

HW4 – CGI Program

- can do in C, perl (or anything else we have access to).
- Service provided is a *composite web page manager*.
 - another money-making scheme from DLH enterprises!
- Need to use cookies!

Composite Web Pages

- A composite web page that is just a collection of other web pages.
- Use frames – each frame holds a web page.
- Realistic applications: too many to list.
- IPO potential: unlimited...

Services required

- username based login (provide sessions)
- create composite web page by filling out a form:
 - name of the composite page
 - list of URLs
- Get list of composite web pages
- Get a composite web page.

Demo available

- minimal – try to do more!
- Some ideas:
 - allow user to control placement of frames (rows vs. columns vs grid, etc).
 - Include a frame that is a control panel.
 - Force composite web pages to be displayed in new browser window.

What you need to know

- how to write a CGI program.
- all about HTML frames.
- how to create a form.
- JavaScript field validation.
- how to create/recognize an HTTP cookie.
- how to start an S Corporation.

CGI and C

- Simple library is available that can help:
 - get the request
 - split in to *fields*
 - URLdecoding
 - parse cookie headers
- Get the files `cgilib.c`, `cgilib.h`, `cookies.c`, `cookies.h` from pizzacookie example CGI.
- Look at pizzacookie for example usage.

Submission

- Send all your source code.
- Send a link to running CGI system.
- Sign and return "*Netprog Confidentiality Agreement*" - this means you can't steal this great idea. Disclaimer: this is a joke!
You don't have to sign anything!
There is no such agreement!
