



The PHP Company

# AgileZen and Zend Framework 2

## Project management software and API integration

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# About the speakers

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# Summary

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- What's AgileZen?
- Project Management with AgileZen
- Example: the Zend Framework 2 project
- The API of AgileZen
- Use AgileZen with Zend Framework 2
- Example: build a public board with AgileZen

# AgileZen

# What's AgileZen?

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- Project management software
- AgileZen helps you...
  - Visualize your work
  - Get organized
  - Communicate with your team
  - Find Ways to Improve

# What's AgileZen? (2)

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- Kanban Board for visualizing work in progress
- Developer API
- Integrations to enhance how you work:
  - GitHub
  - Bitbucket
  - Google Code
  - HipChat

# Project Management

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- AgileZen was built for the people who use it:
  - Software Developers
  - Designers
  - Creative Professionals
  - Small Teams and Startups
- Kanban Board
  - Organizes work visually
  - Visualizes work-in-progress

# Example: the Zend Framework project

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- Demo of the Zend Framework project
  - <https://agilezen.com/project/33552/board>



# AgileZen API

# API

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- The AgileZen API is designed around a concept called **REST**. In a RESTful system, information is organized into *resources*, each of which is uniquely identified via a URI: <https://agilezen.com/api/v1/>
- The AgileZen API can communicate in two wire formats, **JSON** and **XML** (JSON is default)
- Please be aware that the API **is still in beta**, and may change with short or no notice!
- API Manual: <http://dev.agilezen.com/>

# Authentication

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- Anyone can create an API key via the ***Developer*** tab on the ***Settings*** screen
- All requests to the AgileZen API must include a valid and enabled **API key** in order to be processed
- Use the **X-Zen-ApiKey** HTTP header to specify your key

# Resources

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- Attachments
- Comments
- Invites
- Me
- Phases
- Projects
- Tags
- Tasks
- Roles
- Stories
- Users

# Resources

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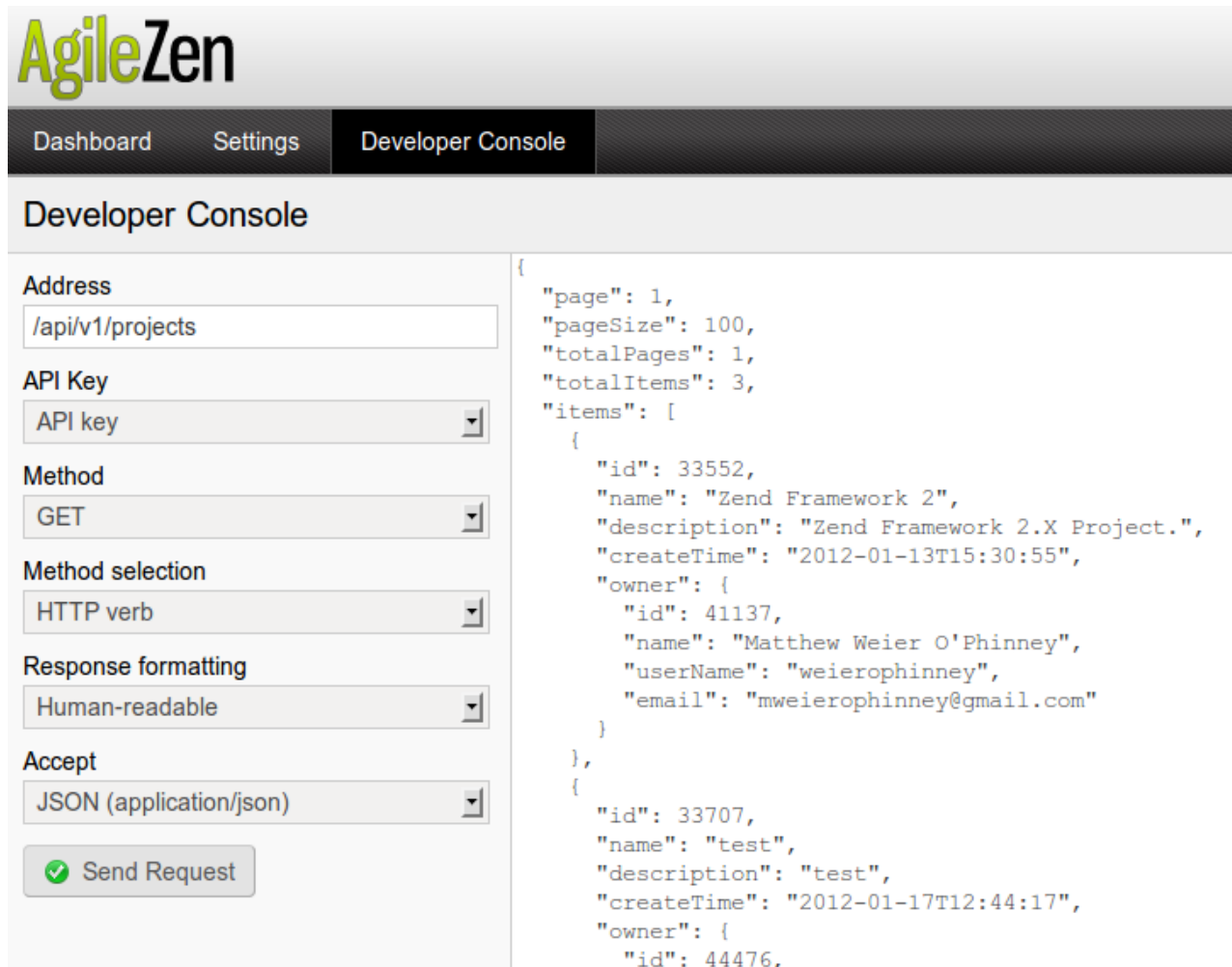
Get all the projects:

