# **Episode 1 - Installing and setting up your blog**

Hello,

In this tutorial we will create our own SEO friendly blog based on Yii v2 framework. For more information please check Episode o - What you will create.

# **Prereq**

This tutorial series gives you the step by step instructions on how to create awesome Yii applications. You will learn how to work with Yii 2 framework by examples. It is really simple, but I assume that you have at least some experience with OOP PHP, MySQL, HTML and JavaScript already. If you will have any questions or if you will need deeper explanation, please leave your questions in the comments section below this article.

### **Installation**

So let's start, first we need to install and setup our Yii application project. For this project we will use the advanced application template. If you need more information what is Yii Advanced application template and how to install Composer, please visit our another episode: Yii2 Essentials - Yii2 Installation.

If you have already installed Composer and you are familiar with Yii application templates, please continue reading here. Now you need to open console and **navigate to the root directory of your web server**, then run these commands in console:

```
composer global require "fxp/composer-asset-plugin:~1.1.1"
and
composer create-project yiisoft/yii2-app-advanced blog 2.0.8
```

We must initialize our application after installation. Advanced application template have two default environments: dev and prod. First is for development. It has all the developer tools and debug turned on. Second is for production server deployments. It has debug and developer tools turned off.

Type and run these commands:

```
cd blog
```

and

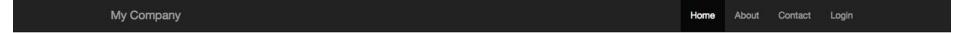
To choose dev environment type "o" and press RETURN. After this you must confirm your selection. To confirm type "yes" and than press RETURN again.

You should see something like this:

```
Yii Application Initialization Tool v1.0
Which environment do you want the application to be initialized in?
  [0] Development
  [1] Production
  Your choice [0-1, or "q" to quit] 0
  Initialize the application under 'Development' environment? [yes|no] yes
  Start initialization ...
   generate backend/config/main-local.php
   generate backend/config/params-local.php
   generate backend/web/index-test.php
   generate backend/web/index.php
   generate common/config/main-local.php
   generate common/config/params-local.php
   generate console/config/main-local.php
   generate console/config/params-local.php
   generate frontend/config/main-local.php
   generate frontend/config/params-local.php
   generate frontend/web/index-test.php
   generate frontend/web/index.php
   generate yii
   generate cookie validation key in backend/config/main-local.php
   generate cookie validation key in frontend/config/main-local.php
      chmod 0777 backend/runtime
      chmod 0777 backend/web/assets
      chmod 0777 frontend/runtime
      chmod 0777 frontend/web/assets
      chmod 0755 yii
      chmod 0755 tests/codeception/bin/yii
  ... initialization completed.
```

Now you should be able to go to

And you should see this:



# Congratulations!

You have successfully created your Yii-powered application.

Get started with Yii

# Heading

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Yii Forum »

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Yii Extensions »



# **Setting basic things**

#### .htaccess

We do not want to point to /frontend/web folder manually every time. To do this automatically we must create 3 new .htaccess files. First we will create in our application root directory (/.htaccess) with this content:

```
<IfModule mod_autoindex.c>
   Options -Indexes
</IfModule>
<IfModule mod_rewrite.c>
   Options +FollowSymlinks
   RewriteEngine On
   RewriteCond %{REQUEST_URI} ^/backend
   RewriteRule ^backend/(.*)$ backend/web/$1 [L]
   RewriteCond %{REQUEST_URI} !^public
   RewriteRule ^(.*)$ frontend/web/$1 [L]
   RewriteCond %{HTTP_USER_AGENT} libwww-perl.*
   RewriteRule .* - [F,L]
</IfModule>
<Files ~ "(.json|.lock|.git)">
   Order allow, deny
   Deny from all
</Files>
```

```
RewriteRule (^{\cdot}.|/\.) - [F]
```

Second file we will create in the /frontend/web directory (/frontend/web/.htaccess) and third in the /backend/web directory (/backend/web/.htaccess) with this (the same) content:

```
Options +FollowSymLinks

IndexIgnore */*

RewriteEngine on

RewriteCond %{REQUEST_FILENAME} !-f

RewriteCond %{REQUEST_FILENAME} !-d

RewriteRule . index.php

Now we should be able to go to this URL:

http:
```

### **Pretty URLs**

and see Yii welcome page.

#### Front end

Below is sample of the current application URL address pointing to actionIndex() method of the siteController class:

http://localhost/blog/frontend/web/index.php?r=site%2Findex

We do not want to have so long and ugly URLs. Also for the good position in search engines like Google (SEO) are pretty URLs necessary. To setup pretty URLs in advanced application template we need to edit frontend or backend config files. Now we only need to setup frontend routing. So, lets do it. Open your /frontend/config/main.php configuration file and add this code to components array:

```
'urlManager' => [
    'enablePrettyUrl' => true,
    'showScriptName' => false,
    'rules' => [
    ],
],
```

'components' => [

After saving this configuration file and refreshing our blog, we will see pretty URLs. The URL address bellow points to same controller and action as URL before, but is much more better readable.

http://localhost/blog/frontend/web/site/index

# **Back end**

],

We do not need to set up pretty URLs for the backend application now. The reason is that only frontend will be accessible for standard users and for search engines. But if do you want to set up pretty URLs also for backend, just edit the /backend/config /main.php configuration file the same way as the frontend configuration file.

#### **Application name**

The name property specifies the application name that may be displayed to end users. We can set up this property in our common/config/main.php configuration file. Add this line of code after the vendorPath property:

```
'name' => 'My-Yii Blog',
```

Now we can get the application name with this code:

```
Yii::$app->name
```

Let's use it in our front end main layout file (frontend/views/layouts/main.php). Set the brandLabel property in NavBar widget like this:

```
'brandLabel' => Yii::$app->name,
and in our footer container:
class="pull-left">© <?= Yii::$app->name ?> <?= date('Y') ?>
```

It is not necessary to configure this property if none of our code is using it, but I decided to configure it to help you understand Yii config files and theirs properties.

#### **Database connection**

Before setting up the database connection we have to create new database. So, create new MySQL database with name blog. Leave this database empty for now. We will create tables later.

Before proceeding, make sure you have installed both the PDO PHP extension and the PDO driver for the database you are using (e.g. pdo\_mysql for MySQL). This is a basic requirement if your application uses a relational database. <sup>1</sup>

#### *Updated 25.5.2016:*

Instead of editing common/config/main-local.php file we will edit environments/dev/common/config/main-local.php configuration file <sup>2</sup>. It is better to do it this way because we will use these credentials only in local development. For production you will need to use another credentials.

Now we need to connect our blog to the MySQL database. To do this, we will edit the environments/dev/common/config/main-local.php file. Change the parameters to be correct for your database and MySQL server:

```
'db' => [
    'class' => 'yii\db\Connection',
    'dsn' => 'mysql:host=localhost;dbname=blog',
    'username' => 'root',
    'password' => 'root',
    'charset' => 'utf8',
],
```

After this, run

```
php init
```

command again, choose o, type yes and All to overwrite old config files and then press RETURN to confirm.

#### **Testing connection**

We will test our database connection by running Yii migration command trough console:

```
php yii migrate
```

Yii Migration Tool will ask you: Apply the above migration? Type "yes" and press RETURN. You should see:

If your migration was done successfully, you have just created User table in your blog database.

#### Congratulations! Your blog is now ready to Sign up and Log in users.

We will continue building our blog in next episode. If do you have any questions regarding to this episode, please write them below to the comments section.

Download files from this episode: episode 01.zip.