PluginCasperJS

New to Tiki17. This new wiki plugin allows to use "CasperJS" in Tiki, which is a navigation scripting & testing utility for PhantomJS and SlimerJS (still experimental). It eases the process of defining a full navigation scenario and provides useful high-level functions, methods & syntactic sugar for doing common tasks. See more information at PhantomJS and CasperJS

Parameters

Enable running CasperJS scripts from this Tiki site.

Introduced in Tiki 17.

Go to the source code

Preferences required: wikiplugin_casperjs

Parameters
(body of plugin) - text
no parameters

How to use the code

- Install Package (jerome-breton/casperjs-installer)
- Enable casper (pref wikiplugin_casperjs)
- Create a tiki page with the following content:

```
{CASPERJS()} {SOURCE()} var casper = require('casper').create(); var links; function getLinks() { // Scrape the links
from top-right nav of the website var links = document.querySelectorAll('ul.navigation li a'); return
Array.prototype.map.call(links, function (e) { return e.getAttribute('href') }); } // Opens casperjs homepage
casper.start('http://casperjs.org/'); casper.then(function () { links = this.evaluate(getLinks); tikiBridge.add('links',
links); }); {SOURCE} {CASPERJS}
```

- Run it

What works

Currently, it runs casperjs, and display back to the user:

- The (full) script that was run
- The output of the command line
- The results from the casperjs execution, using TikiBridge (is injected into the CasperJS script as a easy way to send results back to tiki).

How does the TikiBridge works:

- Before running the script it prefix and postfix the CasperJS script with some JS code (the TikiBridge)
- You can send variables back to Tiki by calling `TikiBridge.add('variable_name', variable)`
- At the end of the script (is appended) a call to `TikiBridge.done` that will format the variables to be sent back to tiki.

Next Steps

- Discuss specific implementations to see how to use this data and what is needed to make it useful to a tiki instance.
- Make some profiles

Examples

Taking Screenshots with CasperJS

In a Tiki Page, use the following code:

{CASPERJS()} {SOURCE()} var casper = require('casper').create(); casper.start('https://dev.tiki.org/Development', function() { casper.capture('screenshots/tiki_dev.png'); this.echo('File saved in TIKI_ROOT/screenshots/tiki_dev.png') }); casper.run(); {SOURCE} {CASPERJS}

Click on Execute CasperJS script and the screenshoot will be stored in "TIKI_ROOT/screenshots", with "tiki_dev.png" filename

Output

```
Console Output
$ /var/www/localhost/bin/casperjs '/var/tmp/casperjs-script-asC4OW'
File saved in TIKI_ROOT/screenshots/tiki_dev.png
```

Click to expand

Fetch page Titles with CasperJS

In a Tiki Page, use the following code.

{CASPERJS()} {SOURCE()} var casper = require('casper').create(); casper.start('https://tiki.org/HomePage', function()
{ this.echo('https://tiki.org/HomePage page title:' + this.getTitle()); });
casper.thenOpen('https://dev.tiki.org/Development', function() { this.echo('https://dev.tiki.org/Development page
title:' + this.getTitle()); }); casper.run(); {SOURCE} {CASPERJS}

Output

```
Console Output
$ /var/www/localhost/bin/casperjs '/var/tmp/casperjs-script-SDjvOI'
https://tiki.org/HomePage⇱ page title:HomePage | Tiki Wiki CMS Groupware :: Community
https://dev.tiki.org/Development⇱ page title:Development | Tiki Wiki CMS Groupware :: Development
```

Click to expand

Scrape Google and get results Title Tags with CasperJS

In a Tiki Page, use the following code:

```
{CASPERJS()} {SOURCE()} var titleTags = []; var casper = require('casper').create(); function getLinks() { var titleTags = document.querySelectorAll('h3.r a'); return Array.prototype.map.call(titleTags, function(e) { return e.innerText; }); } // Set user-agent to render page like chrome casper.userAgent('Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36'); casper.start('http://google.com/', function() { // Wait for the page to be loaded this.waitForSelector('form[action="/search"]'); }); casper.then(function() { // search for 'tikiwiki groupware' from google this.fill('form[action="/search"]', { q: 'tikiwiki groupware' }, true); }); casper.then(function() { // aggregate results for the 'tikiwiki groupware' search titleTags = this.evaluate(getLinks); }); casper.run(function() { this.echo(titleTags.length + ' Title Tags found:'); this.echo(' - ' + titleTags.join('\n - ')).exit(); }); {SOURCE} {CASPERJS}
```

Output

```
Console Output
$ /var/www/localhost/bin/casperjs '/var/tmp/casperjs-script-twoqla'
6 Title Tags found:
 - Demo
 - Introduction
 - Download
 - Installation
 - Documentation
 - Features
```

Click to expand