jQuery Data Validation

Web Technologies

Lecture by

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```
<!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

- **Form controls**
- **Control attributes**
- **jQuery selectors for forms**
- **jQuery methods for forms**
- **Validate a data pattern with Regular Expression**

Data Validation

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Form Controls

- **<input type ="email" >**
- **<Input type="url">**
- **<input type ="tel" >**
- **<input type ="number" >**
- **<input type ="range" >**
- **<input type ="date" >**
- **<input type ="time" >**

Control Attributes

- **autofocus**

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

- **placeholder**

<input type="tel" id="phone" placeholder="999-999-9999">

jQuery Selectors for Form Controls

- **Syntax $ (":selector")**

- **Selectors:**

:input	:file	:button
:text	:password	:disabled
:radio	:submit	:enabled
:checkbox	:reset	:checked
	:image	:selected

jQuery Methods for Controls

- **Syntax $ (":selector").val ()**
- **Methods**
    - val ()
    - val (value)
        Example: $ (":text").val (new value)

jQuery method for trimming an entry

- **tirm ()**

    Example: const userInput = $ (":text").val ();

    const trimValue = userInput.trim ();

jQuery Methods for Forms

- **Event handlers**
  - focus(handler)
  - blur(handler)
  - change(handler)
  - select(handler)
  - submit(handler)

- **For triggering events**
  - focus()
  - blur()
  - change()
  - select()
  - submit()

Change Method

```html
<select id="choose">
    <option value=""></option>
    <option value="red">Red</option>
    <option value="black">Black</option>
    <option value="grey">Grey</option>
</select>
<p id="display"> The selected colour is:</p>
<span id="place"> No Colour selected</span>
```

```
Red ▽

The selected colour is:

red
```

```javascript
$(document).ready(() =>{
    $("#choose").change(() => {
        const chosenColour =$("#choose").val();
        $("#place").text(chosenColour);
        $("#display").css("color", chosenColour);
```

Regular Expression

- **Syntax**

const regPattern = */pattern/*;

- **Pattern**
  1. /^[a-z]+$/   Example: abcdefghijklmnopqrstuvwxyz
  2. /^[A-Z]+$/   Example: ABCDEFGHIJKLMNOPQRSTUVWXYZ
  3. /^\d+$/   Example: 0123456789
  4. /^\d{3}-\d{3}-\d{4}$/   Example: 123-456-7890
  5. /\b[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}\b/
       Example: name@org.com

Try It Yourself

In this activity, you can practice using the change () method. So

1. Use the code inside slide 10

2. Make sure that you have provided the link to the latest jQuery library. An example of this is shown here:

```
<script
        src="http://code.jquery.com/jquery-3.4.1.min.js">
</script>
```