

# Course: Web Application Development

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Web Resources: <http://125.234.238.107/web/web-application-development>

## Lab 2: Advance HTML and CSS (Cascading Style Sheet)

### Contents:

- **Objects:**
- **Form**
- **CSS**

**Duration:** 3 hours

### Part 1: Objects

In the HTML file, open source code and use the following objects below to create a webpage

- **Textbox**  
`<input type="text" name="T1" size="33">`
- **Check-box**  
`<input type="checkbox" name="c1" value="ON">Computer Graphic <br>`  
`<input type="checkbox" name="c2" value="ON">Computer Network <br>`  
`<input type="checkbox" name="c3" value="ON">Introduction to Computer<br>`  
`<input type="checkbox" name="c4" value="ON">Web Programming<br>`
- **Radio**  
`<input type="radio" value="r1" checked name="red">Red`  
`<input type="radio" value="r2" checked name="blue">Blue`  
`<input type="radio" value="r3" checked name="green">Green`
- **Button**  
`<input type="submit" value="Submit" name="s1">`  
`<input type="reset" value="Reset" name="s2">`
- **Combo-box**  
`<select name="Type">`  
`<option>Reading</option>`  
`<option>Whatching TV</option>`  
`<option>Studying</option>`  
`<option>Shopping</option>`  
`<option>Internet</option>`  
`</select>`
- **Text-area**  
`<textarea rows="number of rows" name="tr1" cols="number of columns"></textarea>`

## Part 2: design Form

A form is any section of a web page where a user can input information (though sometimes form elements are used to display information rather than collect it)

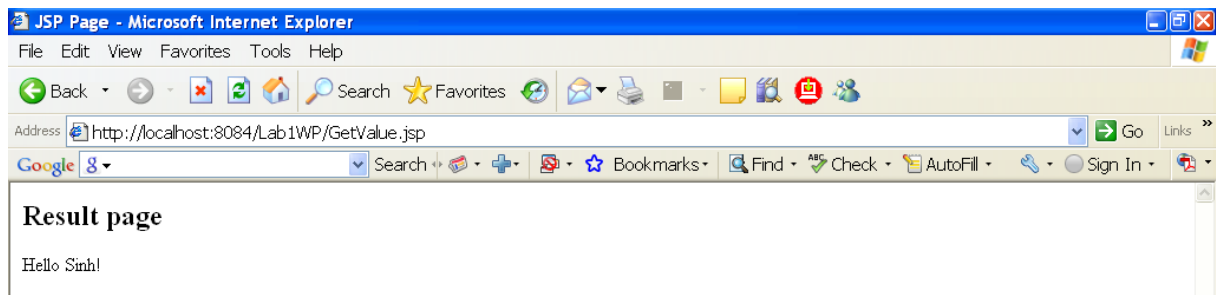
Example: This is source code of file InputPage.jsp

```
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h2>Please Input The Value!</h2>
    <form method="post" action="GetValue.jsp">
      <input type="text" name = "tx1"><br>
      <input type="Submit" value= "Submit">
    </form>
  </body>
</html>
```



This is the source code of file GetValue.jsp

```
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h2>Result page</h2>
    <%
      String value = request.getParameter("tx1");
      out.print("Hello "+value+"!");
    %>
  </body>
</html>
```



Exercise: You create a form like this:

