

# SilverStripe Framework

SilverStripe Framework is the standalone software that underpins the SilverStripe Content Management System (CMS). It is an object-oriented PHP5 web application framework based on a Model-View-Controller (MVC) architecture, a popular approach for building web-based applications. SilverStripe Framework reduces the overhead associated with common programming tasks, and enables developers to write code in a logical and structured manner.

```
1 // Allows visitors to Like each Page once per
2 // Code submitted by relaxt confusion labs
3 class Page extends SiteTree {
4
5     private static $has_many = array(
6         'Likes' => 'Page_Like'
7     );
8
9 }
10
11 class Page_Controller extends ContentController
12 {
13     // Enables liking a Page by appending "Like"
14     private static $allowed_actions = array(
15         'likethispage'
16     );
17
18     public function likethispage(SS_HTTPRequest $request)
19     {
20         $ip = $request->getIP();
21         if($this->Likes()->filter('IP', $ip)->count() > 0)
22             $pageLike = Page_Like::create();
23         $pageLike->IP = $ip;
24         $this->Likes()->add($pageLike);
25         $this->redirectBack();
26     }
27 }
28
29 // Page_Like extends DataObject {
30 //     private static $has_one = array(
31 //         'Page' => 'Page'
32 //     );
33 //     private static $has_many = array(
34 //         'Users' => 'User'
35 //     );
36 //     private static $belongs_to = array(
37 //         'User' => 'User'
38 //     );
39 // }
```

## Simple or complex

The Framework is targeted at savvy PHP programmers. It gives developers creative freedom in building complex websites quickly and robustly, allowing them to edit code directly, without having to go through a restrictive Graphical User Interface (GUI) to manage code. SilverStripe Framework is built upon modern best practices, using an object-oriented MVC/Object-Relational Mapping (ORM) architecture.

## Our Object-Relational Mapper takes care of your data

You only need to define your data model using our easy to learn, object-oriented PHP5 syntax. We'll build the database for you, and update its schema whenever it needs to change. We'll give you easy to use methods for accessing relationships. We even provide you with forms for editing your data model—both simple properties and complex relationships.

## Build your web forms in no time

You are likely to create plenty of forms in any application you build. We give you a helping hand by scaffolding sophisticated forms for you to customise. If you need something more tailored, you can still rely on our extensive library of form fields to get you there more quickly.

## Commercially supported open source

SilverStripe Framework is released under the open source BSD license, with its development taking place publicly in collaboration with the community. You can get commercial support if you need it, through SilverStripe, its partners and the SilverStripe Developer Network.

## Reuse your code

Everything you make in SilverStripe Framework can be separated into modules. This includes all the code, templates and configuration files. With SilverStripe Add-ons, you can make modules that modify the behaviour of other, more core, modules. The end result is a framework that is perfect for creating modular, reusable code.

## Free UIs and APIs

Tell SilverStripe Framework about your data model, and you will get three interfaces for free, a RESTful API, a SOAP API and an administrative editing interface.

## A template engine for front-end gurus

Why should template authors need to wade through PHP script to bring their ideas to life? Our template engine is deliberately simple, keeping application logic in the model and controller layers where it belongs. You have complete control of your HTML, enabling you to take advantage of HTML5 and CSS3 to your heart's content. Our requirements system will look after your included JavaScript and CSS files.

## All the fundamentals

SilverStripe Framework also provides friendly URLs, a powerful security model, server-side caching for high performance, support for multiple languages and Unicode and is cross platform (Linux, Mac, Windows servers; MySQL, PostgreSQL and SQL Server 2012 databases).

To learn more, visit →

[silverstripe.org/software](http://silverstripe.org/software)