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Client Websockets based CSP

The Caché / Ensemble standard distribution contains in namespace SAMPLES

a nice example of a CSP page consuming WebService as a Client.

I have modified it not only to display the replies but to feed them back into a Global.

I used the classic Hyperevent to achieve this. The replies end up as a log in global^WSREPLY.

When there is no input anymore the page closes and goes away.

There are 2 versions with visible and hidden display during operation.

dc.WSCSP.reverseVerbose.cls and dc.WSCSP.reverseHidden.cls

The message to send is simply passed as a hash after the CSPURL. (Mind URL encoding!)

You can launch the page using a command pipe or \$zf(-1,...) or similar for newer versions directly out of your application or from the command line.

```
/// find your browser location
set browser="" "C:\Program Files (x86)\Google\Chrome\Application\chrome.exe" " "
/// don't forget the # at the end
set page="http://localhost:57772/csp/"_$namespace_"/dc.WSCSP.reverseVerbose.cls#"
/// whatever you send to the server
set msg="hello ALL"
/// a CPIPE device
set dev="|CPIPE|22"
```

```
// either
do $zf(-1,browserpagemsg)
```

```
// or
open dev:browserpagemsg:0 write $t close dev
```

and what you get on server looks like this:

```
^WSREPLY(34)=$lb("2019-02-08 18:03:11","Welcome to Cache WebSocket. NameSpace: SAMPLES")
^WSREPLY(35)=$lb("2019-02-08 18:03:11","'hello ALL' (length=9) recieved on 08 Feb 2019 at 06:03:11PM NameSpace=SAMPLES")
^WSREPLY(36)=$lb("2019-02-08 18:03:21","Timeout after 10 seconds occurred on 08 Feb 2019 at 06:03:21PM")
^WSREPLY(37)=$lb("2019-02-08 18:03:31","Timeout after 10 seconds occurred on 08 Feb 2019 at 06:03:31PM")
^WSREPLY(38)=$lb("2019-02-08 18:03:41","Timeout after 10 seconds occurred on 08 Feb 2019 at 06:03:41PM")
^WSREPLY(39)=$lb("2019-02-08 18:03:41","exit")
```

This is just a starting point to be adapted to your individual needs.

With Docker it might be hard to start a browser. ZPM is preferred.

[GitHub](#)

[#CSP](#) [#ObjectScript](#) [#Cache](#) [#InterSystems](#) [IRIS](#)

Source URL: <https://community.intersystems.com/post/client-websockets-based-csp>