PHP for Professionals

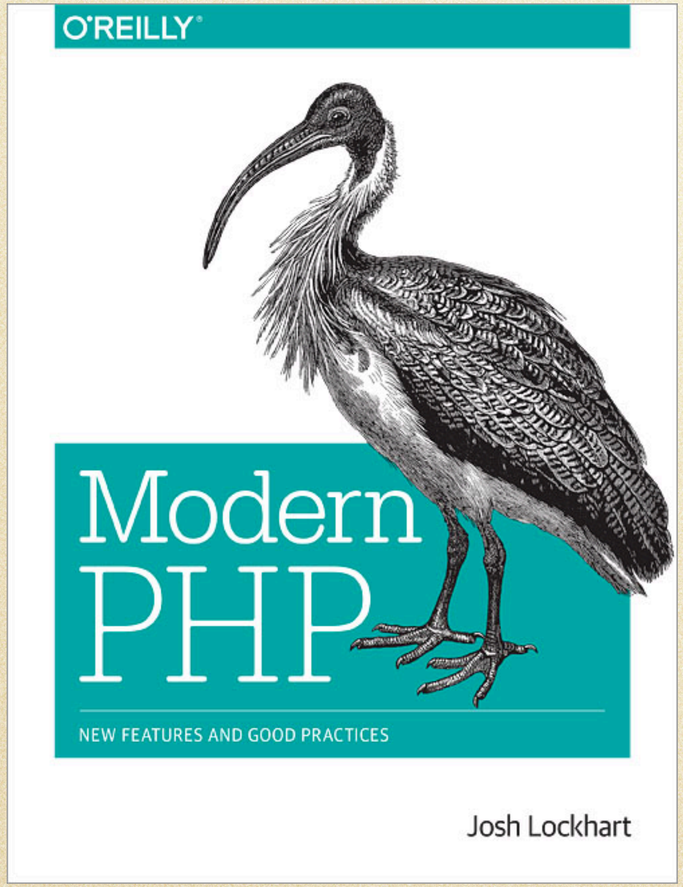
July 8th

Joe Ferguson

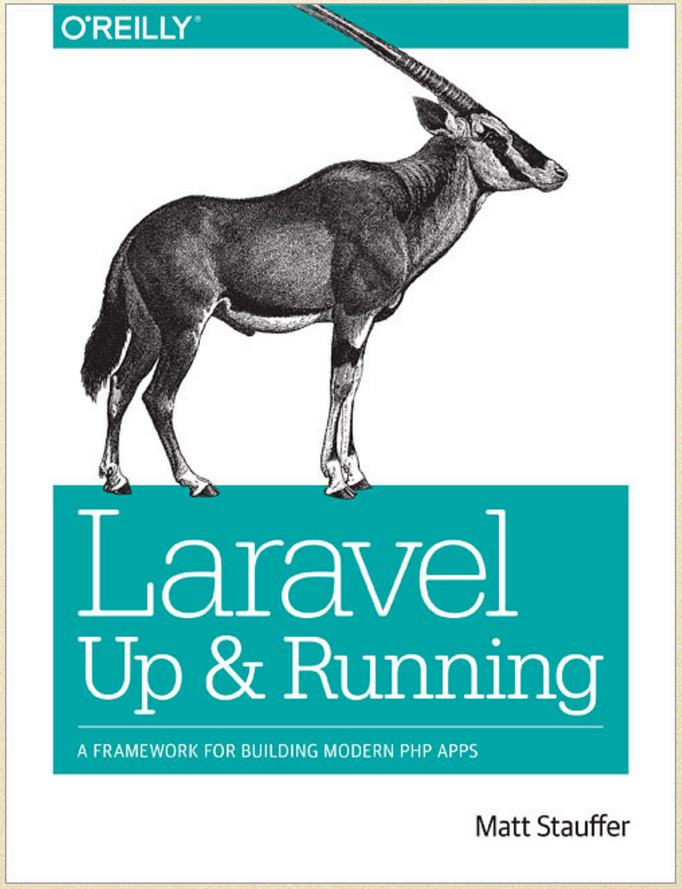
Who Am I?

- Joe Ferguson
- PHP Developer
- Twitter: @JoePFerguson
- Organizer of @MemphisPHP
- @phparch Trainer
- @NomadPHP Lightning Talks
- PHP Mentor

For further reading



Modern PHP - Josh Lockhart



Laravel Up & Running - Matt Stauffer

Brief History of PHP

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

Created in 1994 by Rasmus Lerdorf

First publicly released the source in June 1995

Personal Home Page Construction Kit

PHP/FI

PHP 3.0

PHP 4.0

PHP 5.0

~~PHP 6.0~~

https://www.phproundtable.com/episode/what-happened-to-php-6

PHP 7.0

PHP 7.1

What version should you use?

Mascot

The PHP Ecosystem

Documentation

php Downloads Documentation Get Involved Help Search

Documentation

The PHP Manual is available online in a selection of languages. Please pick a language from the list below.

