 = "select * from client where uname=? OR password=? OR email=?";

statement = (PreparedStatement) con.prepareStatement(query1);

statement.setString(1, uname);

statement.setString(2, password);

statement.setString(3, email);

rs = statement.executeQuery();

if (rs.next())

{

    out.println("<script type=\"text/javascript\">");

    out.println("alert('Already Client Registered...!');");

    out.println("location='Register.jsp';");

    out.println("</script>");

}

else
```

```java
{
    String query = "insert into client (uname,password,gender,age,email,mno,address,rdate) values (?,?,?,?,?,?,?,?)";

    statement = con.prepareStatement(query);

    statement.setString(1, uname);

    statement.setString(2, password);

    statement.setString(3, gender);

    statement.setString(4, age);

    statement.setString(5, email);

    statement.setString(6, mno);

    statement.setString(7, address);

    statement.setString(8, rdate);


    int i = statement.executeUpdate();
    if (i > 0)
    {
        out.println("<script type=\"text/javascript\">");
        out.println("alert('Client Register Successfully...!');");
        out.println("location='Client.jsp';");
        out.println("</script>");
    }
    else
    {
        response.sendRedirect("Register.jsp");
    }
```

```java
            }

        }

        catch (SQLException ex)

        {

            ex.printStackTrace();

        }

    }


    // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

    /**

     * Handles the HTTP <code>GET</code> method.

     *

     * @param request servlet request

     * @param response servlet response

     * @throws ServletException if a servlet-specific error occurs

     * @throws IOException if an I/O error occurs

     */

    @Override

    protected void doGet(HttpServletRequest request, HttpServletResponse response)

            throws ServletException, IOException {

        processRequest(request, response);

    }


    /**
```

```java
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
}// </editor-fold>

}
```

Client Login:

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

    <head>

        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

        <title>Cryptographic Key Exchange</title>

        <link rel="stylesheet" type="text/css" href="design.css" media="screen" />

        <script language="javascript">

function validation(thisform)

{

        with(thisform)

        {

                if(uname.value=="")

                {

                alert("Please Enter User Name...!")

                uname.focus();

                return false

                }

        }

        with(thisform)

        {

                if(password.value=="")

                {

                alert("Please Enter Password...!")
```

```
                    password.focus();

                    return false

                    }

            }

}

</script>

    </head>

    <body>

        <div id="container">


    <div id="header"></div>


    <div id="menu">
     <ul>
       <li><a href="index.html" title="">HOME</a></li>
       <li><a href="Client.jsp" title="">CLIENT</a>
       <li><a href="Server1.jsp" title="">SERVER-1</a>
       <li><a href="Server2.jsp" title="">SERVER-2</a>
       <li><a href="Register.jsp" title="">REGISTER</a>
       </li>
      </ul>
    </div>


    <div id="content">
     <div id="work">
```

```html
<div id="work_title">Client Login</div>

<div id="work_content">

        <form  name="form1"  method="post"  action="loginAction"  onSubmit="return
validation(this);">

                <table width="285" height="143" border="0" align="center">

  <tbody>

   <tr>

    <td width="133" align="right">User Name:</td>

    <td width="175"><input type="text" name="uname" id="txt"></td>

   </tr>

   <tr>

    <td align="right">Password:</td>

    <td><input type="password" name="password" id="txt"></td>

   </tr>

   <tr>

    <td align="center"></td>

    <td align="center"><input type="submit" name="submit" value="Login" id="btn"/></td>

   </tr>

  </tbody>

</table>


                </form>

        </div>

    </div>

    <div style="clear: both;"></div>
```

```html
    </div>


  <div id="footer"> <span></span> </div>


</div>

  </body>

</html>
```

Login Code:

```java
package WorkAction;


import Database.connectdb;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;
```

```java
@WebServlet(name = "loginAction", urlPatterns = {"/loginAction"})

public class loginAction extends HttpServlet

{

    Connection con = null;

    PreparedStatement ps = null;

    ResultSet rs = null;


    protected void processRequest(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException

    {

        response.setContentType("text/html;charset=UTF-8");


        HttpServletRequest httpRequest = (HttpServletRequest) request;

        HttpSession session = httpRequest.getSession();


        try (PrintWriter out = response.getWriter())

        {

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

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


            con = connectdb.getCon();


            String query = "select * from client where uname=? OR password=?";

            ps = (PreparedStatement) con.prepareStatement(query);
```

```java
        ps.setString(1, uname);

        ps.setString(2, password);

        rs = ps.executeQuery();

        if (rs.next())

        {

          session.setAttribute("cid", rs.getString("cid"));

          session.setAttribute("uname", rs.getString("uname"));

          response.sendRedirect("ClientHome.jsp");

        }

        else

        {

          out.println("<script type=\"text/javascript\">");

          out.println("alert('Client User Name and Password Incorrect...!');");

          out.println("location='Client.jsp';");

          out.println("</script>");

        }

      }

      catch (SQLException ex)

      {

        ex.printStackTrace();

      }

   }


   // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the
left to edit the code.">
```

```java
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
    processRequest(request, response);
}


/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
```

```java
        processRequest(request, response);

    }


    /**

     * Returns a short description of the servlet.

     *

     * @return a String containing servlet description

     */

    @Override

    public String getServletInfo() {

        return "Short description";

    }// </editor-fold>


}
```