

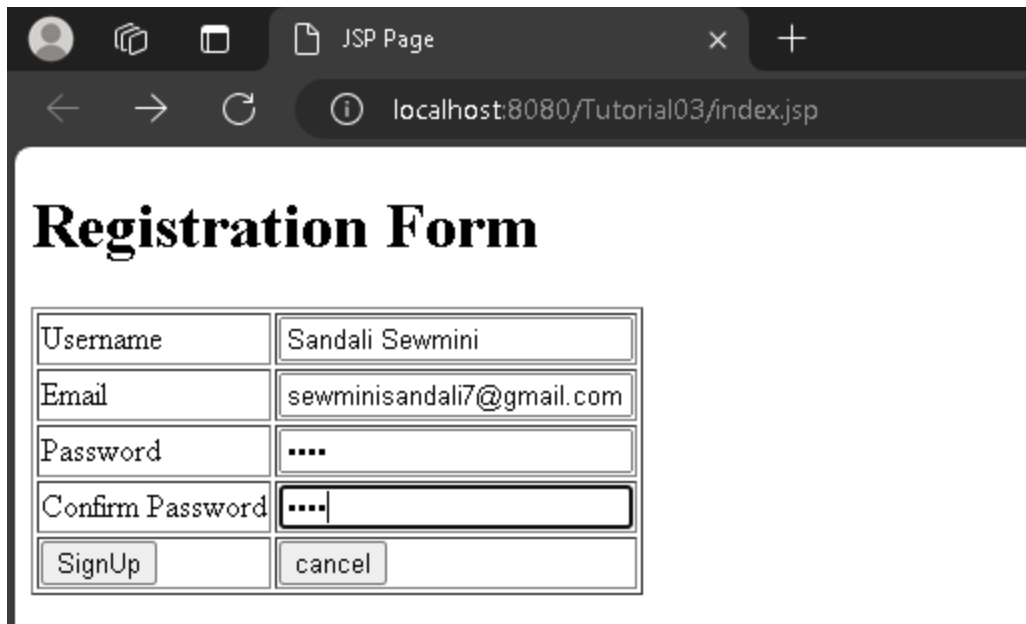
## Tutorial 03

Answer all questions.

- 1) Create a new JAVA web project in NetBeans. Design a minimal interface for a registration form in the 'index.JSP'. The Registration form should include these fields.
  - a. Username
  - b. Email
  - c. Password
  - d. Confirm Password

### Index.jsp

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h1>Registration Form</h1>
    <form action="SignupServlet" method="POST">
      <table border="1">
        <tbody>
          <tr><td>Username</td>
            <td><input type="text" name="uname" value=""/></td></tr>
          <tr><td>Email</td>
            <td><input type="text" name="email" value=""/></td> </tr>
          <tr><td>Password</td>
            <td><input type="password" name="pass" value=""/></td> </tr>
          <tr>
            <td>Confirm Password</td>
            <td><input type="password" name="passe" value=""/></td>
          </tr>
          <tr>
            <td><input type="submit" value="SignUp"/></td>
            <td><input type="reset" value="cancel"/></td>
          </tr>
        </tbody>
      </table>
    </form>
  </body>
</html>
```



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Tutorial03/index.jsp'. The page title is 'JSP Page'. The main content is a registration form titled 'Registration Form'. The form contains the following fields and buttons:

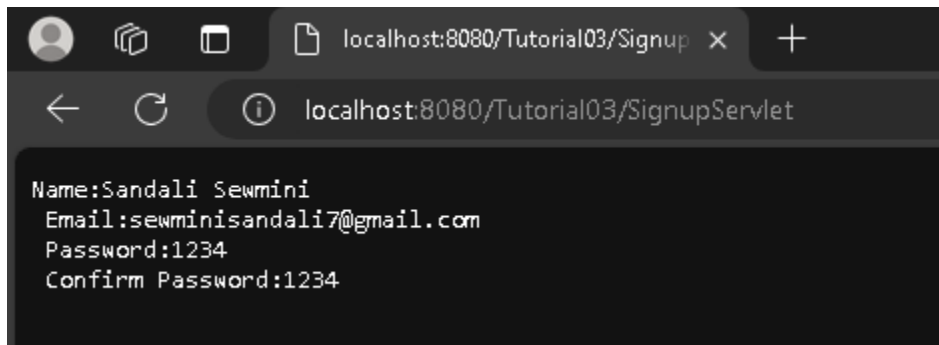
Username	Sandali Sewmini
Email	sewminisandali7@gmail.com
Password	....
Confirm Password	....
SignUp	cancel

02) Create a servlet named SignupServlet that extends HttpServlet. Implement the doPost method to handle the requests.

#### SignupServlet.java

```
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    String name=request.getParameter("uname");
    String email=request.getParameter("email");
    String password=request.getParameter("pass");
    String ConfirmPassword=request.getParameter("passe");

    PrintWriter out=response.getWriter();
    out.println("Name:"+name);
    out.println(" Email:"+email);
    out.println(" Password:"+password);
    out.println(" Confirm Password:"+ConfirmPassword);
    //processRequest(request, response);
}
```



3) Validate the Username where the user can only enter a name with characters from a-z and 0-9. Display an error message if the requirements are not fulfilled.

```
-      */  
    @Override  
    protected void doPost(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        String username = request.getParameter("username");  
        String password = request.getParameter("password");  
  
        // Validate username (allow only alphanumeric characters)  
        if (!username.matches("[a-zA-Z0-9]+")) {  
            // Display error message for invalid username  
            response.getWriter().println("Invalid username! Only characters from a-z and 0-9 are allowed.");  
        }  
  
        // Validate password (require at least one special character)  
        if (!password.matches(".*[!@#$%^&*()\\-_+=\\\\\\\\|\\\\\\\\[(\\\\\\\\)]);:'\".,<.>/?].*")) {  
            // Display error message for invalid password  
            response.getWriter().println("Invalid password! Password must contain at least one special character.");  
        }  
  
        //processRequest(request, response);  
    }  
}
```

4) Validate the password where the user needs to have at least one special character. If the password does not meet the requirements display a message through a popout box.

[illegible]

5) Check whether the set password and the password fields have equal values to validate the password. If the passwords do not match set out an alert box with the error message.

[illegible]