# **Course: Web Application Development**

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# Lab 2: HTML Form and CSS.

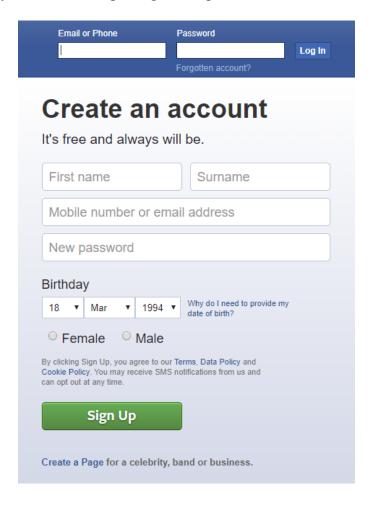
#### **Contents:**

- o HTML Form:
- o Form Elements
- o Design Form
- o CSS
- Exercises

**Duration**: 3 hours

## Part 1: HTML Form

HTML forms (sometimes called webform or web form) are useful when you want to collect data from user. You can easily encounter form when surfing the Internet: some websites ask you to fill a registration form for membership, e-commerce website ask for order forms, social networks usually have forms for posting status, photos and videos...



Example: Facebook's simple registration form

In general, a form will take input from user and send to back-end server as a HTTP request message. The server may process input based on defined business logic and return response if needed.

To define a form in HTML files, we use <form> element:

```
<form method="..." action="..." target="..." > //some form elements </form>
```

In the example above, the form has three attributes:

- **method:** HTTP request methods, it can be GET, POST, PUT or DELETE depended on the purpose of your form.
- **action:** defines the corresponding action will be performed when the form is submitted. For example, if action = "register.jsp", the input will be sent to page register.jsp when user submit the form.
- **target:** specifies the response from the server will be displayed in current or new browser tab.

# **Part 2: Form Elements**

Form elements are different types of HTML input elements, like text fields, checkboxes, radio buttons, submit buttons... The most important element is <input>, it can be displayed in several ways, depending on the type attribute. For examples:

### 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/>or><input type="checkbox" name="c4" value="ON">Web Programming<br/>or>
```

## 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">
```

Besides <input> there are also other input elements like <select>, <textarea>, <button>:

### Drop-down list (Select)

```
<select name="Type">
  <option>Reading</option>
  <option>Whatching TV</option>
  <option>Studying</option>
  <option>Shoping</option>
  <option>Internet</option>
</select>
```

- Text-area
  - <textarea rows="number of rows" name="tr1" cols="number of columns"></textarea>
- Button

```
<button type="button" onclick="alert('Hello World!')">Click Me!</button>
```

In HTML5, we have two more form elements <a href="datalist">datalist</a>> and <a href="output">output</a>>. However, these new elements will not be displayed on old browser (and may cause errors).

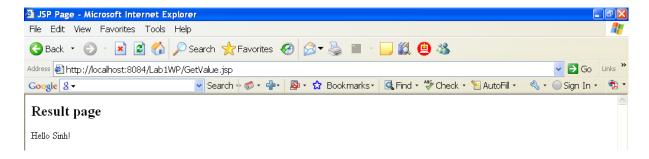
For more input types, please visit this link:

https://www.w3schools.com/html/html form input types.asp

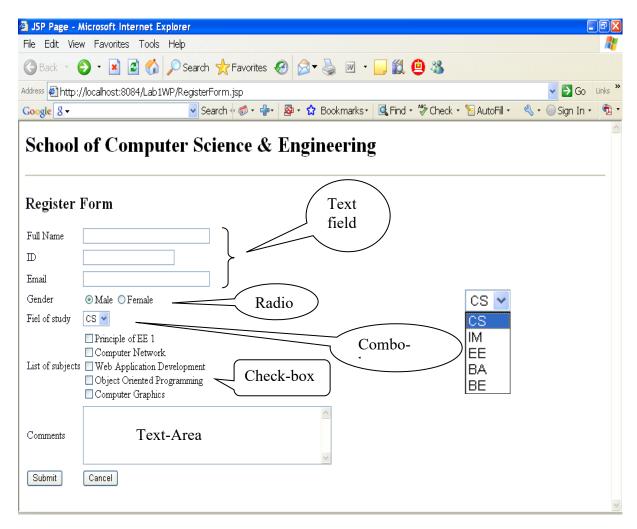
# Part 3: Design Form

```
Open your IDE and create a file named InputPage.jsp with content like this:
<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>
JSP Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
③ Back ▼ ② ▼ 🗷 🙎 🏠 🔎 Search 🤸 Favorites 🚱 🙈 ▼ 🌉 ▼ 📙 🐒 🚇 🦓
Address <equation-block> http://localhost:8084/Lab1WP/InputPage.jsp
                                                                                     Go Links "
Google 8 -
                           🔻 Search 🖟 🧔 🕶 🚽 - 🔯 Bookmarks 🗸 🖳 Find 🕶 👺 Check 🔻 🖺 AutoFill 🔻
                                                                                 🔦 🕶 🔘 Sign In 🕶
 Please Input The Value!
 Submit
Create another file named 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: Try to create a simple form like this

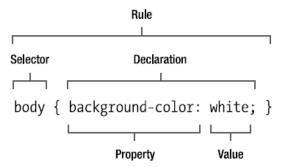


After input information and click "Submit" button, the result should be displayed like:



## Part 4: 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>
This is the content of page 
</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 }
```

```
</bd>
</bd>
</bd>
</bd>
</bd>
```

# **Assignment**

Task 1: Complete above exercises.

Task 2: Improve and finish Assignment 1 (create at least 2 forms for your personal website)