<https://agilezen.com/api/v1/projects>

```
{
  "page": 1,
  "pageSize": 100,
  "totalPages": 1,
  "totalItems": 3,
  "items": [
    {
      "id": 33552,
      "name": "Zend Framework 2",
      "description": "Zend Framework 2.X Project.",
      "createTime": "2012-01-13T15:30:55",
      "owner": {
        "id": 41137,
        "name": "Matthew Weier O'Phinney",
        "userName": "weierophinney",
        "email": "mweierophinney@gmail.com"
      }
    }
  ],
}
```

# Debug API

*Enable Developer Console on the Setting page*



The screenshot displays the AgileZen Developer Console interface. The top navigation bar includes 'Dashboard', 'Settings', and 'Developer Console'. The main area is titled 'Developer Console' and is split into two columns. The left column contains configuration fields: 'Address' (text input with '/api/v1/projects'), 'API Key' (dropdown with 'API key'), 'Method' (dropdown with 'GET'), 'Method selection' (dropdown with 'HTTP verb'), 'Response formatting' (dropdown with 'Human-readable'), and 'Accept' (dropdown with 'JSON (application/json)'). A 'Send Request' button with a green checkmark is at the bottom left. The right column displays the JSON response of the request:

```
{
  "page": 1,
  "pageSize": 100,
  "totalPages": 1,
  "totalItems": 3,
  "items": [
    {
      "id": 33552,
      "name": "Zend Framework 2",
      "description": "Zend Framework 2.X Project.",
      "createTime": "2012-01-13T15:30:55",
      "owner": {
        "id": 41137,
        "name": "Matthew Weier O'Phinney",
        "userName": "weierophinney",
        "email": "mweierophinney@gmail.com"
      }
    },
    {
      "id": 33707,
      "name": "test",
      "description": "test",
      "createTime": "2012-01-17T12:44:17",
      "owner": {
        "id": 44476,
```

# API: examples

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- Get info about a project (specified by ID):  
<https://agilezen.com/api/v1/projects/123>
- Get info about a story of a project:  
<https://agilezen.com/api/v1/projects/123/stories/456>
- Get all the projects:  
<https://agilezen.com/api/v1/projects>
- Get all the stories of a project:  
<https://agilezen.com/api/v1/projects/123/stories>

