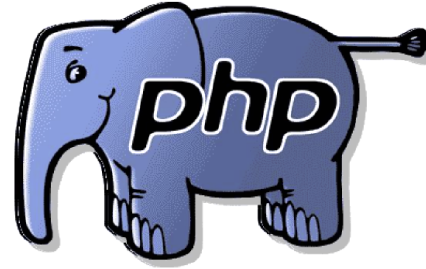




The Fast, Secure and Professional PHP Framework

Outline

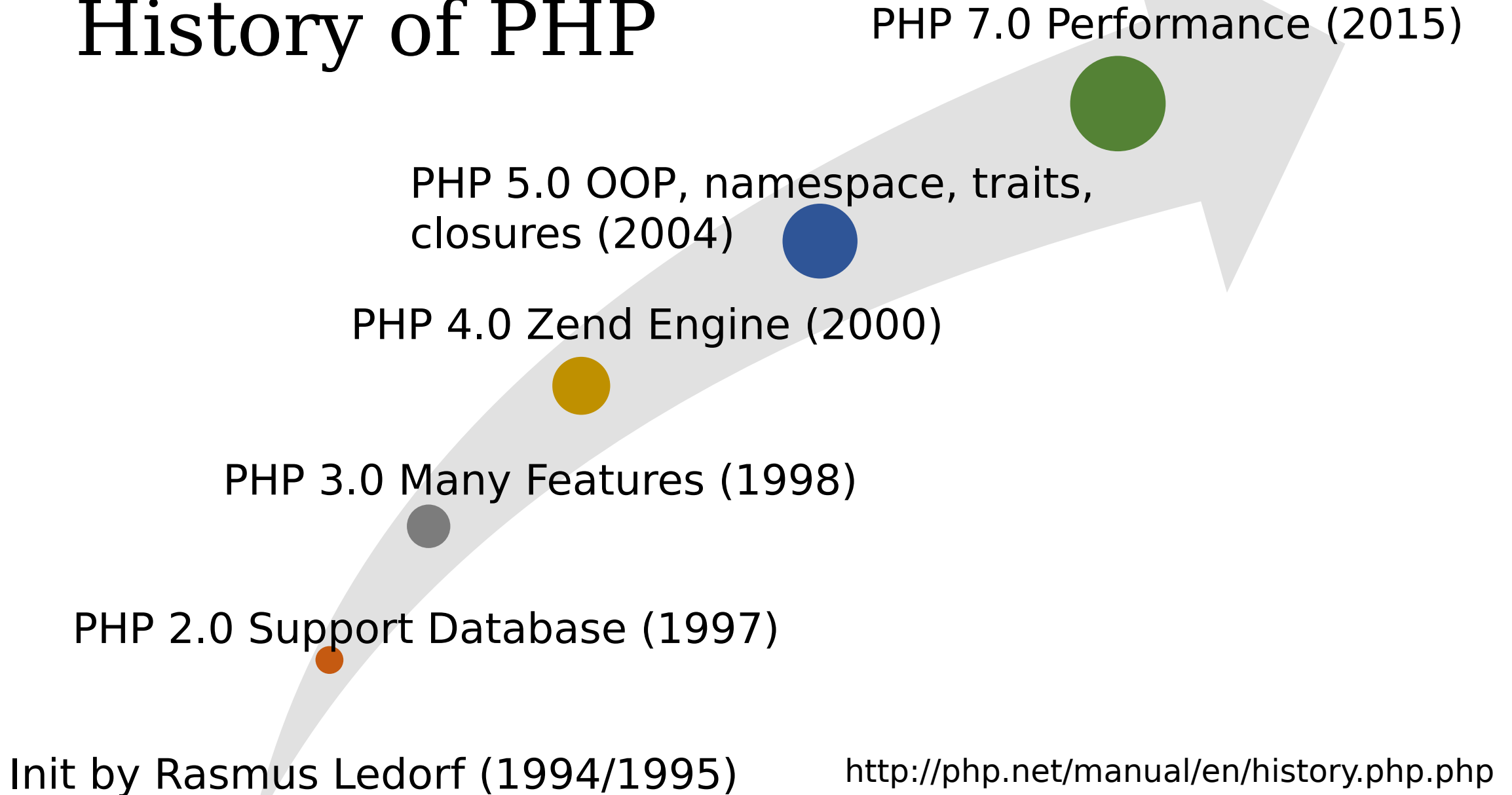
- History of PHP
- History of PHP Framework
- What's Yii?
- Installation Yii
- Configuration Yii