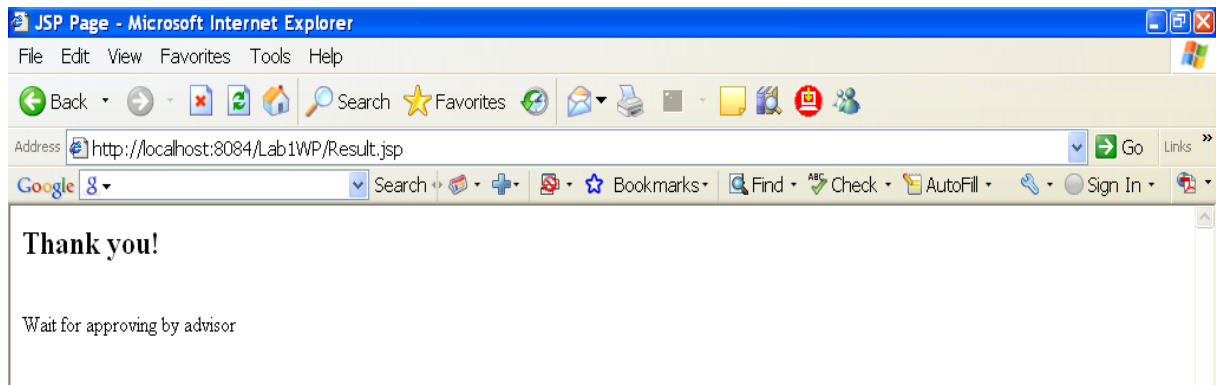
The screenshot shows a web browser window with the title 'JSP Page - Microsoft Internet Explorer'. The address bar contains 'http://localhost:8084/Lab1WP/RegisterForm.jsp'. The page content is a registration form titled 'School of Computer Science & Engineering' and 'Register Form'. The form includes the following elements:

- Full Name**: A text input field.
- ID**: A text input field.
- Email**: A text input field.
- Gender**: Radio buttons for 'Male' (selected) and 'Female'.
- Fiel of study**: A dropdown menu (Combo-box) with 'CS' selected.
- List of subjects**: A list of checkboxes:
  - ☐ Principle of EE 1
  - ☐ Computer Network
  - ☐ Web Application Development
  - ☐ Object Oriented Programming
  - ☐ Computer Graphics
- Comments**: A large text area.
- Buttons**: 'Submit' and 'Cancel' buttons at the bottom.

Callouts from a diagram point to specific form elements:

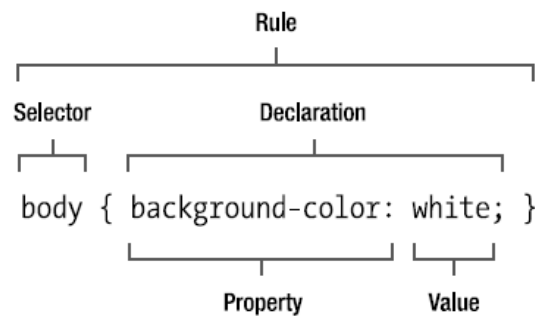
- Text field**: Points to the 'Full Name' input field.
- Radio**: Points to the 'Male' radio button.
- Combo-box**: Points to the 'Fiel of study' dropdown menu.
- Check-box**: Points to the 'Web Application Development' checkbox.
- Text-Area**: Points to the 'Comments' text area.

After input information and click “Submit” button, the result like this:



### Part 3: CSS

CSS can add style to your pages, enhancing and improving the presentation of your content.



There are 3 types of CSS:

- External Style Sheet: It is declared and stored in the separate file, then can add and use in all the web pages of the website.
- Internal Style Sheet: It is declared on the header of web page and use for only this page.
- In - line Style Sheet: It is declared in the tag of HTML and use for this line.

#### Example of External Style Sheet:

```
<html>
<head>
  <title>Spaghetti and Cruft : Our Menu</title>
  <link rel="stylesheet" type="text/css" href="styles.css" />
</head>
<body>
  <h2>Testing External Style Sheet</h2>
  <p>This is the content of page </p>
</body>
</html>
```

#### This is the content of styles.css

```
h2 {font-size: 130%; color:red};
p {font-size: 120%; color:blue};
```

**Example of Internal Style Sheet:**

```
<html>
  <head>
    <STYLE TYPE = "text/css">
      H1.titlepage {text-align: center;color: red }

    </STYLE>
  </head>
  <body>
    <H1 class=titlepage>Introduction!</H1>
    <h2>Hello World!</h2>
    <h3>This is lab section of Web Application Development</h3>
  </body>
</html>
```

**Example of In-Line Style Sheet:**

```
P STYLE = "background:blue;color:red">
```