

# Tutorial 05 – HTML Form

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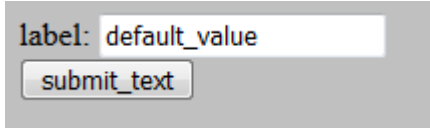
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## Learning Outcomes

1. HTML Form
2. Different Input types
3. Difference between GET and POST method

## HTML Forms for Data Input

- An HTML element that allows a web page to collect data and send it back to the web server or an e-mail recipient
- Begins and ends with the two form tags, <FORM> and </FORM>, and has at least one <INPUT> tag
- Uses standard Windows elements (text boxes, check boxes, radio buttons, drop-down lists)

<pre>&lt;form name="form_name"       method="POST" action="URL"&gt; label: &lt;input type="text" value="default_value" name="input_name"&gt;       &lt;input type="submit" value="submit_text"&gt; &lt;/form&gt;</pre>	
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## Type of Input

### Text Field

Username: <pre>&lt;INPUT TYPE="text" NAME="p_user" SIZE="15"&gt;</pre>	Username: <input type="text" value="SEHH1016"/>
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### Password Field

Password: <pre>&lt;INPUT TYPE="password" NAME="p_password"&gt;</pre>	Password: <input type="password" value="..."/>
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### Check box field

<pre>&lt;P&gt; What is your favourite sport(s)?&lt;BR&gt; &lt;INPUT TYPE="checkbox" NAME="p_sport" VALUE="football"&gt; Football&lt;BR&gt;  &lt;INPUT TYPE="checkbox" NAME="p_sport" VALUE="baseball" CHECKED&gt; Baseball&lt;BR&gt;  &lt;INPUT TYPE="checkbox" NAME="p_sport" VALUE="basketball"&gt; Basketball&lt;BR&gt;  &lt;/P&gt;</pre>	What is your favourite sport(s)? <input type="checkbox"/> Football <input checked="" type="checkbox"/> Baseball <input type="checkbox"/> Basketball
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### Radio Button Field

<pre>&lt;P&gt;What is your gender?&lt;BR&gt; &lt;INPUT TYPE="radio" NAME="p_gender" VALUE="m" CHECKED&gt; Male&lt;BR&gt;  &lt;INPUT TYPE="radio" NAME="p_gender" VALUE="f"&gt; Female&lt;BR&gt;  &lt;/P&gt;</pre>	What is your gender? <input checked="" type="radio"/> Male <input type="radio"/> Female
---	---

- What is the difference between Check Box and Radio Button?

## Text area field

<pre>Comments:&lt;BR&gt; &lt;TEXTAREA NAME ="p_comment" ROWS ="4" COLS ="40"&gt; Default text here... &lt;/TEXTAREA&gt;</pre>	Comments: <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">Default text here...</div>
---	---

## Select List Fields

<pre>Your favourite fruit:&lt;BR&gt; &lt;SELECT NAME="p_fruit" SIZE=4&gt; &lt;OPTION VALUE="apple"&gt; Apple&lt;/OPTION&gt; &lt;OPTION VALUE="banana" SELECTED&gt; Banana&lt;/OPTION&gt; &lt;OPTION VALUE="pineapple"&gt; Pineapple &lt;/OPTION&gt; &lt;OPTION VALUE="orange"&gt; Orange&lt;/OPTION&gt; &lt;/SELECT&gt;</pre>	Your favourite fruit: <div style="border: 1px solid #ccc; padding: 5px;"> Apple  Banana  Pineapple  Orange </div>
---	---

## Hidden Fields

- The field is not visible on the screen; The hidden value is sent to the server
- Hidden does not mean secure

<pre>Secret:&lt;BR&gt; &lt;INPUT TYPE="hidden" NAME="p_secret" VALUE="This is secret!"&gt;</pre>	Secret:
--	---------

## Reset Button

- Resets the form-data to its initial values

<pre>&lt;INPUT TYPE="reset" VALUE="Reset the form"&gt;</pre>	<input type="button" value="Reset the form"/>
--	---

## Submit Button

- submits the form-data

<pre>&lt;INPUT TYPE="submit" VALUE="Execute"&gt;</pre>	<input type="button" value="Execute"/>
--	--