History of PHP

<http://php.net/manual/en/history.php.php>

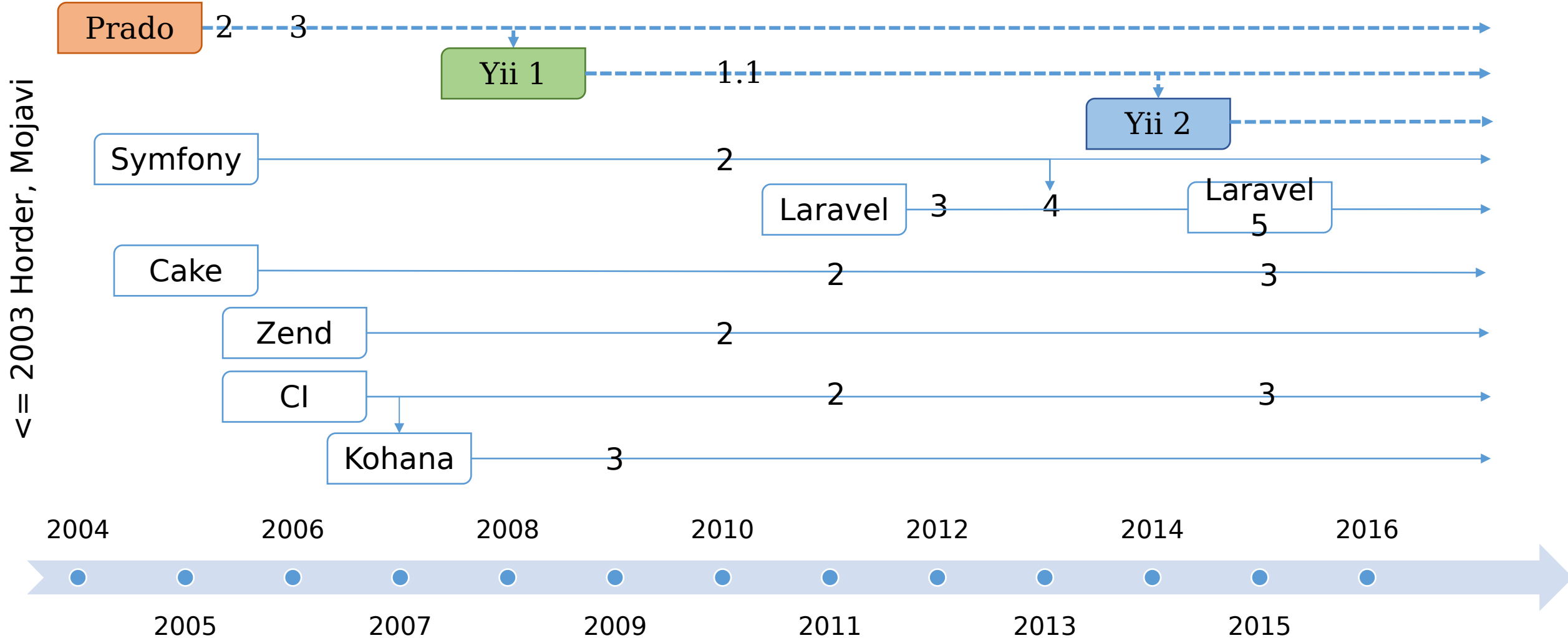
History of PHP



History of PHP Framework

<https://github.com/pmjones/php-history>

Map of PHP Framework *)



*) only fullstack & non c ext

What's Yii?

<http://www.yiiframework.com>

What's Yii

- Yii is PHP Framework that developed by Qiang Xue at 2006 and release 2008
- Yii comes with rich features: MVC, DAO/ActiveRecord, I18N/L10N, caching, authentication and role-based access control, scaffolding, testing, etc. It can reduce your development time significantly.
- Yii support new technology: Composer, almost PSR, PHP7, HHVM
- Latest version 2.0.14 (Feb 2018)
- Official site : <http://www.yiiframework.com>

PHP Standard Recommendation

<http://www.php-fig.org> (PHP Framework Interop Group)

Yii is part of PHP FIG

PSR

AUTOLOADING

Autoloaders remove the complexity of including files by mapping namespaces to file system paths.

