

Zend_Service_Strikelron

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Zend Framework: Zend_Service_Strikelron Component Proposal

Proposed Component Name	Zend_Service_Strikelron
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Service_Strikelron
Proposers	Mike Naberezny, under direction of Dave Nielsen (Strikelron)
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1. Overview

This component will provide lightweight wrappers for the [Strikelron](#) SOAP services, in the same spirit of other ZF components like [Zend_Service_Amazon](#).

These wrappers will abstract away the SOAP interface and provide a familiar and easy-to-use PHP interface for the Strikelron services that will be accessible to more PHP developers.

2. References

- [ZIP Code Information \(Super Data Pack\)](#)
- [US Address Verification](#)
- [Sales and Use Tax Basic](#)

3. Component Requirements, Constraints, and Acceptance Criteria

- The PHP 5 SOAP extension must be installed and enabled.
- The component must be simpler than just directly using the PHP 5 SOAPClient and must provide clear benefit over doing so.

- The component will provide a single point of authentication for any of the Strikelron services it wraps, similar to existing ZF services like Zend_Gdata.

4. Dependencies on Other Framework Components

- Zend_Exception

5. Theory of Operation

Strikelron provides many different, loosely coupled web services. This component will wrap three of these services that are available on a free trial bases.

The component will include a simple base class, Zend_Service_Strikelron, that will serve as a single point of authentication and a provide a factory method for instantiating preconfigured clients for the different Strikelron services.

The component will be structured such that adding additional services in the future will be straightforward.

6. Milestones / Tasks

- Iteration 1 - Strikelron Base Class
- Iteration 2 - ZIP Code Information Service
- Iteration 3 - US Address Verification Service
- Iteration 4 - Sales and Use Tax Basic Service
- Iteration 5 - Documentation (DocBook)

Unit tests will be written as an integral and ongoing part of the development process so no separate iteration is needed for them.

7. Class Index

- Zend_Service_Strikelron
- Zend_Service_Strikelron_ZipCodeInfo
- Zend_Service_Strikelron_USAddressVerification
- Zend_Service_Strikelron_SalesUseTaxBasic

8. Use Cases

UC-01 ZIP Code Information Service (free)

A website requires users to provide their address before viewing Premium areas of the website. The website uses the Strikelron Zip Code Info Service to verify that the city/state are real before providing access to the user. In other words, this service helps prevent users from using "123 Main Street, AnyTown, CA USA". Only the city/state are verified. If the website wants to verify the entire address, then it can use "Strikelron's US Address Verification Service" (see below).

UC-02 US Address Verification Service (paid)

Same scenario as above, but website wants to confirm street address as well.

UC-03 Sales and Use Tax Basic Service (paid)

During checkout, some states require ecommerce merchants to charge sales tax. The website uses "Sales and Use Tax Basic Service" to calculate the City, County and State tax based on the user's zip code. The web service provides a 'total sales tax' value which is used to calculate the tax charged by the merchant to the customer.

9. Class Skeletons

Class skeletons will not be proposed at this stage. When development begins, behavioral requirements of the objects will be expressed as tests and the classes will then be developed based on these requirements using TDD.

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