CITY ST GEORGE'S UNIVERSITY OF LONDON

STEM Digital Academy

School of Science & Technology

# Data Processing

## 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

- Query Parameter
- The JavaScript code for the register.html
- AJAX request

# Query Parameter

- **Get Method**
  - <form action="register.html" method="get“ name="member_form" id="member_form">
- **Example**
  - <input type="text" id=“fname" name=“fname">
  - User entry: Mary Delamater
  - Query Parameter:

    register.html?fname=**Mary**20%**Delamater**&….

# Register.html

## 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 |

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# HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Account Registration</title>
    <link rel="stylesheet" href="member.css">
    <script>
    const decode = text => {···

    const display_data = () => {···
    </script>
</head>
<body>
    <section id="content">
        <h1>Register for an Account</h1>
        <p>Your account registration has been submitted with the following
        information:</p>
        <script type="text/javascript">display_data();</script>
    </section>
</body>
</html>
```

# Decode

```
const decode = text => {
    text = text.replace(/\+/g, " ");
    text = text.replace(/%[a-fA-F0-9]{2}/g,
        text => String.fromCharCode( "0x" + text.substr(1,2))
    );
    return text;
}
```

# Display_data

```
const display_data = () => {
    const url_parts = window.location.toString().split("?");
    if ( url_parts.length != 2 ) return;

    const fields = url_parts[1].split("&");
```

# To Add Table

```
if ( fields.length == 0 ) {
        document.write("<p>No data was submitted.</p>");
    } else {
        document.write("<table>");
        let field_parts;
        for ( var i in fields ) {
            field_parts = fields[i].split("=");
            field_parts[0] = decode( field_parts[0] );
            field_parts[1] = decode( field_parts[1] );
```

# To Add Data For Table

```
document.write("<tr>");
document.write("<th>" + field_parts[0] + "</th>");
document.write("<td>" + field_parts[1] + "</td>");
document.write("</tr>");
        }
document.write("</table>");
```

# Data Submission

- **GET**
  - <form action="register.html" method="get" name="member_form" id="member_form">
- **POST**
  - <form action="resubmit.php" method="post" name="register_form" id="register_form">
  - AJAX requests

# AJAX Request

```
$(document).ready(function(){
....
$.ajax({
        url: the url,
        method: "POST",
        data: formData,
        success: function(response) {// successful response },
        error: function(xhr, status, error) {// the error }
});
});
```

# Try It Yourself

**In this activity, you can practice creating the second page for the Data Validation Web Application. On this page, you use the JavaScript code to process the data and display it on the page. So,**

1. **Use the code inside slides 6 to 10 to create the register.html page**