More information about php.net URL shortcuts by visiting our URL howto page.

Note, that many languages are just under translation, and the untranslated parts are still in English. Also some translated parts might be outdated. The translation teams are open to contributions.

Documentation for PHP 4 has been removed from the manual, but there is archived version still available. For more informations, please read Documentation for PHP 4.

Formats	Destinations
View Online	**English**, Brazilian Portuguese, Chinese (Simplified), French, German, Japanese, Romanian, Russian, Spanish, Turkish
Downloads	For downloadable formats, please visit our documentation downloads page.

More documentation

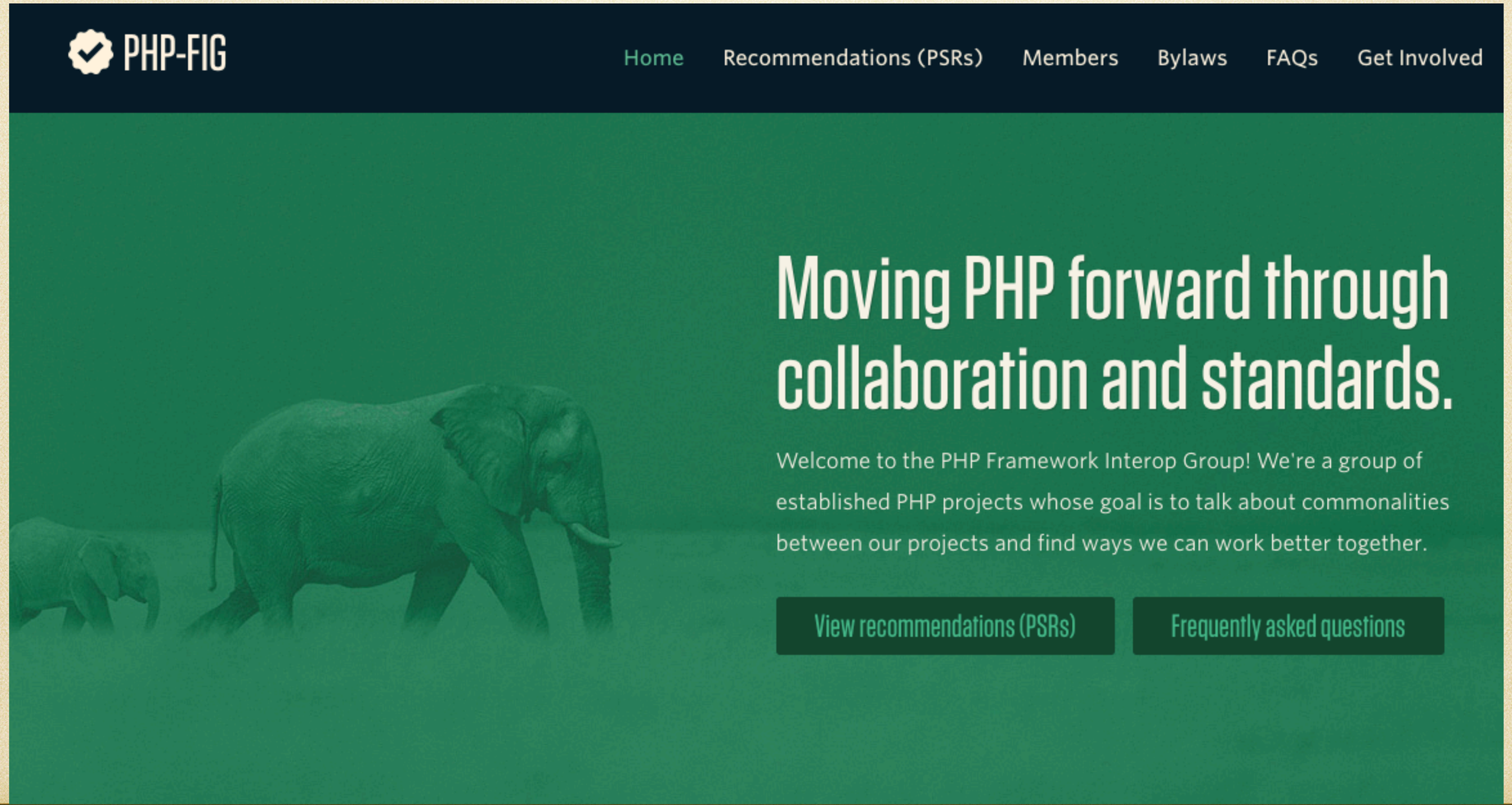
- If you are interested in how the documentation is edited and translated, you should read the Documentation HOWTO.
- PHP-GTK related documentation is hosted on the PHP-GTK website.
- Documentation of PEAR and the various packages can be found on a separate server.
- You can still read a copy of the original PHP/FI 2.0 Manual on our site, which we only host for historical purposes. The same applies to the PHP 3 Manual, and the PHP 4 Manual.

