Web Engineering -

Lecture 3-HTML Tags

HTML <form> tag

Why we use "form" tags in HTML?

HTML <form> tag

```
Why we use "form" tags in HTML?
HTML forms are used to collect user input.
The <form> defines;
<form>
:
:
</form>
```

HTML "Post and Get" Method

2 HTTP Request Methods: GET and POST

These methods are used for a request and/or response between a client and server

- 1. **GET** Requests data from a specified resource
- 2. **POST** Submits data to be processed to a specified resource

HTML <form> tags

```
<form action ="ABC.html" method="post">
:
:
:
</form>
```

HTML <form> tags

```
<form action ="DEF.html" method="get">
:
:
:
</form>
```

HTML - GET Method

- 1. GET requests can be cached
- 2. GET requests remain in the browser history
- 3. GET requests can be bookmarked
- 4. GET requests should never be used when dealing with sensitive data
- 5. GET requests have length restrictions
- 6. GET requests should be used only to retrieve data

HTML - Post Method

- POST requests are never cached
- 2. POST requests do not remain in the browser history
- 3. POST requests cannot be bookmarked
- 4. POST requests have no restrictions on data length

HTML - Compare GET vs. POST

	GET	POST	
BACK button/ Reload	Harmless	Data will be re-submitted	
Bookmarked	Can be bookmarked	Cannot be bookmarked	
Cached	Can be Cached	Cannot be Cached	
History	Parameters remain in browser history	Parameters are not saved in browser history	
Restrictions of data Length	Yes, when sending data, the GET method adds the data to the URL; and the length of a URL is limited (maximum URL length is 2048 characters)	No restrictions	

HTML - Compare GET vs. POST

	GET	POST	
Restrictions on data type	Only ASCII characters allowed	No restrictions. Binary data is also allowed	
Security	GET is less secure compared to POST because data sent is part of the URL Never use GET when sending passwords or other sensitive information!	POST is a little safer than GET because the parameters are not stored in browser history or in web server logs	
Visibility	Data is visible to everyone in the URL	Data is not displayed in the URL	

HTML <button> tag

Definition and Usage

The <button> tag defines a clickable button.

Inside a <button> element you can put content, like text or images.

This is the difference between this element and buttons created with the <input> element.

Tip: Always specify the type attribute for a <button> element. Different browsers use different default types for the <button> element.

HTML <button> tag

<button type="button">Click Me!</button>



HTML <input> tag

- ▶ The <input> element is the most important form element.
- The <input> element has many variations, depending on the type attribute.
- Here are the types used:

Туре	Description
text	Defines normal text input
radio	Defines radio button input (for selecting one or many choices)
submit	Defines a submit button (for submitting the form)

HTML <input> tag Text

```
<form>
First name:<br>
  <input type="text" name="firstname">
  <br>
  Last name:<br>
  <input type="text" name="lastname">
  </form>
```

HTML <input> tag Text

```
<form>
 First name: <br
 <input type="text" name="firstname">
 <br/>br>
 Last name: <br>
 <input type="text" name="lastname">
</form>
                                      First name:
                                      Last name:
```

HTML <input> tag Radio button

<input type="radio"> defines a radio button

Radio buttons let a user select ONE of a limited number of choices:

```
<form>
  <input type="radio" name="fru" value="apple" checked>Apple
  <br>
    <input type="radio" name="fru" value="mango">Mango
  </form>
```

HTML <input> tag Radio button

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<form>
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  <br>
      <input type="radio" name="fru" value="mango">Mango
  </form>
```



HTML <input> tag Check Box

<input type="checkbox"> defines a Check Box

- The checked attribute is a Boolean attribute.
- When present, it specifies that an <input> element should be pre-selected (checked) when the page loads.
- The checked attribute can be used with <input type="checkbox"> and <input type="radio">.
- The checked attribute can also be set after the page load, with a JavaScript.

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Definition and Usage

The <select> element is used to create a drop-down list

The <option> tags inside the <select> element define the available options in the list

Tip: The <select> element is a form control and can be used in a form to collect user input.

```
<select>
  <option value="volvo">Volvo</option>
  <option value="saab">Saab</option>
  <option value="mercedes">Mercedes</option>
  <option value="audi">Audi</option>
  </select>
```

```
<select>
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  <option value="mercedes">Mercedes</option>
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```



Q&A
End of Lecture

Table 1: This the caption

This is the Header						
Left Navigation Bar • Link 1	Cell 1	Cell 2	Right Navigation Bar 1. Link 5			
Link 2Link 3Link 4	Cell 3	Cell 4	 2. Link 6 3. Link 7 4. Link 8 			
This is the Footer						

Table 1: This is the caption

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