PSR-4: Improved Autoloading

```
<?php

use Vendor\Package\ClassName;

$object = new ClassName();
```

INTERFACES

Interfaces simplify the sharing of code between projects by following expected contracts.

PSR-3: Logger Interface

PSR-7: HTTP Message Interfaces

```
<?php

namespace Psr\Log;

/**
 * Describes a logger instance
 */
interface LoggerInterface
{
```

CODING STYLES

Standardized formatting reduces the cognitive friction when reading code from other authors.

PSR-1: Basic Coding Standard

PSR-2: Coding Style Guide

Ex.

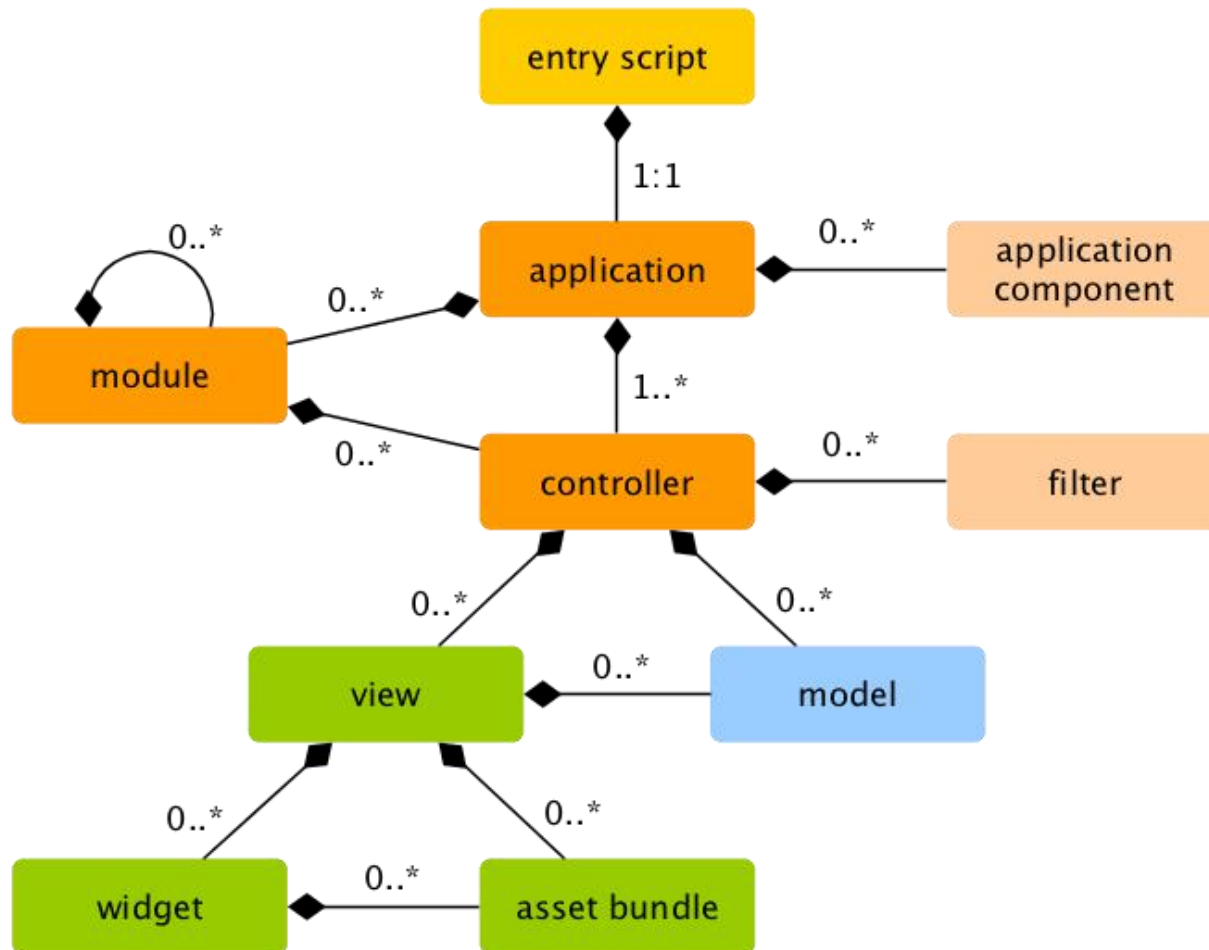
- StudlyCaps for class name
- camelCase for method name

```
<?php

namespace Vendor\Package;

class ClassName
{
    public function fooBarBaz($arg)
    {
        // method body
    }
}
```

