

# STEM Digital Academy

School of Science & Technology

# Data Validation Web Application

**Web Technologies** 



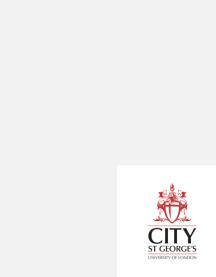
Lecture by
Dr Elahe Kani-Zabihi

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

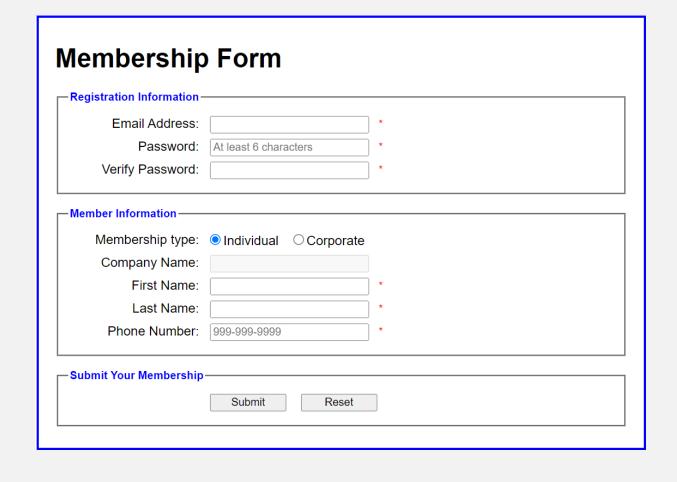


#### What we will cover

- Data Validation Web Application
  - HTML
  - CSS
  - JavaScript



## The Web Application in a Browser





# **Second page**

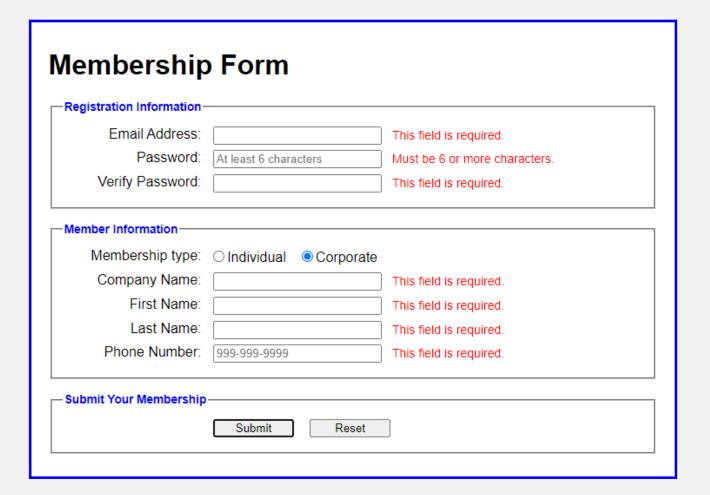
#### Register for an Account

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

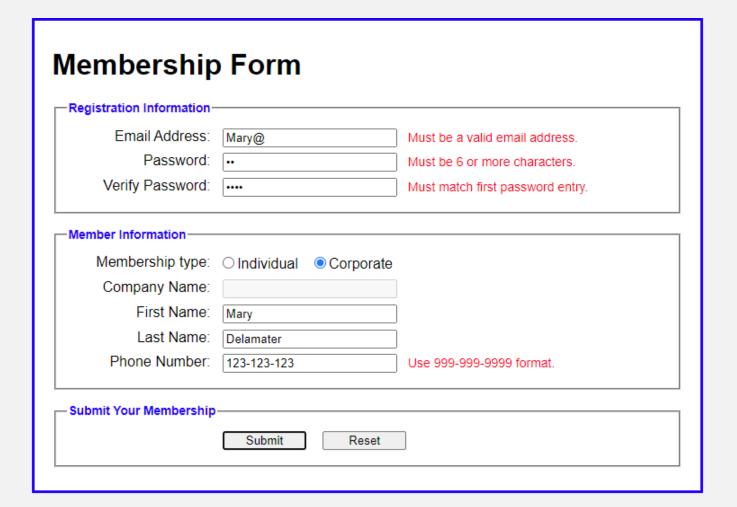


# If No User Entry





#### **Invalid Data Format**





#### 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"</pre>
        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<sub>1</sub>

```
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;
```

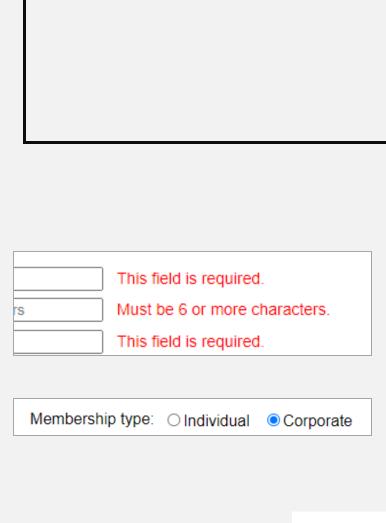
# Membership Form Registration Information Email Address: Password: At least 6 characters Verify Password:



#### 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;
```





#### CSS 3

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

#### 



### 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.