# Zend Framework 2 and AgileZen



# ZendService\AgileZen

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- We released a ZF2 service class to access the API of AgileZen in an easy way (OOP interface)
- Repository of the service class:  
[https://github.com/zendframework/ZendService\\_AgileZen](https://github.com/zendframework/ZendService_AgileZen)
- Install the ZendService\AgileZen using composer:  

```
$ curl -s https://getcomposer.org/installer | php  
$ php composer.phar install
```

# Quickstart

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- To use the **ZendService\AgileZen** we have 2 options:
  - install the *agilezen.com* certificate (secure way)
  - disable the SSL verify peer
- Install the *agilezen.com* certificate
  - e.g. GNU/Linux OS
    - get the agilezen.com certificate

```
$ openssl s_client -connect agilezen.com:443 2>&1 | sed -ne '/-BEGIN CERTIFICATE-/,/-END CERTIFICATE-/p' > agilezen.com.crt
```
    - install the certificate (Debian)

```
$ sudo cp agilezen.com.crt /usr/share/ca-certificates/  
$ sudo update-ca-certificates
```

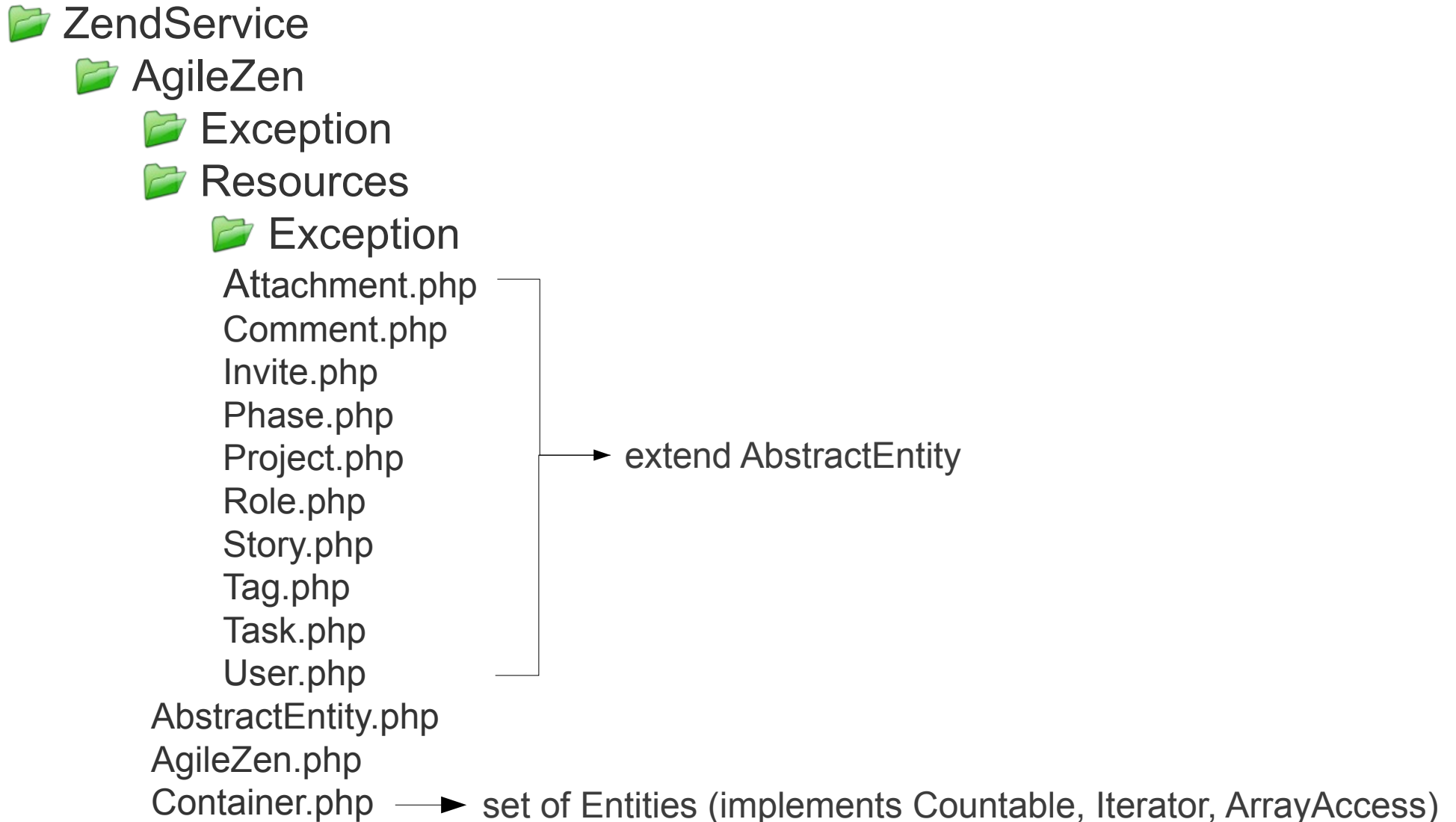
# Authentication

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```
<?php
include 'path to /vendor/autoload.php';
use ZendService\AgileZen\AgileZen;

$agileZen = new AgileZen('here the Agilezen Key');
// use a certificate
$agileZen->getHttpClient()->setOptions(array(
    'sslcapath' => '/etc/ssl/certs' // check your OS dir
));
// or disable the ssl verify peer
// $agileZen->getHttpClient()->setOptions(array(
//     'sslverifypeer' => false
// ));
if ($agileZen->authenticate()) {
    echo "Ok!\n";
} else {
    printf ("Error (%s): %s\n",
        $agileZen->getErrorCode(),
        $agileZen->getErrorMsg());
}
```

# Architecture of ZendService\AgileZen



# Example

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- List all the projects:

```
$projects = $agileZen->getProjects();  
if ($agileZen->isSuccessful()) {  
    foreach ($projects as $prj) {  
        echo $prj->getName(). "\n";  
    }  
}
```

# Example (2)

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- Get all the phases and stories of a project:

```
$phases = $agileZen->getPhases('insert here the Id of the project');
if ($agileZen->isSuccessful()) {
