

What happens here?

The webserver receives a request from someone/somewhere. The request will then get forwarded to the ZF2 application, if it matches the defined configuration. This will execute the file „public/index.php“
With apache this is done in the <vhosts> section and/or with the .htaccess inside the public directory.

Performance tuning

Try to avoid a .htaccess file and define everything in the <vhosts> section and also define there „AllowOverride none“.
So Apache don't search for a .htaccess or .htpasswd file!

What happens here?

The index.php is the entry point for every ZF2 request. Autoloading, configuration and execute the MVC is called here.

Performance tuning

Use generated classmaps for best autoloading speed.

Security

The index.php is in the public directory!
So define here nothing that is a potential security risk, like usernames, passwords and paths.
Generally keep the index.php as small as possible.

What happens here?

The configuration gets loaded for Zend\Mvc\Application. There are definitions like: available modules, paths, custom services...

Performance tuning

Cache and load the file from memory (micro optimization)

Good to know

The modules are loaded in the order like you define it in the configuration! So if the same configuration is defined in two or more modules, the last one wins!

What happens here?

Basic services and objects are getting registered like:
- Request, Response, Route, ViewManager
- AppConfig, ModuleManager, EventManager, ...
Also all defined modules are getting „bootstrapped“ over the <module_name>/Module.php, there the following methods are searched and executed if found:
- getAutoloaderConfig(), init(), getConfig(), onBootstrap()

Performance tuning

Keep the called methods in Module.php as small as possible! They will get called for EVERY request!
Cache the whole Zend\Mvc\Application object in memory after init() was called. Only the Request object has to be changed for each request?!?!?!?!?

What happens here?

Now the request related action will get called (if found in the route). Or a error action/page is shown: 404 NotFound, 500 internal error

Performance tuning

Don't write too much code? ☺

Good to know

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Zend\Mvc\Application::init()

loadModules

Executed for each module!

loadModule.resolve

loadModule

loadModules.post

bootstrap

Zend Framework 2 „MVC standard events“

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Zend\Mvc\Application::run() – HTTP status 200

route

dispatch

render

renderer

response

finish

Zend\Mvc\Application::run() – HTTP status 404

route

dispatch.error

render

renderer

response

finish

Zend\Mvc\Application::run() – HTTP status 500

route

dispatch

dispatch.error

render

renderer

response

finish

Module.php methods,

which get called....if they exist! The methods are declared in the order, they will get executed

The methods are called on three different events (see below): „loadModule.resolve“, „loadModule“ and „bootstrap“

```
<?php
namespace SomeModule;

// Load the appropriate interfaces. You can use every one inside of Zend\ModuleManager\Feature\...Interface
use Zend\ModuleManager\Feature\AutoloaderProviderInterface;
use Zend\ModuleManager\Feature\ConsoleBannerProviderInterface;
// we would have to use here all (but that's to long!)
class Module implements AutoloaderProviderInterface, ConsoleBannerProviderInterface {

    /**
     * Normal constructor -> Event "loadModule.resolve"
     * @return void
     */
    public function __construct () {}

    /**
     * Autoloading config -> Event "loadModule"
     * @return array \Traversable
     */
    public function getAutoloaderConfig () {}

    /**
     * Initialize the Module -> Event "loadModule"
     * @param \Zend\ModuleManager\ModuleManager $moduleManager
     * @return void
     */
    public function init (\Zend\ModuleManager\ModuleManager $moduleManager) {}

    /**
     * General config -> Event "loadModule"
     * @return array \Traversable
     */
    public function getConfig () {}

    /**
     * Additional service config -> Event "loadModule"
     * @return array \Traversable \Zend\ServiceManager\Config
     */
    public function getServiceConfig () {}

    /**
     * Additional controller config -> Event "loadModule"
     * @return array \Traversable \Zend\ServiceManager\Config
     */
    public function getControllerConfig () {}

    /**
     * Additional controller plugin config -> Event "loadModule"
     * @return array \Traversable \Zend\ServiceManager\Config
     */
    public function getControllerPluginConfig () {}

    /**
     * Additional view helper config -> Event "loadModule"
     * @return array \Zend\ServiceManager\Config
     */
    public function getViewHelperConfig () {}

    /**
     * The console banner.
     * Shown with no parameters, or invalid parameters
     * @param \Zend\Console\Adapter\AdapterInterface $console
     * @return string null
     */
    public function getConsoleBanner (\Zend\Console\Adapter\AdapterInterface $console) {}

    /**
     *
     * @param \Zend\Console\Adapter\AdapterInterface $console
     * @return array string null
     */
    public function getConsoleUsage (\Zend\Console\Adapter\AdapterInterface $console) {}

    /**
     * Bootstrap the module -> Event "bootstrap"
     * @param \Zend\Mvc\MvcEvent $event
     * @return void
     */
    public function onBootstrap (\Zend\Mvc\MvcEvent $event) {}
}
```

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Zend\Mvc\Application::init() – Initialize the application – this will get executed for EVERY request!

