

Zend_Captcha Proposal - Steven Brown

<ac:macro ac:name="note"><ac:parameter ac:name="title">Under Construction</ac:parameter><ac:rich-text-body><p>This proposal is under construction and is not ready for review.</p></ac:rich-text-body></ac:macro>

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Zend Framework: Zend_Captcha Component Proposal

Proposed Component Name	Zend_Captcha
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Captcha
Proposers	Steven Brown
Revision	0.1 - 8 January 2008: Created. (wiki revision: 5)

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1. Overview

Zend_Captcha is designed to allow developers to quickly and easily implement captchas. While there should be several options so that developers can customise their captchas there should be a good default standard that is improved as advancements are made.

Audio captchas should be an option down the track.

2. References

- [Captcha Wikipedia Entry](#)

3. Component Requirements, Constraints, and Acceptance Criteria

- This component **will** provide a means for developers to implement captcha.
- This component **will** default to the most "secure" captcha preferences.
- This component **will** allow developers to customise the captcha.

4. Dependencies on Other Framework Components

- Zend_Exception

5. Theory of Operation

The captcha image can be created as an object and output to the browser from an action. The captcha answer will be stored in a session namespace (or maybe custom storage options are allowed with a reference ID). Entered data can be compared against the captcha answer.

6. Milestones / Tasks

- Milestone 1: Definition.
- Milestone 2: Working prototype.
- Milestone 3: Unit tests exist, work, and are checked into SVN.
- Milestone 4: Initial documentation exists.

7. Class Index

- Zend_Captcha_Exception
- Zend_Captcha (factory class)

8. Use Cases

9. Class Skeletons

Zend_Captcha

```
class Zend_Captcha
{
    /**
     * Chars used to generate the captcha answer
     */
    var $_answerChars;

    /**
     * Length of captcha answer
     */
    var $_answerLength;

    /**
     * The captcha answer
     */
    var $_answer;

    /**
     * Fonts, colours, distortion, displacement, rotation, size, spacing, lines
     */
}
```

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