    foreach ($phases as $phase) {
        printf ("Phase (%d): %s\n", $phase->getId(), $phase->getName());
        $stories = $phase->getStories();
        if ($agileZen->isSuccessful()) {
            foreach ($stories as $story) {
                printf ("Story (%d): %s\n", $story->getId(), $story->getText());
            }
        } else {
            printf ("Error reading the stories, %s", $agileZen->getErrMsg());
        }
        echo "\n";
    }
}
```

# Example (3)

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- Add a task to a story

```
$story = $agileZen->getStory('project ID', 'story ID');  
if (false !== $story) {  
    $data = array (  
        'text' => 'a new task!'  
    );  
    $story->addTask($data);  
    if ($agileZen->isSuccessful()) {  
        echo "Task added successfully\n";  
    }  
}
```

# Dev board of Zend Framework

<http://framework.zend.com/zf2/board>

The screenshot shows the Zend Framework 2 Dev board interface. At the top, there is a navigation bar with the Zend Framework logo and links for ABOUT, DOWNLOADS, DOCUMENTATION, COMMUNITY, and SERVICES. A search bar is located on the right side of the navigation bar. The main heading is "Dev board: Zend Framework 2". Below the heading is a "Tag filter" dropdown menu. The main content area is divided into several sections: "Backlog", "RFC" (which is currently selected and expanded to show two items: "Forms (Matthew Weller O'Phinney)" and "i18n / i10n ()"), "Ready for Work", "Work In Progress", "Complete", and "Merged". On the right side, there is a "ZF2 DEVELOPMENT" section with links to "Get ZF2! (2.0.0beta3)", "ZF2 DevBlog", "ZF2 Planning and Development Status", "ZF2 Wiki", "ZF2 Issues", "Fork ZF2 on GitHub", "ZF2 Git Guide", and "Subscribe to the ZF contributors mailing list". Below that is an "INVITE ME" section with a link to "Invite me to the ZF2 AgileZen board". At the bottom, there is a footer with the text "Zend Framework 2 is using AgileZen, an online Kanban system, to manage releases and features; Rallydev, the makers of AgileZen, have generously provided us with an open source license."



# Questions?

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# Thank you!

## More info:

<http://www.agilezen.com>

<http://framework.zend.com>