PSR-2

1. Overview

- Code MUST follow a “coding style guide” PSR [PSR-1]
- Code MUST use 4 spaces for indenting, not tabs.
- There MUST NOT be a hard limit on line length; the soft limit MUST be 120 characters; lines SHOULD be 80 characters or less.
- There MUST be one blank line after the `namespace` declaration, and there MUST be one blank line after the block of `use` declarations.
- Opening braces for classes MUST go on the next line, and closing braces MUST go on the next line after the body.
- Opening braces for methods MUST go on the next line, and closing braces MUST go on the next line after the body.
- Visibility MUST be declared on all properties and methods; `abstract` and `final` MUST be declared before the visibility; `static` MUST be declared after the visibility.

PHP Standards Recommendation



PSRs

ACCEPTED

NUM	TITLE	EDITOR	COORDINATOR	SPONSOR
1	Basic Coding Standard	Paul M. Jones	*N/A*	*N/A*
2	Coding Style Guide	Paul M. Jones	*N/A*	*N/A*
3	Logger Interface	Jordi Boggiano	*N/A*	*N/A*
4	Autoloading Standard	Paul M. Jones	Phil Sturgeon	Larry Garfield
6	Caching Interface	Larry Garfield	Paul Dragoonis	Robert Hafner
7	HTTP Message Interface	Matthew Weier O'Phinney	Beau Simensen	Paul M. Jones
13	Hypermedia Links	Larry Garfield	Matthew Weier O'Phinney	Marc Alexander
16	Simple Cache	Paul Dragoonis	Jordi Boggiano	Fabien Potencier

REVIEW

NUM	TITLE	EDITOR	COORDINATOR	SPONSOR
11	Container Interface	Matthieu Napoli, David Négrier	Matthew Weier O'Phinney	Korvin Szanto

DRAFT

NUM	TITLE	EDITOR(S)	COORDINATOR	SPONSOR
5	PHPDoc Standard	Mike van Riel	Vacant	Vacant
8	Huggable Interface	Larry Garfield	Vacant	Vacant

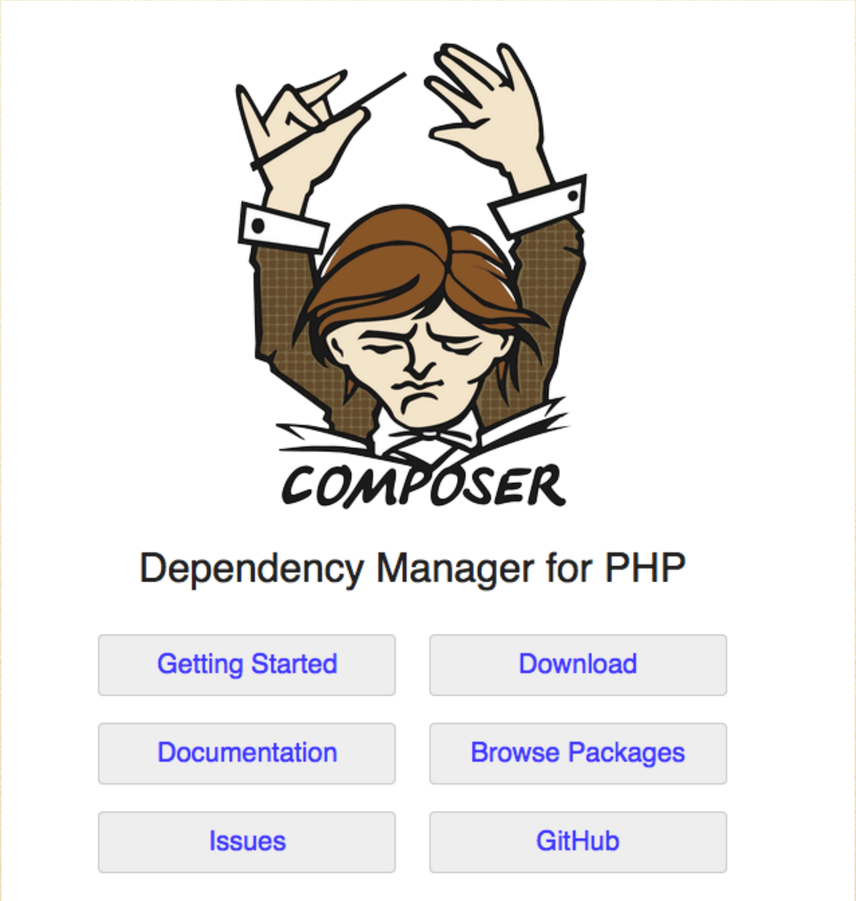
Editors

- Vim
- Nano
- Emacs
- Atom
- Visual Studio Code

Integrated Development Environment (IDE)

- PhpStorm
- Zend Studio
- Netbeans
- Komodo IDE

Composer



https://getcomposer.org/

Packagist

Packagist *The PHP Package Repository*

Browse Submit Create account Sign in

Search packages...