## Defining a Form in HTML

```
<FORM METHOD=""> . . . </FORM>
```

- The action specifies the URL invoked when the submit button is clicked
- The method is either GET or POST
- Notes on GET: Appends form-data into the URL in name/value pairs
  - Never use GET to send sensitive data! (will be visible in the URL)
- Notes on POST: Appends form-data inside the body of the HTTP request (data is not shown in URL)

### URL of a GET submission (<FORM METHOD="GET">)

```
show_get.php?p_username=SEHH1016&p_name=Introduction+to+Internet+Technology&p_password=SCCHAN&p_sport=...
```

### URL of a POST submission (<FORM METHOD="POST">)

```
/l1_post.html
```

### Different actions in HTML Form

Submit to local program	<pre>&lt;FORM   NAME="form"   ACTION="do.php"   METHOD="POST"&gt; &lt;/FORM&gt;</pre>
Submit to a remote program	<pre>&lt;FORM NAME="form"   ACTION="http://www.server.com/do.php"   METHOD="POST"&gt; &lt;/FORM&gt;</pre>
Submit through email	<pre>&lt;FORM NAME="form"   ACTION="mailto:sc.chan@cpce-polyu.edu.hk"   METHOD="POST"&gt; &lt;/FORM&gt;</pre>

## HTML Form Exercise

Create an HTML file called **SEHH1016\_T5.html**. This file contains an HTML form using the following and a table format:

Form:

- action is set to **http://scchan.rf.gd/T5\_ex\_data.php**
- method is set to **get**

Input elements:

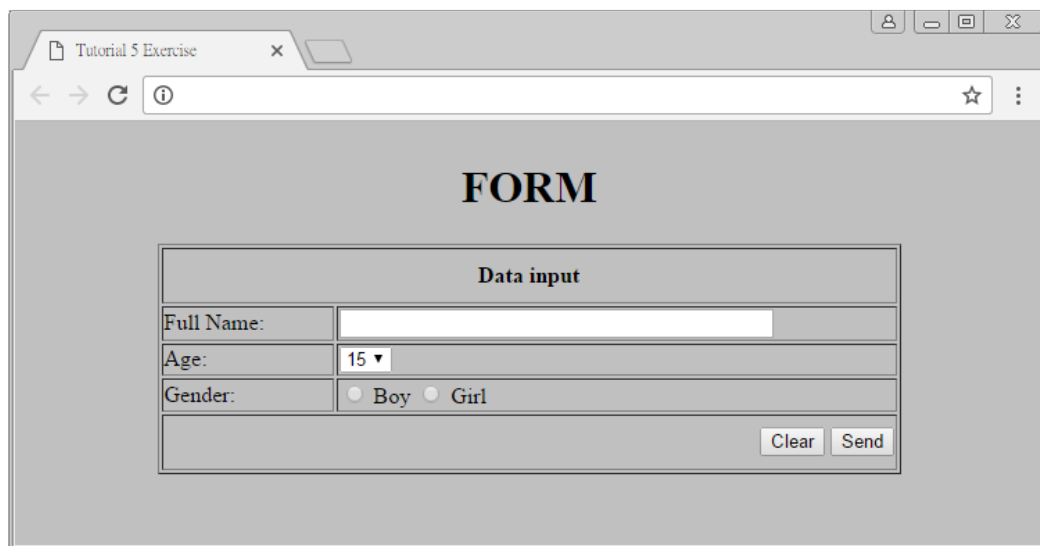
- name for Name textbox: **username**
- name for Age drop-down list (range: 15-20): **age**
- name for Gender radio buttons: **gender**; possible values are “Boy” and “Girl”
- a reset button with text “Clear”, and a submit button with “Send”.

Other requirements (**extra**):

- Table caption is “FORM” with Heading 1 formatting.
- Table inside the form. “Data Input” is heading, others are data cells.
- The cell of buttons will span across 2 columns and aligned to the right.

The HTML form is used to collect information as shown in the following figure:

- The resulting HTML should render as follows:



The screenshot shows a web browser window titled "Tutorial 5 Exercise". The main content area has a heading "FORM" in a large, bold, serif font. Below the heading is a table with a caption "Data input". The table has three rows for input fields: "Full Name:" with a text input box, "Age:" with a dropdown menu showing "15", and "Gender:" with two radio buttons labeled "Boy" and "Girl". At the bottom right of the table is a row with two buttons: "Clear" and "Send".