## **Proof of Concept**

This is a basic working version of the tool that I've wanted to have for the last couple of years: have a student drop a Git commit on to it and it renders out the relevant source code (not just the code changed in the commit, but all the code in the project affected by the commit). Hopefully this gets me closer to being able to use <a href="SpeedGrader">SpeedGrader</a> in Canvas to mark up student code that has been committed to GitHub!

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12:24 am, Sunday, October 11, 2015

## / OAuthPest.php

## / common.inc.php

#### / composer.json

# / index.php

```
1 <?php
2
3 header('Location: presenter.php');
4
5 ?>
```

#### / presenter.php

```
1 <?php
  3 require_once('common.inc.php');
  5 define('STEP_COMMIT', 1);
6 define('STEP_FILES', 2);
7 define('STEP_DISPLAY', 3);
  9 function isInvisible($path) {
10
                         return empty($_REQUEST['ignore_invisible']) || ($_REQUEST['ignore_invisible'] && !preq_match('%^(\..*)|(.*\)
11 }
12
13 function isFiltered($filename) {
14     return empty($_REQUEST['enable_filter']) || ($_REQUEST['enable_filter'] && preq_match("%{$_REQUEST['regex_f]}) || ($_REQUEST['enable_filter'] && preq_match("%{$_REQUEST['regex_f]}) || ($_REQUEST['enable_filter'] && preq_match("%{$_REQUEST['enable_filter']}) || ($_REQUEST['enable_filter'] && preq_match("%{$_R
15 }
17 $step = (empty($_REQUEST['step']) ? STEP_COMMIT : $_REQUEST['step']);
18
19 switch($step) {
20
                         case STEP DISPLAY:
21
23
                                             $commit = json_decode(
                                                                 $github->get($_REQUEST['commit']),
24
2.5
26
                                             $smarty->assign('commit', $commit);
29
30
                                            foreach ($ REQUEST['files'] as $path => $url) {
    $blob = json_decode($github->get($url), true);
    $geshi = new GeSHi(base64_decode($blob['content']), preq_replace('/^.*\.(\w+)$/', '$1', $pa
31
32
33
                                                                 $geshi->set_header_type(GESHI_HEADER_PRE_TABLE);
35
                                                                 $geshi->enable_line_numbers(GESHI_FANCY_LINE_NUMBERS);
36
                                                                $files[$path] = array(
  'filename' => basename($path),
  'path' => dirname($path),
37
38
39
                                                                                     'content' => $geshi->parse code()
40
42
43
                                            $smarty->assign('files', $files);
$smarty->display('display.tpl');
44
45
46
48
                         case STEP FILES:
49
50
                                              /* get the commit information */
51
52
                                             $commit = json decode(
                                                                 $github->get(
                                                                                                        '%^https://github.com/(.*)/commit/(.*)$%',
55
                                                                                                       'repos/$1/commits/$2',
$_REQUEST['commit_url']
56
57
58
                                                                                    )
                                                                 true
61
62
                                              /* get the commit tree */
63
                                             $commitTree = json decode(
64
                                                                 $github->get(
65
67
                                                                                                        '%^https://github.com/(.*)/commit/(.*)$%',
68
                                                                                                        'repos/$1/git/trees/$2'
69
                                                                                                        $_REQUEST['commit_url']
70
71
                                                                                   array(
                                                                                                        'recursive' => true
73
74
75
                                                                 true
76
                                             );
                                              /* make a list of changed subdirectories of the root (i.e. Eclipse projects) */
                                             foreach ($commit['files'] as $file) {
80
```

```
if (isInvisible($file['filename'])) {
    81
                                                                                                                                                                         if(isFiltered(basename($file['filename']))) {
    $parts = explode('/', $file['filename']);
    if (!in array($parts[0], $changes)) {
        $changes[] = $parts[0];
}
    82
    83
    84
     85
    86
    87
                                                                                                                                                                         }
    88
    89
                                                                                           }
    90
    91
                                                                                              /* make a list of viewable files in the commit tree */
                                                                                             $tree = array();
                                                                                            $currentDir = '0';
    93
                                                                                            foreach ($commitTree['tree'] as $leaf) {
    if (isInvisible($leaf['path'])) {
    94
    95
                                                                                                                                                                       nvisible($leaf('path'])) {
   if(isFiltered(basename($leaf['path']))) {
        $parts = explode('/', dirname($leaf['path']));
        $leaf['changed'] = in array($parts[0], $changes);
        $leaf['filename'] = basename($leaf['path']);
        $leaf['path_parts'] = $parts;
        $tree[$leaf['path']] = $leaf;
}
    96
    99
100
101
102
                                                                                                                                                                         }
103
                                                                                                                                 }
104
                                                                                            }
105
                                                                                             $commit['commit']['message'] = \Michelf\Markdown::defaultTransform('### ' . $commit['commit']['mess
106
                                                                                           $\text{Scommit} \text{ | message | - \text{Michell Narkdown: defaultframe}} \)
$\text{smarty-assign('commit', $\text{commit'});} \)
$\text{smarty-assign('tree', $\text{tree});} \)
$\text{smarty-assign('formTemplate', 'files.tpl');} \)
$\text{smarty-assign('formHidden', }\text{array('step' => STEP_DISPLAY));} \)
$\text{smarty-display('picker.tpl');} \]

107
108
109
110
111
112
113
                                                      case STEP_COMMIT:
114
                                                      default;
115
116
117
                                                                                             $smarty->assign('formTemplate', 'commit.tpl');
                                                                                           $\frac{\frac{1}{3}}{\frac{1}{3}}\text{ smarty-\frac{1}{3}}\text{ smarty-\frac{1}{3}}\text{ smarty-\frac{1}{3}}\text{ step' => STEP_FILES));}
$\frac{1}{3}\text{ smarty-\frac{1}{3}}\text{ step' => STEP_FILES));}
$\frac{1}{3}\text{ smarty-\frac{1}{3}}\text{ smarty-\frac{1}{3}
118
119
120 }
121
122 ?>
```