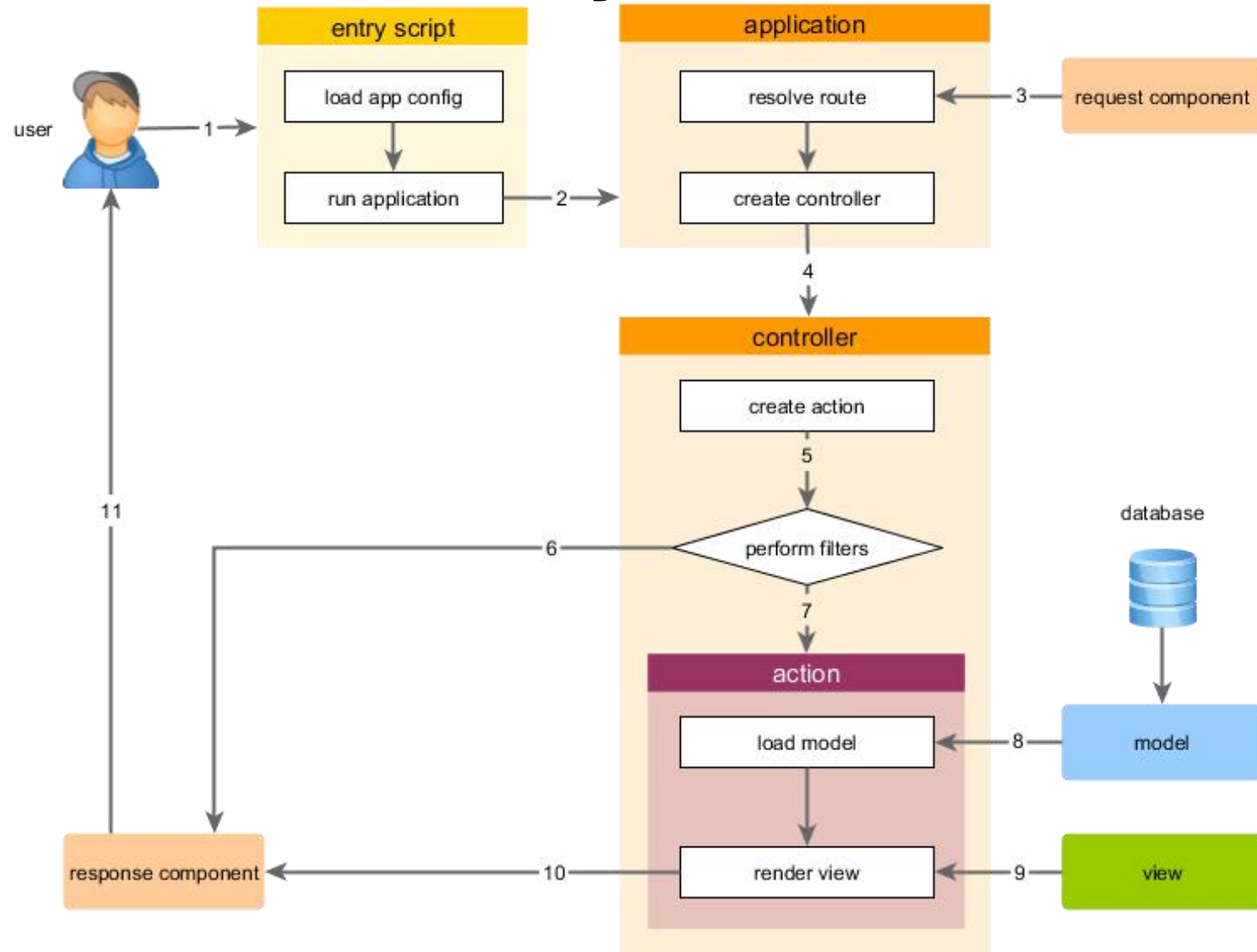
Arsitektur MVC Yii



<http://www.yiiframework.com/doc-2.0/guide-structure-overview.html>

- Entry Script adalah script PHP yang bertanggung jawab untuk memulai siklus penanganan permintaan.
- Application berguna untuk mengelola konfigurasi aplikasi.
- AppComponent obyek yang terdaftar dengan aplikasi.
- Module merupakan suatu pengelompokan yang memiliki MVC sendiri.
- Controller bertugas mengambil input dan mengubahnya menjadi perintah untuk model dan view.
