

STEM Digital Academy

School of Science & Technology

The Register Application Example

Web Technologies



Lecture by
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```
<!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

- Register application
 - HTML
 - JavaScript



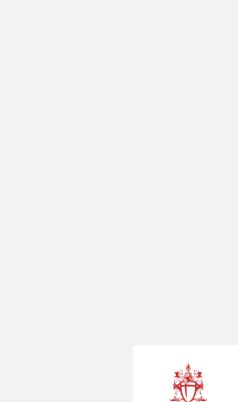
The Register Application

Register for	an Account
E-Mail:	*
Mobile Phone:	*
Country:	Select a country *
Contact me by:	● Text ○ Email ○ Mobile phone ○ Don't contact me
Terms of Service:	□ I accept *
Comments:	*
	Register Reset



Error Messages

I address. e phone number. ery. e terms of service. ent.
*
*
Select a country *
● Text ○ Email ○ Mobile phone ○ Don't contact me
□ I accept *
*



HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Registration</title>
    <link rel="stylesheet" href="register.css">
</head>
<body>
    <main>
        <h1>Register for an Account</h1>
        <form action="confirm.html" method="get">...
        </form>
    </main>
   <script src="register.js"></script>
</body>
</html>
```



Controls 1

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



Controls 2

- <input type="radio" name="contact" id="text" value="text" checked>Text
- <input type="checkbox" name="terms" id="terms" value="yes">I accept
- <textarea name="comments" id="comments" row="5 cols="40"></textarea>
- <input type="button" id="register" value="Register">
- <input type="button" id="reset_form" value="Reset">



Event Handler

```
"use strict";
const $ = selector => document.querySelector(selector);
const displayErrorMsgs = msgs => { ...
const processEntries = () => { ···
};
const resetForm = () => { ···
};
document.addEventListener("DOMContentLoaded", () => {
    $("#register").addEventListener("click", processEntries);
    $("#reset_form").addEventListener("click", resetForm);
    $("#email address").focus();
});
```



Display Error Messages

```
const displayErrorMsgs = msgs => {
    const ul = document.createElement("ul");
    ul.classList.add("messages");
    for (let msg of msgs) {
        const li = document.createElement("li");
        const text = document.createTextNode(msg);
        li.appendChild(text);
        ul.appendChild(li);
    const node = $("ul");
    if (node == null) {
        const form = $("form");
        form.parentNode.insertBefore(ul, form);
     else {
        node.parentNode.replaceChild(ul, node);
```

Register for an Account

- Please enter an email address.
- Please enter a mobile phone number.
- Please select a country.
- You must agree to the terms of service.
- Please enter a comment.

E-Mail:			*
Mobile Phone:			*
Country:	Select a country	~	*



Register Button

```
const processEntries = () => {
    const email = $("#email_address");
    const phone = $("#phone");
    const country = $("#country");
    const terms = $("#terms");
    const comments = $("#comments");
    const msgs = [];
   if (email.value == "") { ···
    if (phone.value == "") { ...
    if (country.value == "") { ...
    if (terms.checked == false) { ...
    if (comments.value == "") { ...
    if (msgs.length == 0) { // no error messages...
    } else { ···
```



Value Check

```
if (email.value == "") {
   msgs[msgs.length] = "Please enter an email address.";}
if (phone.value == "") {
   msgs[msgs.length] = "Please enter a mobile phone number."; }
if (country.value == "") {
   msgs[msgs.length] = "Please select a country.";}
if (terms.checked == false) {
   msgs[msgs.length] = "You must agree to the terms of service."; }
if (comments.value == "") {
   msgs[msgs.length] = "Please enter a comment.";}
if (msgs.length == 0) { // no error messages
   $("form").submit();
} else {
    displayErrorMsgs(msgs);}
```



Reset Button

```
const resetForm = () => {
    $("form").reset();
    $("ul").remove();
    $("#email_address").focus();
};
document.addEventListener("DOMContentLoaded", () => {
    $("#register").addEventListener("click", processEntries);
    $("#reset_form").addEventListener("click", resetForm);
    $("#email_address").focus();
});
```



Try It Yourself

In this activity, you can practice creating the register web application. So,

- 1. Use the codes in slides 4 to 13 to create HTML and JavaScript codes
- 2. Use the CSS external file provided as part of the teaching materials for this session.

