Script Forms and Controls

Web Technologies

Lecture by

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```html
<!doctype html>
<html>
    <head>
        <title>
            Web Technologies
        </title>
        <style>
            p {
                color: blue;
            }
        </style>
        <script>
        console.log("client-side");
        </script>
    </head>
    <body>
        <p>
            Welcome!
        </p>
    </body>
</html>
```

What we will cover

- **A form in a web browser**
- **Controls:**
    - Text box
    - Textarea
    - Select
    - Radio
    - Checkbox
- **JavaScript methods for controls**
- **JavaScript events for controls**

A Form in a Web Browser

```
<form id="email_form" name="email_form" action="join.php" method="get">
  <label for="email_address">Email Address:</label>
  <input type="text" id="email_address" name="email_address"><br>
  <label for="first_name">First Name:</label>
  <input type="text" id="first_name" name="first_name"><br>
  <label> </label>
  <input type="submit" id="join_list" value="Join our List"><br>
</form>
```

Email Address: [   ]
First Name: [   ]

[Join our List]

Text Box, Textarea, Select Objects

HTML Attributes

- **Text Area**

<input type="text" name="name" id="name">

- **Text Area**

<textarea name="comment" id="comment"></textarea>

- **Select**

<select name="country" id="country">
  <option value="uk">UK</option>
  <option value="c">Canada</option>
</select>

JavaScript Property

- **To retrieve**

const name = $("#name").value;

const comment = $("#comment").value;

const country = $("#country").value;

- **To add**

const addName = document.getElementById("name");

addName.value = "Peter Smith";

Radio and Checkbox Objects

HTML Attributes

- **Radio**

<input type="radio" name="contact" id="email" value="email">

- **Checkbox**

<input type="checkbox" name="accept" id="accept" value="accept">

JavaScript Property

if ($("#email").checked) {

  contact = $("#email").value; }

else if (contact == "email") { /*email processing*/ }

if ($("accept").checked) { /*accept processing*/ }

Methods for Form and Control

Control

- **focus ( )**

    $("#email_address").focus();

- **blur ( )**

    $("#investment").blur();

- **select ( )**

    $("#email_address").select();

Form

- **submit ( )**

    $("form").submit();

- **reset ( )**

    $("form").reset();

Control Events

- **click**
- **focus**
- **blur**
- **dblclick**
- **change**
- **select**

```
document.addEventListener("DOMContentLoaded", () => {
    $("#investment").addEventListener
                        ("change", investmentChange);
    $("#years").addEventListener
                        ("dblclick", yearsDblclick);
};
```

Try It Yourself

In this activity, you can practice writing a script for a form using the methods and events covered in this session. So,

1. **Use the code given in slide 4 and create the HTML form.**

2. **Modify the form by adding the following controls:**
   - Textarea
   - Select
   - Radio
   - Checkbox

3. **Use at least one method and one control event that was covered in here for at least one of the listed controls.**