- Filter merupakan kode yang perlu dipanggil sebelum dan sesudah penanganan sebenarnya dari setiap Controller.
- Model merepresentasikan data, logika bisnis dan aturan.
- View representasi output untuk user bisa dari model/controller.
- Widget objek yang dapat berada dalam view. Mereka dapat berisi logic controller dan dapat digunakan kembali dalam view yang berbeda.
- Asset Bundle digunakan untuk mengelola asset-asset mencakup CSS dan JavaScript file.

Application Life Cycle



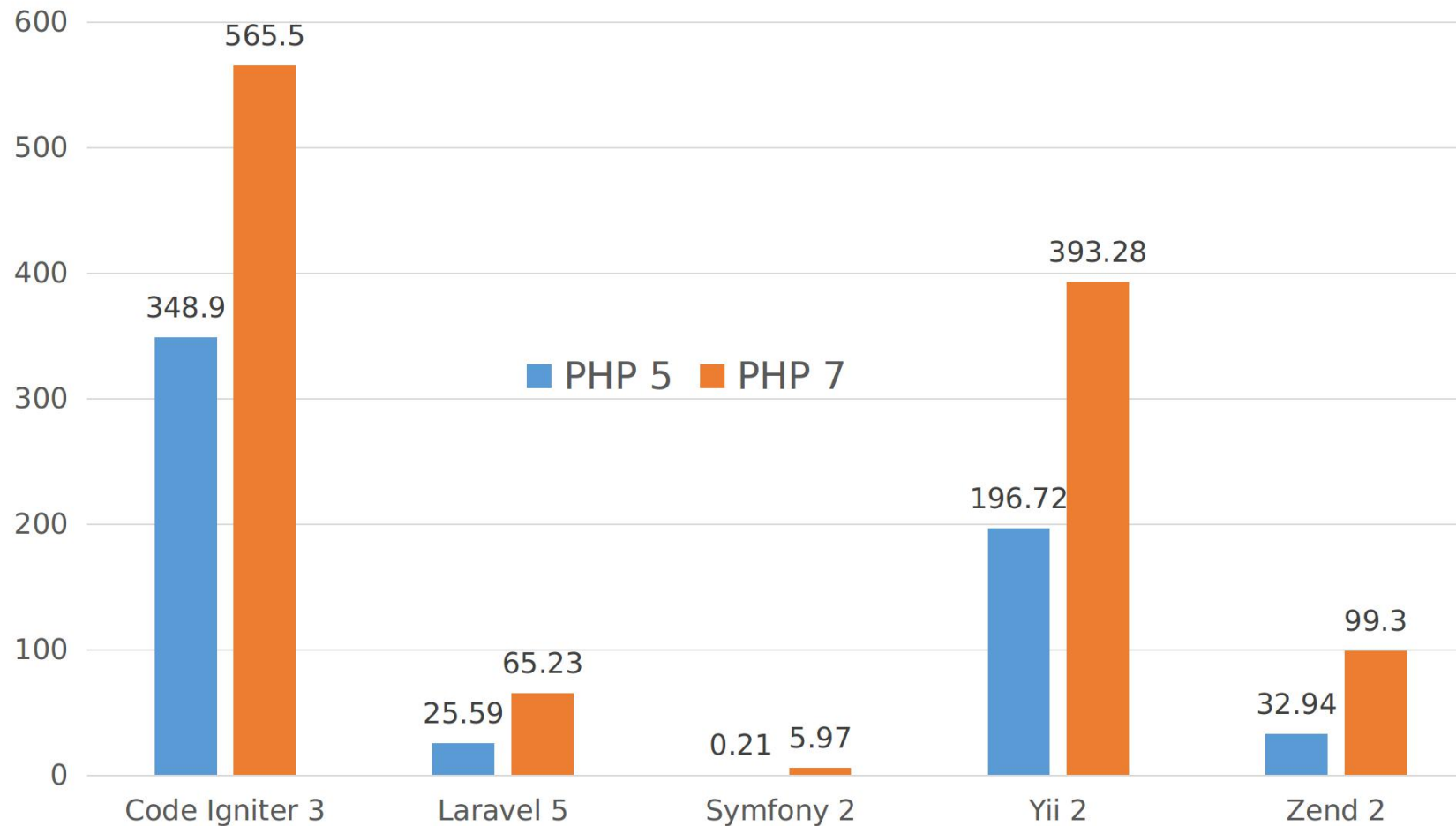
Why You should choose
Yii?

