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lodev09 Version 1.0

8cf974e on Apr 9, 2014

1 contributor

251 lines (229 sloc) 7.85 KB

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```
1 <?php
2
3 /**
4  * @package Cache - A simple file based cache (based from Erik Giberti's FileCache class. http://af-design.com/blog/2010/07/30/simple-file-
5  * @link http://www.lodev09.com
6  * @author Jovanni Lo
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26 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
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29 *
30 * Class to implement a file based cache. This is useful for caching large objects such as
31 * API/Curl responses or HTML results that aren't well suited to storing in small memory caches
32 * or are infrequently accessed but are still expensive to generate.
33 *
34 * For security reasons, it's *strongly* recommended you set your cache directory to be outside
35 * of your web root and on a drive independent of your operating system.
36 *
37 * Uses JSON, PHP native serialization and encryption/decryption
38 *
39 * Sample usage:
40 *
41 * $cache = new Cache('/var/www/cache/');
42 * $data = $cache->get('sampledata');
43 * if(!$data){
44 *     $data = array('a'=>1,'b'=>2,'c'=>3);
45 *     $cache->set('sampledata', $data, 3600);
46 * }
47 * print $data['a'];
48 *
49 */
50
51 class Cache {
52
53     /**
54      * Value is pre-pended to the cache, should be the full path to the directory
55      * @var string
```

```

55
56 */
57 protected $root = '/tmp/';
58
59 /**
60  * For holding any error messages that may have been raised
61  * @var string
62  */
63 protected $error = null;
64
65 /**
66  * The encryption key. This is private! set this inside this class
67  * @var string
68  */
69 private $_encryption_key = "Fil3C@ch33ncryptionK3y";
70
71 /**
72  * @param string $root The root of the file cache.
73  */
74 function __construct($root = '/tmp/') {
75     $this->root = $root;
76     // Requires the native JSON library
77     if (!function_exists('json_decode') || !function_exists('json_encode')) {
78         throw new Exception('Cache needs the JSON PHP extensions.');
```

```

129     if (!$key) {
130         $this->error = "Invalid key";
131         return false;
132     }
133
134     $key = $this->_make_file_key($key);
135     $file_content = null;
136
137     if (file_exists($key) !== true) {
138         return false;
139     }
140
141     // Get the data from the file
142     try {
143         $fh = fopen($key, "r");
144         if (flock($fh, LOCK_SH)) {
145             $file_content = trim($this->_decrypt(fread($fh, filesize($key))));
146         }
147         fclose($fh);
148     }
149     catch (exception $e) {
150         $this->error = "Exception caught: ".$e->getMessage();
151         return false;
152     }
153
154     // Assuming we got something back...
155     if ($file_content) {
156         $store = json_decode($file_content, true);
157         if ($store['ttl'] < time()) {
158             unlink($key); // remove the file
159             $this->error = "Data expired";
160             return false;
161         } else return unserialize($store['data']);
162     } else return false;
163 }
164
165 /**
166  * Remove a key, regardless of it's expire time
167  * @param string $key An identifier for the data
168  */
169 public function delete($key) {
170     if (!$key) {
171         $this->error = "Invalid key";
172         return false;
173     }
174
175     $key = $this->_make_file_key($key);
176
177     try {
178         unlink($key); // remove the file
179     }
180     catch (exception $e) {
181         $this->error = "Exception caught: ".$e->getMessage();
182         return false;
183     }
184
185     return true;
186 }
187
188 /**
189  * Reads and clears the internal error
190  * @returns string Text of the error raised by the last process
191  */
192 public function get_error() {
193     $message = $this->error;
194     $this->error = null;
195     return $message;
196 }
197
198 /**
199  * Can be used to inspect internal error
200  * @returns boolean True if we have an error, false if we don't
201  */
202 public function have_error() {

```

```
203     return ($this->error !== null) ? true : false;
204 }
205
206 /**
207  * returns an encrypted string
208  * @param string $pure_string source string to encrypt
209  * @return string decrypted string
210  */
211 private function _encrypt($pure_string) {
212     $iv_size = mcrypt_get_iv_size(MCRYPT_BLOWFISH, MCRYPT_MODE_ECB);
213     $iv = mcrypt_create_iv($iv_size, MCRYPT_RAND);
214     $encrypted_string = mcrypt_encrypt(MCRYPT_BLOWFISH, $this->_encryption_key, utf8_encode($pure_string),
215         MCRYPT_MODE_ECB, $iv);
216     return $encrypted_string;
217 }
218
219 /**
220  * returns a decrypted string
221  * @param string $encrypted_string encrypted string
222  * @return string decrypted string
223  */
224 private function _decrypt($encrypted_string) {
225     $iv_size = mcrypt_get_iv_size(MCRYPT_BLOWFISH, MCRYPT_MODE_ECB);
226     $iv = mcrypt_create_iv($iv_size, MCRYPT_RAND);
227     $decrypted_string = mcrypt_decrypt(MCRYPT_BLOWFISH, $this->_encryption_key, $encrypted_string,
228         MCRYPT_MODE_ECB, $iv);
229     return $decrypted_string;
230 }
231
232 /**
233  * Create a key for the cache
234  * @todo Beef up the cleansing of the file.
235  * @param string $key The key to create
236  * @returns string The full path and filename to access
237  */
238 private function _make_file_key($key) {
239     $safe_key = str_replace(array(
240         '.',
241         '/',
242         ':',
243         '\\'), array(
244         '_',
245         '-',
246         '-',
247         '-'), trim($key));
248     return $this->root.$safe_key.".cache";
249 }
250 }
251 ?>
```