Packagist is the main Composer repository. It aggregates public PHP packages installable with Composer.

Getting Started

Define Your Dependencies

Put a file named *composer.json* at the root of your project, containing your project dependencies:

```
{
    "require": {
        "vendor/package": "1.3.2",
        "vendor/package2": "1.*",
        "vendor/package3": "^2.0.3"
    }
}
```

For more information about packages versions usage, see the composer documentation.

Publishing Packages

Define Your Package

Put a file named *composer.json* at the root of your package, containing this information:

```
{
    "name": "your-vendor-name/package-name",
    "description": "A short description of what your package does",
    "require": {
        "php": "^5.3.3 || ^7.0",
        "another-vendor/package": "1.*"
    }
}
```

This is the strictly minimal information you have to give.

https://packagist.org/

PHPUnit

Home | Getting Started | Documentation | Presentations | Plugins | GitHub

Welcome to PHPUnit!

PHPUnit is a programmer-oriented testing framework for PHP.
It is an instance of the xUnit architecture for unit testing frameworks.

Take the first steps | Read the documentation | Learn from presentations | Register for training | Say "Thank you!"

Current Stable Release

PHPUnit 6.2 is the **current stable release** series.
It became *stable* on June 2, 2017.
Support for PHPUnit 6 ends on February 8, 2019.

You can find out what is new in PHPUnit 6.2 in the release announcement.

PHPUnit 6.2 is supported on PHP 7.0 and PHP 7.1.

Download PHPUnit 6.2
(current stable release)

Old Stable Release

PHPUnit 5.7 is the **old stable release** series.
It became *stable* on December 2, 2016.
Support for PHPUnit 5 ends on February 2, 2018.

You can find out what was new in PHPUnit 5.7 in the release announcement.

PHPUnit 5.7 is supported on PHP 5.6, PHP 7.0, and PHP 7.1.

Download PHPUnit 5.7
(old stable release)

No Longer Supported

PHPUnit 4.8 is **no longer supported**.
It became *stable* on August 7, 2015.
Support for PHPUnit 4 ended on February 3, 2017.

You can find out what was new in PHPUnit 4.8 in the release announcement.

PHPUnit 4.8 was supported on PHP 5.3 – 5.6.

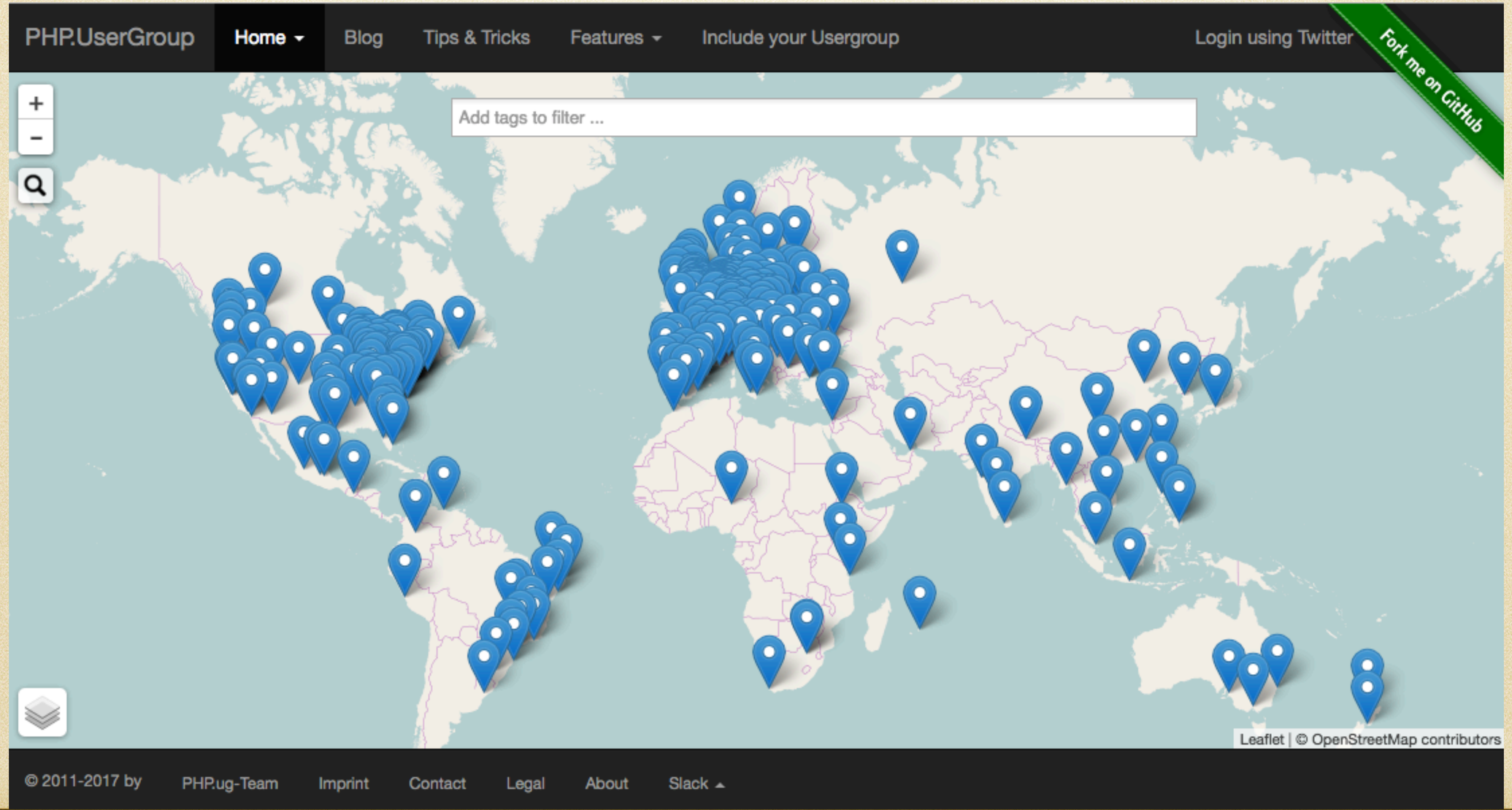
Download PHPUnit 4.8
(no longer supported)