Good Performance

Yes, it's not best, but good

Yii on PHP 5 vs PHP 7

Full Stack Framework Benchmark



Spesification

- Core 1
- Memory 512 MB
- 20 GB SSD
- Ubuntu
- Apache
- PHP 5/7
- PHP opCache enabled

<https://github.com/enjis/php-framework-benchmark>

Why PHP 7 faster than 5

<http://www.slideshare.net/petrabarus/whats-new-in-php7>

Good Security

Built-in Security Feature

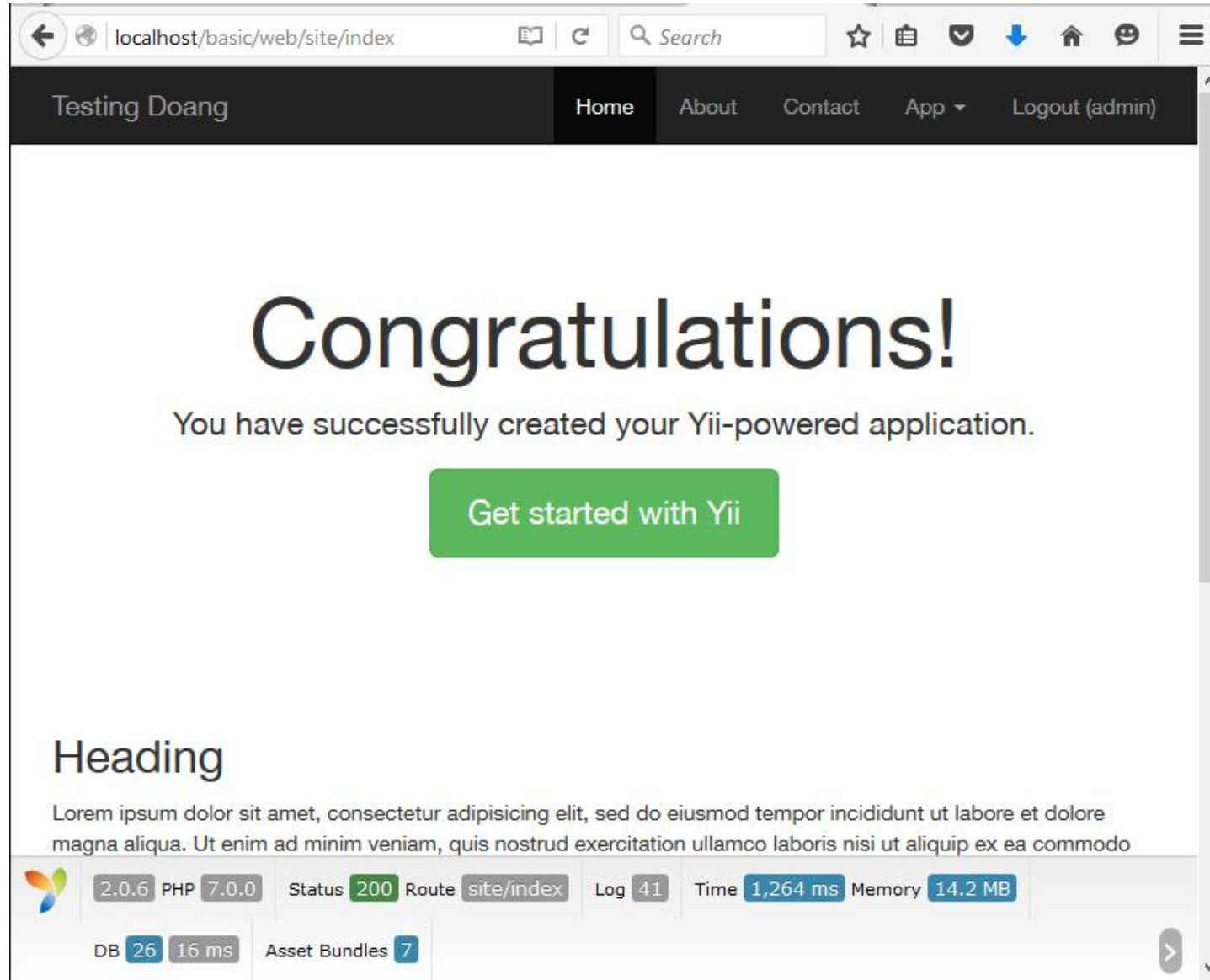
- Authentication & Authorization
- Tools to deal with SQL injections, XSS attacks, CSRF attacks
- Standard input validation & output filtering
- Easy to use other security feature: hash password, encrypt & decrypt
- Reviewed by web security expert (Tom Worster and Anthony)