Zend\ServiceManager\ServiceManager

Register of following services (Standard services)

SharedEventManager
EventManager
ModuleManager
Zend\Event\EventManagerInterface
ServiceManager
Zend\ServiceManager\ServiceLocatorInterface
Zend\ServiceManager\ServiceManager
ApplicationConfig
ServiceListener
ServiceListenerInterface

+ custom services from „application.config.php“

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Event: loadModules

For each module defined in application.config.php
Executed in the order from config!

Event: loadModule.resolve

Event: loadModule

All modules loaded? No = next module

module/<module_name>/Module.php

__construct()

getAutoloaderConfig()
Init()
getConfig()
getServiceConfig()
getControllerConfig()
getControllerPluginConfig()
getViewHelperConfig()

Event: loadModules.post

Zend\Mvc\Application::bootstrap()

Attach RouteListener, DispatchListener and ViewManager to the event manager

Zend\Mvc\MvcEvent

Setting up MVC event stack: application, request, response, router, ...

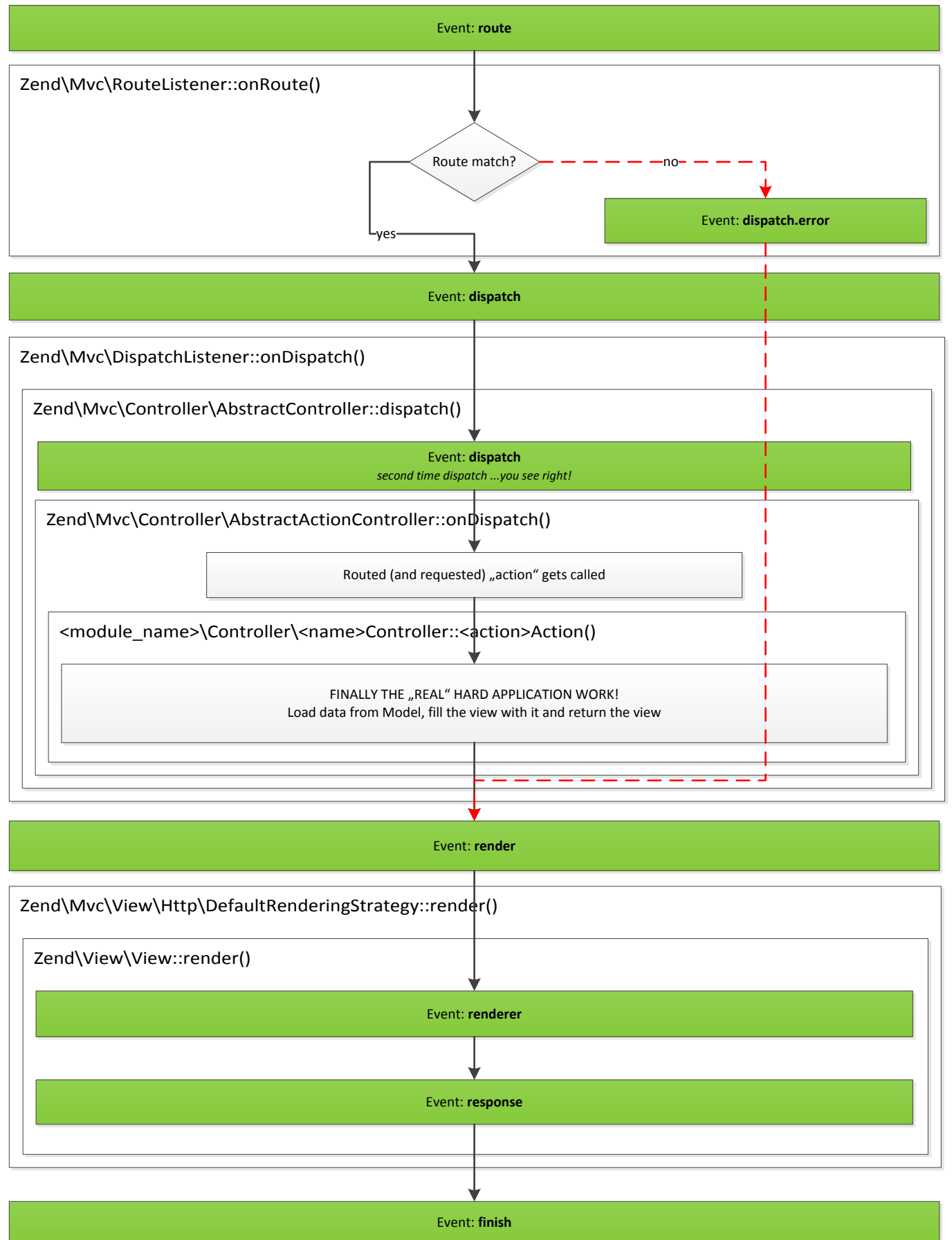
Event: bootstrap

For each module defined in application.config.php
Executed in the order from config!

onBootstrap()

All modules loaded? No = next module

Zend\Mvc\Application::run() – Execute the requested action – run the application itself



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