Zend_Service_ShortUrl_Bitly - Christopher Valles

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Zend Framework: Zend_Service_ShortUrl_Bitly Component Proposal

Proposed Component Name	Zend_Service_ShortUrl_Bitly
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Service_ShortUrl_Bitly
Proposers	Christopher Valles
Zend Liaison	TBD
Revision	1.0 - 17 May 2011: Initial Draft. (wiki revision: 3)

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1. Overview

Zend_Service_ShortUrl_Bitly is a component to integrate the Bit.ly short url service inside our applications. This component will allow shorting and expanding urls.

2. References

- Bit.ly API Documentation

3. Component Requirements, Constraints, and Acceptance Criteria

- This component **will** allow the developer to create short urls.
- This component **will** allow the developer to expand short urls.

4. Dependencies on Other Framework Components

- Zend_Service_ShortUrl_AbstractShortener
- Zend_Service_ShortUrl_Exception
- Zend_Json

5. Theory of Operation

The developer has an account with bit.ly
The developer instantiates Zend_Service_ShortUrl_Bitly with their username and API key
The developer uses the component to create short url and/or expand them

6. Milestones / Tasks

- Milestone 1: [DONE] Supporting Documentation, Use Cases, Class Skeletons, uploaded
- Milestone 2: Working prototype checked into the incubator supporting use cases #1, #2, ...
- Milestone 3: Unit tests exist, work, and are checked into SVN.
- Milestone 5: Initial documentation exists.

7. Class Index

- Zend_Service_ShortUrl_Bitly

8. Use Cases

UC-01

```
<?php

$bitlyService = new App_Service_ShortUrl_BitLy($username, $apiKey);
$shortUrl = $bitlyService->shorten('http://google.es');
```

UC-02

```
<?php

$bitlyService = new App_Service_ShortUrl_BitLy($username, $apiKey);
$url = $bitlyService->unshorten('http://bit.ly/1C7Y');
```

9. Class Skeletons

```
<?php
/**
 * Zend Framework
 *
 * LICENSE
 *
 * This source file is subject to the new BSD license that is bundled
 * with this package in the file LICENSE.txt.
 * It is also available through the world-wide-web at this URL:
 * http://framework.zend.com/license/new-bsd
 * If you did not receive a copy of the license and are unable to
 * obtain it through the world-wide-web, please send an email
 * to license@zend.com so we can send you a copy immediately.
 *
 * @category   Zend
 * @package    Zend_Service_ShortUrl
 * @copyright  Copyright (c) 2005-2010 Zend Technologies USA Inc.
(http://www.zend.com)
 * @license    http://framework.zend.com/license/new-bsd     New BSD License
 * @version    $Id: $
 */

/**
 * Bit.ly API implementation
 *
 * @category   Zend
 * @package    Zend_Service_ShortUrl
 * @copyright  Copyright (c) 2005-2010 Zend Technologies USA Inc.
(http://www.zend.com)
 * @license    http://framework.zend.com/license/new-bsd     New BSD License
 */
class Zend_Service_ShortUrl_BitLy extends Zend_Service_ShortUrl_AbstractShortener
{
    /**
     * Base URI of the service
     *
     * @var string
     */
    protected $_baseUri = 'http://bit.ly';

    /**
     * Username used to authenticate the api call
     *
     * @var string
     */
    protected $_username;

    /**
     * The api key of the service
     *
     * @var string
     */
    protected $_apiKey;
```

```
    /**
     * Store the username and the apiKey
     *
     * @param string $username
     * @param string $apiKey
     */
    public function __construct($username, $apiKey) {}

    /**
     * Create a short url from a full url
     *
     * @param string $url URL to Shorten
     * @throws Zend_Service_ShortUrl_Exception When URL is not valid
     * @return string Shorted URL
     */
    public function shorten($url) {}

    /**
     * Expand a short url and return the original url
     *
     * @param string $shortenedUrl URL to reveal target of
     * @throws Zend_Service_ShortUrl_Exception When URL is not valid or is not
shortened by this service
     * @return string
     */
```

```
    public function unshorten($shortenedUrl) {}
}
```

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