Reduce Our
Development Time

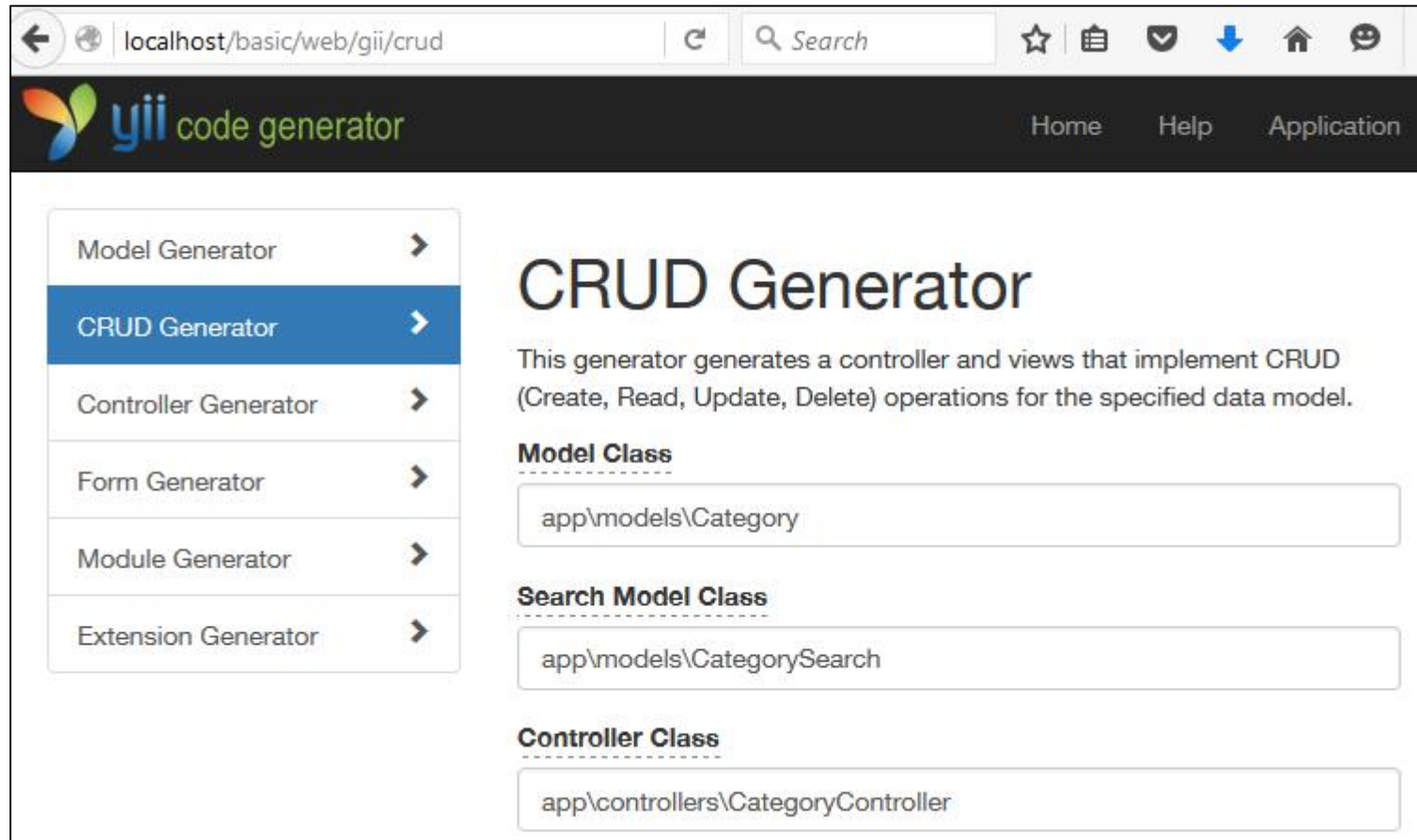
Many features to reduce our development time