PHPtheRightWay.com

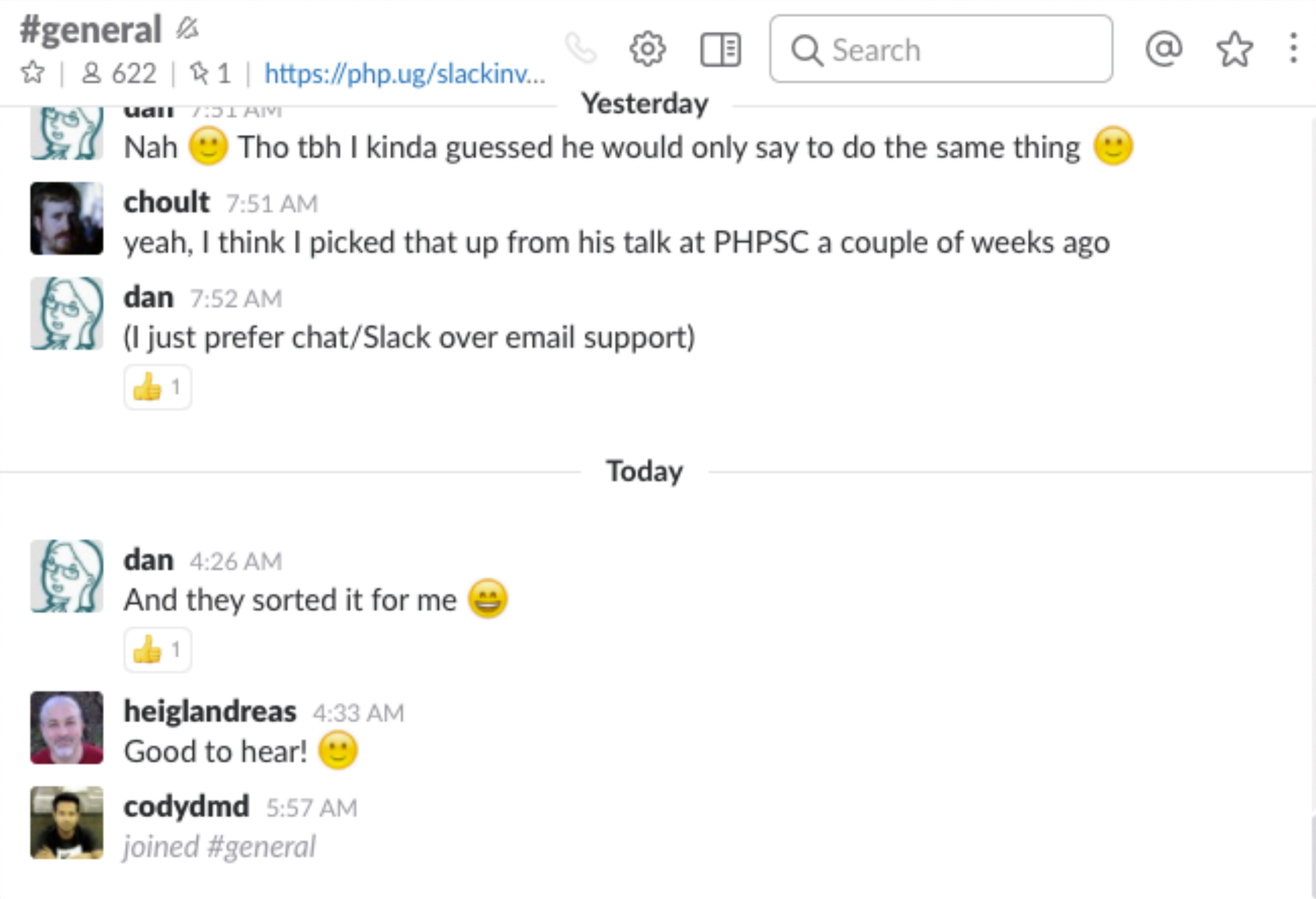
Community Resources

MemphisPHP.org

php.ug


PHP.UserGroup
Home
Blog
Tips & Tricks
Features
Include your Usergroup
Login using Twitter
Fork me on GitHub
Add tags to filter ...
Leaflet | © OpenStreetMap contributors
© 2011-2017 by
PHP.ug-Team
Imprint
Contact
Legal
About
Slack

