

Data Validation Web Application

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

- **Data Validation Web Application**
 - HTML
 - CSS
 - JavaScript

The Web Application in a Browser

Membership Form

Registration Information

Email Address: *

Password: *

Verify Password: *

Member Information

Membership type: ☒ Individual ☐ Corporate

Company Name:

First Name: *

Last Name: *

Phone Number: *

Submit Your Membership

Second page

Register for an Account

Your account registration has been submitted with the following information:

email	Mary@city.ac.uk
password	hellohello
verify	hellohello
type	corporate
company_name	City University
first_name	Mary
last_name	Delamater
phone	123-123-1234
submit	Submit

If No User Entry

Membership Form

Registration Information

Email Address: This field is required.

Password: Must be 6 or more characters.

Verify Password: This field is required.

Member Information

Membership type: ☐ Individual ☒ Corporate

Company Name: This field is required.

First Name: This field is required.

Last Name: This field is required.

Phone Number: This field is required.

Submit Your Membership

Invalid Data Format

Membership Form

Registration Information

Email Address: Must be a valid email address.
Password: Must be 6 or more characters.
Verify Password: Must match first password entry.

Member Information

Membership type: ☐ Individual ☒ Corporate
Company Name:
First Name:
Last Name:
Phone Number: Use 999-999-9999 format.

Submit Your Membership

HTML 1

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Membership Signup</title>
  <link rel="stylesheet" href="member.css">
</head>
<body>
<main> ...
</main>
<script src="http://code.jquery.com/jquery-3.4.1.min.js"></script>
<script src="member.js"></script>
</body>
</html>
```


HTML 2

```
<main>
  <h1>Membership Form</h1>
  <form action="register.html" method="get"
    name="member_form" id="member_form">
    <fieldset> ...
  </fieldset>
  <fieldset> ...
  </fieldset>
  <fieldset id="buttons"> ...
  </fieldset>
</form>
</main>
```

HTML 3

```
<fieldset>
  <legend>Registration Information</legend>
  <div>
    <label for="email">Email Address:</label>
    <input type="text" id="email" name="email">
    <span>*</span>
  </div>
  <div> ...
</div>
  <div> ...
</div>
</fieldset>
```

Form Controls

- `<input type="text" id="email" name="email">`
- `<input type="password" id="password" name="password" placeholder="At least 6 characters" >`
- `<input type="password" id="verify" name="verify">`
- `<input type="radio" name="type" id="individual" value="individual" checked>Individual`
`<input type="radio" name="type" id="corporate" value="corporate">Corporate`
- `<input type="text" id="company_name" name="company_name" disabled>`

CSS 1

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
    background-color: □ white;  
    margin: 0 auto;  
    width: 700px;  
    padding: 10px 20px;  
    border: 3px solid ■ blue;  
}  
  
label {  
    float: left;  
    width: 10em;  
    text-align: right;  
}
```

Membership Form

Registration Information

Email Address:

Password:

Verify Password:

CSS 2

```
input {  
  width: 14em;  
  margin-left: 1em;  
  margin-bottom: .5em;  
}  
#buttons input {  
  width: 7em;  
  margin-right: 0;  
}  
fieldset {  
  margin-top: 1em;  
  margin-bottom: 1em;  
  padding-top: .5em;  
}
```

```
legend {  
  color: ■ blue;  
  font-weight: bold;  
  font-size: 85%;  
  margin-bottom: .5em;  
}  
span {  
  color: ■ red;  
  font-size: 87.5%;  
  margin-left: .5em;  
}  
#individual, #corporate {  
  width: 1em;  
  margin-bottom: .9em;  
}
```

<input type="text"/>	This field is required.
<input type="text"/>	Must be 6 or more characters.
<input type="text"/>	This field is required.

Membership type: ☐ Individual ☒ Corporate

CSS 3

```
table {  
    border-collapse: collapse;  
    width: 100%;  
}  
th, td {  
    padding: 10px;  
    text-align: left;  
}  
tr:nth-child(even) {  
    background-color: #f2f2f2;  
}
```

Register for an Account

Your account registration has been submitted with the following information:

email	Mary@city.ac.uk
password	hellohello
verify	hellohello
type	corporate
company_name	City University
first_name	Mary

JavaScript and jQuery

```
"use strict";
$(document).ready( () => {
    $("#email").focus();
    $("#radio").change( () => { ...
});
    $("#member_form").submit( event => { ...
});
});
```

Try It Yourself

In this activity, you can practice creating the HTML, CSS and JavaScript files for the Data Validation Web Application using the provided code here. So,

1. Use code inside slides 8 to 15 to create these files.

Note, that the code provided is incomplete, as we will be completing the JavaScript code for this application later.