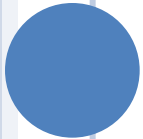


Homework 01

Announce: 20090325

Due: 20090401



Requirements

- Use Perl with CPAN modules to build a web proxy with record feature
- Use the logs your recorded to turn web applications to CIL application
 - With batch and addition features!
- Example
 - Dictionary/Wiki lookup
 - Search on multiple search engines
 - Album grabber
 - Auto register
 - etc.

Proxy

- HTTP::Proxy
 - /usr/ports/www/p5-HTTP-Proxy
 - <http://search.cpan.org/dist/HTTP-Proxy/>
- HTTP::Recorder
 - /usr/ports/www/p5-HTTP-Recorder
 - <http://search.cpan.org/dist/HTTP-Recorder/>
 - <http://http-recorder/>

Example Code

```
use HTTP::Proxy;  
use HTTP::Recorder;  
  
my $proxy = HTTP::Proxy->new(  
    port => 3128,  
    host => undef);  
  
my $agent = new HTTP::Recorder;  
$agent->file("log");  
  
$proxy->agent( $agent );  
$proxy->start();
```

Set Proxy

連線設定

設定存取網路的代理伺服器 (Proxy)

不使用 Proxy

自動偵測此網路的 Proxy 設定 (W)

手動設定 Proxy (M):

HTTP Proxy: lucky7.cs.nctu.edu.tw Port: 3128

所有通訊協定都使用此 Proxy 代理伺服器

SSL Proxy: Port: 0

FTP Proxy: Port: 0

Gopher Proxy: Port: 0

SOCKS 主機: Port: 0

SOCKS v4 SOCKS v5

直接連線 (N): localhost, 127.0.0.1
範例: .mozilla.org, .net.tw, 192.168.1.0/24

Proxy 自動設定網址 (URL): (若造成無法連線請改用手動設定) (A)

重新載入 (E)

確定 取消 說明

Get code!

```
$agent->get('http://www.google.com/dictionary');
```

```
$agent->form_name('f');
```

```
$agent->field('q', 'Serendipity');
```

```
$agent->field('langpair', 'en|zh-TW');
```

```
$agent->click();
```

Bot

- WWW::Mechanize
 - /usr/ports/www/p5-WWW-Mechanize
 - <http://search.cpan.org/dist/WWW-Mechanize/>

Example Code

```
use WWW::Mechanize;  
my $agent = WWW::Mechanize->new();  
  
#  
# Paste and modify what you recorded here  
#  
# $agent-> ...  
# ...  
#
```


Other CPAN modules

○ User Interface

- devel/p5-Curses
 - devel/p5-Curses-UI
 - devel/p5-Curses-*
- devel/p5-Dialog

○ Parallelization

- www/p5-ParallelUA

○ Cookies

- www/p5-libwww
 - my \$cookie = HTTP::Cookies->new();
 - my \$m = WWW::Mechanize->new(
cookie_jar => \$cookie);

FAQ

- “Parsing of undecoded UTF-8 will give garbage when decoding entities at `/usr/local/lib/perl5/site_perl/5.8.9/mach/HTML/PullParser.pm` line 81.”
 - use utf8;
 - Set all your environment to UTF-8
- HTTP::Recorder doesn't provide enough information
 - `http://search.cpan.org/dist/WWW-Mechanize/lib/WWW/Mechanize.pm`
 - LINK METHODS
 - IMAGE METHODS
 - `find_*`()