CS1116/CS5018

Web Development 2

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A web page that contains a form

Handling a form (1) Hugh types/clicks URL for challenge.html (2) browser requests challenge.html (3) server sends back challenge.html and presses submit (5) browser requests response.py?firstname=Hugh&surname=Jeegoh (6) server executes response.py (7) server sends back the output web client

When the user presses submit...

- When the user presses the submit button, the browser arranges the data in name/value pairs
- E.g. the user types Hugh and Jeegoh into the form
 - o The browser arranges the data as follows:

firstname=Hugh&surname=Jeegoh

...and behind the scenes

- The browser also encodes the data using standard URL encoding:
- This replaces spaces, slashes and other characters that are not allowed in URLs by their hexadecimal equivalents
- E.g. spaces are replaced by %20 (which may display as '+'); slashes by %2F
- E.g. if the user types Ann and O Domini into the form, the browser arranges and encodes the data as follows:

firstname=Ann&surname=0%20Domini

And then...

- The browser then creates an HTTP request
- The command comes from the form's method attribute
- The URL comes from the form's action attribute
- If the method="get", the data is added to the end of the URL after a question mark:

GET response.py?firstname=Hugh&surname=Jeegoh

The server-side program, response.py

Class exercise

I have written a web page that contains a form:

- Your task is to write a program that takes the user's data and outputs a web page that contains an HTML table that contains the user's input data and its translation into Morse code
- FYI: 'A' is '.-', 'B' is '-...', 'C' is '-.-.' and so on