Slack Group


#general
622 | 1 | https://php.ug/slackinv...
Search
Yesterday
Nah Tho tbh I kinda guessed he would only say to do the same thing
choult 7:51 AM
yeah, I think I picked that up from his talk at PHPSC a couple of weeks ago
dan 7:52 AM
(I just prefer chat/Slack over email support)
1
Today
dan 4:26 AM
And they sorted it for me
1
heiglandreas 4:33 AM
Good to hear!
codydmd 5:57 AM
joined #general

IRC #phpc on Freenode

Status #phpc

#phpc: Open source. Open community. We are dedicated to building and enriching the PHP community. Join us! • Join ##php for help. • https://phpc.ws • https://phpc.ws/twtr-phpc • https://phpc.ws/git-phpc

```
[11:23] == New [4b42f56f@gateway/web/freenode/ip.75.66.245.111] has joined #phpc
[11:23] -ChanServ- [#phpc] Welcome to #phpc! We are dedicated to building and enriching the PHP community.
 We are a community channel and NOT a help channel. For PHP help, try ##php. We require
 registered/identified nicks. If someone has trouble joining, point them to http://phpc.ws/nicksetup
```

@ChanServ
adsr
afx237
ajt
alle
AllenJB
andrewcassell
anomander
ArthurC_
ashleyhindle
bcremer
bear`
Bennish
Beryllium
biberu
BigE
Bilge-
bjsnider
caffeinatedcode
chasepeeler
Cheez
chxd
cythrawll

chat here! you can also use commands, like /JOIN or /HELP

https://webchat.freenode.net/?channels=#phpc

Social Media #phpc

Trask @matthewtrask · Jun 18
Happy Father's Day to all the dads of the php community! #phpc
9

Brian Retterer @bretterer · Jun 22
Can I run something like `npm install` automatically when a user does a `composer require` or `install` of my package? #phpc
1

Glasgow PHP @glasgowphp · 24m
"Go 100% code coverage or go home"
Which way are you going?
Join us next week to discuss!
Rsvp and more info @ glasgowphp.co.uk
#phpc
3

memtechEvents and 1 other Retweeted
Memphis PHP @MemphisPHP · Jun 16
Come learn something new about PHP at the monthly #phpc meetup!
ow.ly/OWbJ30cxuAh
3 1

Joe P Ferguson @JoePFerguson · Jun 30
Using Homestead with CakePHP: joeferguson.me/using-homestea… #phpc #cakephp
9 5

7PHP :: Khayrattee @7php · 4h
Dear #elePHPant Spread the word about @funkatron initiatives!

#phpc #php #osmi #Mentalhealth #mentalhealthawareness #MentalHealthMatters

Ed Finkler @funkatron
I need your help. Together We can save lives. Together we can change our industry. Please help and share:

Frank de Jonge liked
Beau D. Simensen @beausimensen · Jun 20
Hey, all! If you have a chance yet today, submit talks to #Symfony Live! San Francisco!

#CFP #PHPC

sanfrancisco2017.live.symfony.com/speakers
2 1

PHP Necromancer liked
Scotland PHP @scotlandphp · Jun 14
After our sold-out 2016 event, we're back, bigger and better than ever @eicc in #Edinburgh 4th Nov! conference.scotlandphp.co.uk/tickets #scotphp17 #phpc

22 9

Mark Railton @railto · Jun 18
So, I made a thing - packagist.org/packages/railt… #php #phpc
1 1

Memphis PHP @MemphisPHP · Jun 25
Join us for the monthly #Memphis #phpc meet up! ow.ly/OWbJ30cxuAh

phpmentoring.org

PHP Mentoring | Guidelines | Why Mentoring | Search Mentors | Join us on IRC | Login

Our Vision

Who?

We are a formal, personal, long term, peer to peer mentorship organization focused on creating networks of skilled developers from all walks of life.

We are PHP developers first and foremost but that is not all we do, nor is it the only skill we intend to pass on to others.

We are mentors and apprentices, teachers and students, coaches, counselors, and friends. We're not in this for profit but for the end result, a strong community of talented developers doing some fabulous work.

We give back to the community as much as we take, we build up not tear down, and above all we believe in "play nice" and "code well".

What?

Mentorship is a personal developmental relationship in which a more experienced or more knowledgeable person helps to guide a less experienced or less knowledgeable person.

