PHP

Setting up a server for PHP Writing PHP pages Overcoming statelessness Difficulties of Web Engineering

Set up your own server...

- Million ways to do it...
- Download separately from...
 - Apache http://httpd.apache.org
 - MySQL <u>http://www.mysql.com</u>
 - PHP www.php.net
 - heaps of useful documentation at this site
 - phpMyAdmin <u>http://www.phpmyadmin.net</u>
 - Then some configuring to do web helps, e.g. <u>www.webmasterstop.com/48-0.html</u>
- Or one stop shop... e.g.
 - phpdev http://www.firepages.com.au
 - AppServ <u>http://www.appservnetwork.com</u>

Personalise the pages...

- How about: each page in the site displays
 - a login name
 - the length of the visit
- Use cookies to store this information
 - Cookie
 - text file, up to 4000 characters
 - stored on CLIENT
 - sent along with every HTTP request to the domain/site associated with the cookie

Setting a cookie

- PHP function setcookie, taking up to 6 args
 - name string
 - value string
 - expiry seconds since 1970
 - last three for security/availability of cookies
- This must happen before *any* HTML code on the page appears
 - cookie details are part of the header information

Panic over cookies...

- Viewed as the plague...
 - contain viruses
 - somehow pick up all our details
- This is not true in general
 - and many e-commerce sites depend on them, as we shall see...
 - but some sites do use them cleverly to track user behaviour
 - see in particular DoubleClick's technique

Personalised info on client or server?

- Can use *sessions* for server-side storage...
- In the header, before any HTML, must place
 - session_start()
- Other useful functions
 - session_register("variable_name")
 - session_is_registered("variable_name")

How are sessions recognised?

- A cookie can be used PHPSESSID
 - sent with every request to the web site
 - contains an identifier for this session, created on the first call to session_start
- On the server
 - session variables are stored in a file named using the session id contained in the cookie
- Alternatively, this session id can be passed from page to page in the URL

Security implications?

Difficulties of web engineering

- Short development life-cycle times
 - typically up to 3 months only
- Increase delivery of bespoke solutions
 - traditionally, systems developed away from the data
 - web systems develop in tandem with the data the operate over
 - consider the example we just constructed

- Multidisciplinary development teams
 - Domain experts
 - Business experts
 - Creative designers
 - Software engineers
 - Team leaders
- Requirements analysis and evaluation
 - shifting user base
 - end users are customers, not employees