- Support PHP Dependency Manager - Composer
- Integrate with User Interface Framework - Twitter Bootstrap, and You can use the other
- Application Template
- Built-in Scaffolding Generator - Gii
- Centralize Validation in models, (client & server validation)
- Many built-in useful Widgets
- Automatic routing (by default)
- Simplify to create API Restful Web Service
- Integrate with Testing Tools - Codeceptions
- etc

Twitter Bootstrap Ready



Gii : a magical tool that can write code for you



The screenshot shows the Yii Gii code generator web interface. The browser address bar indicates the URL is `localhost/basic/web/gii/crud`. The page features a dark header with the 'yii code generator' logo and navigation links for 'Home', 'Help', and 'Application'. On the left, a sidebar lists various generators: 'Model Generator', 'CRUD Generator' (which is highlighted with a blue background), 'Controller Generator', 'Form Generator', 'Module Generator', and 'Extension Generator'. The main content area is titled 'CRUD Generator' and includes a descriptive paragraph: 'This generator generates a controller and views that implement CRUD (Create, Read, Update, Delete) operations for the specified data model.' Below this, there are three sections for class name input: 'Model Class' with the value `app\models\Category`, 'Search Model Class' with the value `app\models\CategorySearch`, and 'Controller Class' with the value `app\controllers\CategoryController`.

localhost/basic/web/gii/crud

yii code generator

Home Help Application

Model Generator >

CRUD Generator >

Controller Generator >

Form Generator >

Module Generator >

Extension Generator >

CRUD Generator

This generator generates a controller and views that implement CRUD (Create, Read, Update, Delete) operations for the specified data model.

Model Class

`app\models\Category`

Search Model Class

`app\models\CategorySearch`

Controller Class

`app\controllers\CategoryController`

INSTALLATION

Requirements

The minimum requirement by this project template is that your Web server supports PHP 5.4.0.

Yii 2 Basic Project Template

Yii 2 Basic Project Template is a skeleton Yii 2 application best for rapidly creating small projects.

The template contains the basic features including user login/logout and a contact page. It includes all commonly used configurations that would allow you to focus on adding new features to your application.

Yii 2 Advanced Project Template

Yii 2 Advanced Project Template is a skeleton Yii 2 application best for developing complex Web applications with multiple tiers.

The template includes three tiers: front end, back end, and console, each of which is a separate Yii application. Frontend is typically what is presented to end user, the project itself. Backend is admin panel, analytics and such functionality. Console is typically used for cron jobs and low-level server management. Also it's used during application deployment and handles migrations and assets.

The template is designed to work in a team development environment. It supports deploying the application in different environments.

It also goes a bit further regarding features and provides essential database, signup and password restore out of the box.

Comparison

The following table compares the difference between the advanced and the basic project templates:

Feature	Basic	Advanced
Project structure	✓	✓
Site controller	✓	✓
User login/logout	✓	✓
Forms	✓	✓
DB connection	✓	✓
Console command	✓	✓
Asset bundle	✓	✓
Codeception tests	✓	✓
Twitter Bootstrap	✓	✓
Front- and back-end apps		✓
Ready to use User model		✓
User signup and password restore		✓

Online Installation via Composer



```
composer create-project --prefer-dist yiisoft/yii2-app-basic mybasic
```

Online Installation via Composer



```
composer create-project --prefer-dist yiisoft/yii2-app-advanced yii-application
```



Congratulations!

You have successfully created your Yii-powered application.

[Get started with Yii](#)

Heading

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[Yii Documentation »](#)

Heading

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[Yii Forum »](#)

Heading

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[Yii Extensions »](#)

