CS472 WAP

Intro to Forms

Forms

Connecting with the Source

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Main Point Preview

- An HTML form allows the user to send data (input parameters) to the server. Forms are created with the <form> tag, and can be submitted with either an HTTP GET or POST method.
- *HTTP is a protocol for contacting the server and thereby gaining access to all the resources on the server. Similarly, the TM technique is a protocol for contacting the Self and thereby gaining access to all the resources of pure consciousness.*

Request Command

- 3 ways to send a request from a browser tab to the server:
  - Type url (GET)
  - Form (GET, POST.. etc)
  - XHR Request (GET, POST.. etc)
- Request methods:
  - GET: only has header (parameter are sent in the header, NO body)
  - POST: has header and body ([parameters are sent in the body)

Query strings and parameters

- **Query string**: a set of parameters passed from a browser to a web server. Often passed by placing name/value pairs at the end of a URL.

- Below, parameter **username** has value “tina”, and **sid** has value “123456”

http://mum.edu/login.jsp?username=tina&sid=123456
http://www.google.com/search?q=Obama
https://www.google.com/?q=HTML+Form

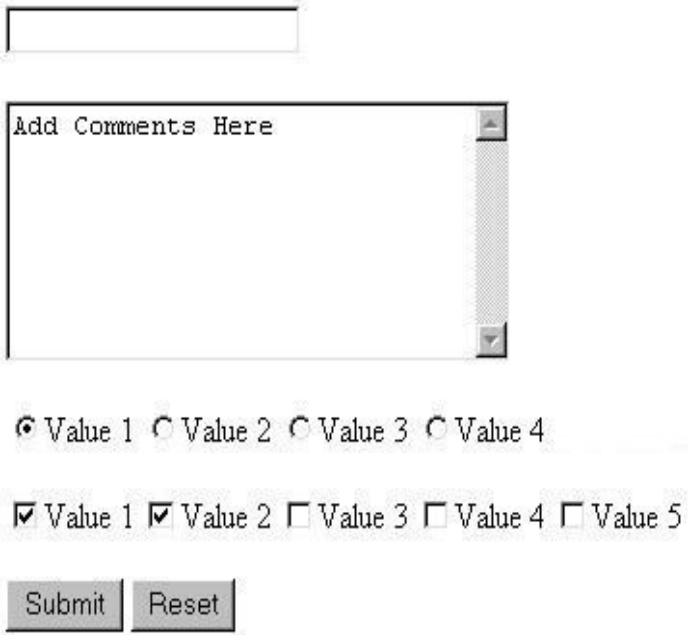
HTTP **GET** vs. **POST** requests

- **`GET`** : asks a server for a page or data
  - if the request has parameters, they are sent in the URL as a query string (request header)
  - URLs cannot contain special characters without encoding
  - private data in a URL can be seen or modified by users

- **`POST`** : submits data to a web server (to be saved in DB or file or updates state in server application)
  - parameters are embedded in the HTTP request body, not the URL

HTML forms

- Form: a group of UI controls that accepts information from the user and sends the information to a web server
- The information is sent to the server as a query string for a get request
  - sent in request body for post request



HTML form: **<form>**

The **<form>** tag is used to create an HTML form for user input.

The **<form>** element can contain one or more of the following form elements:

<input>, **<textarea>**, **<button>**, **<select>**, **<option>**, **<optgroup>**, **<fieldset>**, **<label>**, <textarea>, <datalist>, <output>

```
<form action="sales.html"  method ="get" novalidate autocomplete="on">
  Form controls
</form>
```

Form Attributes

- **action** destination URL
- **method** get, post
- **novalidate** (HTML5) specifies that the form should not be validated when submitted
- **autocomplete** (HTML5) on, off

Form Example

```
<form action="http://www.google.com/search">
   <div> Let's search Google <input name="q" />
   <input type="submit" /> </div>
</form>
```

See example: lecture4_examples/form.html

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