Mentorship is more than just answering questions or providing help, it's about learning, communication, and interaction.

There are many different types of mentorships and mentorship programs. We have chosen a specific set of facets that describe the mentorship relationships for our program.

There are mentorship organizations which have very formal procedures and there are also much more informal mentorships. Because we have both rules for relationships and procedures for mentorships this is a formal organization, even though the relationships themselves are informal.

Not every mentorship relationship needs to be, or should be, the kind where you invite them to your wedding, but we do focus more on personal involvement between two people, which makes our organization more personal than professional.

Although short term, intensive mentorships can be useful for specific skills. We feel that the end result of a good mentorship is a healthy career in the long term. This means our mentorships should be a rich and ever changing career-long experience.

Although group mentorships work well at the beginning of a career, we feel the best "bang for your buck" comes from a face-to-face relationship.

NomadPHP.com

Conferences

- php[tek] - tek.phparch.com
- php[world] - world.phparch.com
- ZendCon - zendcon.com
- PNWPHP - pnwphp.com
- SunshinePHP - sunshinephp.com

Podcasts

- phproundtable.com
- VoicesOfThEelephpant.com
- magetalk.com
- podcast.larachat.co

php[architect] Magazine

https://www.phparch.com

Basic Intro To Cloud 9

Getting Started with PHP

PHP <3s $

PHP <3s ;

PHP <3s SPACES

Variables and Quotes

```php
<?php

$variable = 'cat';
$variable_two = 'dog';

echo "$variable is cat<br>";
echo "$variable_two is dog";
```

cat is cat
dog is dog

Math!

```php
<?php

$fruits = 12;
$vegetables = 4;
$total = $fruits + $vegetables;

echo "We have $fruits fruit and $vegetables vegetables.<BR>";
echo "We have $total items.";
```

We have 12 fruit and 4 vegetables.
We have 16 items.

Loosely Typed Language

```php
<?php

$variable = 'cat';
$variable_two = 'dog';
$varible_three = cat;
$variable_four = 5;

echo "$variable is cat<br>";
echo "$variable_two is dog<br>";
echo "$varible_three is cat<br>";
echo "$variable_four is 5<br>";
```

cat is cat
dog is dog
cat is cat
5 is 5

String Concatenation

```php
<?php

$greeting = 'Hello';
$name = 'Joe';
echo $greeting . ', ' . $name;

```

Hello, Joe

Arrays

```php
<?php

$animals = [];

$animals[] = 'cats';
$animals[] = 'dogs';
$animals[] = 'birds';

echo "<pre>";
var_dump($animals);
```

```
array(3) {
  [0] =>
  string(4) "cats"
  [1] =>
  string(4) "dogs"
  [2] =>
  string(5) "birds"
}
```

Printing Item from an Array

```php
<?php

$animals = [];

$animals[] = 'cats';
$animals[] = 'dogs';
$animals[] = 'birds';
asort($animals);

echo "<pre>";
var_dump($animals[2]);
```

```
string(5) "birds"
```

Array methods

```php
<?php

$animals = [];

$animals[] = 'cats';
$animals[] = 'dogs';
$animals[] = 'birds';
asort($animals);

echo "<pre>";
var_dump($animals);
```

```
array(3) {
  [2] =>
  string(5) "birds"
  [0] =>
  string(4) "cats"
  [1] =>
  string(4) "dogs"
}
```

Functions

```php
<?php

function getAnimals() {
    $animals = [];
    $animals[] = 'cats';
    $animals[] = 'dogs';
    $animals[] = 'birds';
    asort($animals);

    return $animals;
}

echo "<pre>";
var_dump(getAnimals());
```

```
array(3) {
  [2] =>
  string(5) "birds"
  [0] =>
  string(4) "cats"
  [1] =>
  string(4) "dogs"
}
```

Classes

```php
<?php

class Animals
{
    public function getAnimals() {
        $animals = [];
        $animals[] = 'cats';
        $animals[] = 'dogs';
        $animals[] = 'birds';
        asort($animals);

        echo "<pre>";
        var_dump($animals);
    }
}

$a = new Animals();
$a->getAnimals();
```

```
array(3) {
  [2] =>
  string(5) "birds"
  [0] =>
  string(4) "cats"
  [1] =>
  string(4) "dogs"
}
```

HTML and PHP

```
1  <html>
2      <head>
3          <link rel="stylesheet" href="https://
4          <script src="https://code.jquery.com/
5          <script src="https://cdnjs.cloudflare
6          <script src="https://maxcdn.bootstrap
7          <title>
8              <?php echo "HTML & PHP"; ?>
9          </title>
10     </head>
11     <body>
12             <nav class="navbar navbar-toggleal
13       <button class="navbar-toggler navbar-to
14         <span class="navbar-toggler-icon"></s
15       </button>
```

```
1  <html>
2      <head>
3          <link rel="stylesheet" href="htt
4          <script src="https://code.jquery
5          <script src="https://cdnjs.cloud
6          <script src="https://maxcdn.boot
7          <title>
8              HTML & PHP          </title>
9      </head>
10     <body>
```