## templates/ commit.tpl

```
$$ \posite{\commit['author']['name']} < small>&lt; {\commit['author']['email']}&gt; </small><br/>&lt; {\commit['author']['date'])}
       </div>
10 </div>
```

## templates/ display.tpl

```
1 <html>
2
3
4
5
6
7
8
9
         <head>
                <style>
                        @page {
                               size: letter;
                               margin: lin;
                        @media print {
                                      page-break-after: always;
}
                        @media screen {
                               .page {
                                      margin: 1in;
                        }
                        body {
                               font-family: Helvetica, Arial, sans-serif;
                        small {
                               color: #ccc;
font-weight: normal;
                </style>
         </head>
         <body>
                <div class="page">
                        {include file="commit.tpl"}
                 </div>
                {\file['content']}
                        </div>
         </rd></fr></body>
42
43
44 </html>
```

# templates/ navigation-menu.tpl

1 {block name="navigation-menu"}{/block}

# templates/ picker.tpl

# templates/ presenter

1

#### templates/presenter/ commit.tpl

```
1 {extends file="form.tpl"}
 3 {block name="form-content"}
           <div class="form-group">
                    clase= for="commit_url" class="control-label col-sm-{\( \)formLabelWidth\\}">Commit URL</label>
<div class="col-sm-{12 - \( \)formLabelWidth\\\">
                             <input id="commit_url" name="commit_url" type="text" class="form-control" placeholder="https</pre>
                             Paste the URL of your commit from the GitHub history page
10
                    </div>
           </div>
11
12
           <div class="form-group">
13
                    <div class="col-sm-offset-{$formLabelWidth}">
14
15
                             <div class="checkbox">
16
                                      <label for="ignore_invisible">
                                               <input id="ignore_invisible" name="ignore_invisible" type="checkbox" value="</pre>
17
18
19
                                               Ignore "invisible" <code>.files</code>
                                      </label>
                            </div>
20
21
                    </div>
22
           </div>
23
24
25
           <div class="form-group">
                    clabel for="regex_filter" class="control-label col-sm-{$formLabelWidth}">Filter RegEx</label>
<div class="col-sm-{12 - 2 * $formLabelWidth}">
26
27
                             <input id="regex_filter" name="regex_filter" type="text" class="form-control" placeholder=".</pre>
28
29
                    <div class="checkbox">
30
31
32
                             <label for="enable_filter">
                                      <input id="enable_filter" name="enable_filter" type="checkbox" value="true" checked=</pre>
                                      Enable filename filtering
33
                             </label>
34
                    </div>
35
           </div>
36
           {assign var="formButton" value="Choose Files"}
37
38
39 {/block}
```

#### templates/presenter/ files.tpl

```
1 {extends file="form.tpl"}
  {block name="form-content"}
           <style>
                   .path {
                           font-size: smaller;
                   .path.dir {
10
                           color: gray;
11
12
                   .path.dir.project {
      color: black;
13
14
15
                           font-size: medium;
16
17
                   .path.file {
18
19
                           color: black;
                           font-size: medium;
20
21
22
           </style>
23
24
25
26
           {include file="commit.tpl"}
           <div class="form-group">
                   <button type="submit" class="btn btn-primary has-spinner">Display Commit <span class="spinner"><i class="spinner"><i class="spinner"></i>
27
28
29
30
31
32
          33
                                   <label for="{$leaf['sha']}">
                                            35
                                            {foreach $leaf['path_parts'] as $part}
<span class="path dir {if $first}project{$first = false}{/if}">{$par
36
37
38
                                            {/foreach}
39
                                            <span class="path file">{$leaf['filename']}</span>
40
                                   </label>
41
                           </div>
                  </div>
42
43
44
45
           {/foreach}
           {assign var="formButton" value="Display Files"}
46
47 {/block}
49 {block name="form-buttons"}{/block}
```