HTML and PHP

```
58    <h2>Animals</h2>
59    <?php
60      $animals = [];
61      $animals[] = 'cats';
62      $animals[] = 'dogs';
63      $animals[] = 'birds';
64      asort($animals);
65    ?>
66    <ul>
67    <?php
68      foreach($animals as $animal) {
69    ?>
70        <li>
71            <?php echo $animal; ?>
72        </li>
73    <?php
74      }
75    ?>
76    </ul>
```

Animals

- birds
- cats
- dogs

Exercise 1: index.php 20 mins

- Create an index.php file
- Add some basic HTML
- Use PHP to echo out the title of your site
- Create an array of links to your social media profiles
  - Use PHP to loop over the array to create HTML list w/ links

Super Globals

- $_SERVER
- $_GET
- $_POST
- $_FILES
- $_COOKIE
- $_SESSION
- $_REQUEST
- $_ENV

$_SERVER

```
array(38) {
  ["HTTP_HOST"]=>
  string(36) "test-project-joepferguson.c9users.io"
  ["HTTP_UPGRADE_INSECURE_REQUESTS"]=>
  string(1) "1"
  ["HTTP_USER_AGENT"]=>
  string(121) "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/59.0.3071.115 Safar
  ["HTTP_ACCEPT"]=>
  string(85) "text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8"
  ["HTTP_DNT"]=>
  string(1) "1"
  ["HTTP_REFERER"]=>
  string(45) "https://test-project-joepferguson.c9users.io/"
  ["HTTP_ACCEPT_ENCODING"]=>
  string(17) "gzip, deflate, br"
  ["HTTP_ACCEPT_LANGUAGE"]=>
  string(14) "en-US,en;q=0.8"
  ["HTTP_COOKIE"]=>
  string(0) ""
  ["HTTP_X_FORWARDED_PROTO"]=>
  string(5) "https"
  ["HTTP_X_FORWARDED_PORT"]=>
  string(3) "443"
  ["HTTP_X_REGION"]=>
  string(3) "usw"
  ["HTTP_X_FORWARDED_FOR"]=>
  string(13) "75.66.245.111"
  ["HTTP_CONNECTION"]=>
  string(10) "keep-alive"
  ["PATH"]=>
  string(375) "/home/ubuntu/.nvm/versions/node/v4.7.3/bin:/usr/local/rvm/gems/ruby-2.3.0/bin:/usr/local/rvm/gems/ruby-2.3.0@glob
  ["LD_LIBRARY_PATH"]=>
  string(15) "~/.c9/local/lib"
  ["SERVER_SIGNATURE"]=>
  string(97) "
Apache/2.4.7 (Ubuntu) Server at test-project-joepferguson.c9users.io Port 443
```

If statements

```
21  <?php
22  $protocol = 'https';
23  if ($_SERVER['SERVER_PORT'] === 80) {
24      $protocol = 'http';
25  }
26  ?>
```

Why Not use ELSE?

```php
<?php
if ($_SERVER['SERVER_PORT'] === 80) {
    $protocol = 'http';
} else {
    $protocol = 'https';
}
?>
```

```php
<?php
$protocol = 'https';
if ($_SERVER['SERVER_PORT'] === 80) {
    $protocol = 'http';
}
?>
```

```php
<?php
if ($_SERVER['SERVER_PORT'] === 80) {
    $protocol = 'http';
} else {
    $protocol = 'https';
}
?>
```

Exercise 2: index.php 20 mins

- Build a link to the home page of your site using $_SERVER
  - Remember string concatenation with a period
  - Remember accessing arrays $_SERVER[‘SERVER_PORT’]
    - You’ll need SERVER_PORT, HTTP_HOST

Query Parameters

- file.php?name=Joe
- file.php?first=Joe&last=Ferguson
- file.php?twitter=joepferguson

Query Parameters

?name=Joe

```
64  <?php
65  echo '<pre>';
66  var_dump($_REQUEST);
67  ?>
```

```
array(1) {
  ["name"]=>
  string(3) "Joe"
}
```

Query Parameters

?name=Joe

```
64  <?php
65  echo '<pre>';
66  var_dump($_REQUEST['name']);
67  ?>
```

```
string(3) "Joe"
```

Query Parameters

?

```
64  <?php
65  echo '<pre>';
66  var_dump($_REQUEST['name']);
67  ?>
```

NULL

Query Parameters

?name=Joe

```
64 <?php
65     $greeting = "Hello ";
66     if(!is_null($_REQUEST['name'])) {
67         echo $greeting . $_REQUEST['name'];
68     }
69 ?>
```

Hello Joe

Query Parameters

?

```
64 <?php
65     $greeting = "Hello ";
66     if(!is_null($_REQUEST['name'])) {
67         echo $greeting . $_REQUEST['name'];
68     }
69 ?>
```

Exercise 3: index.php 15 mins

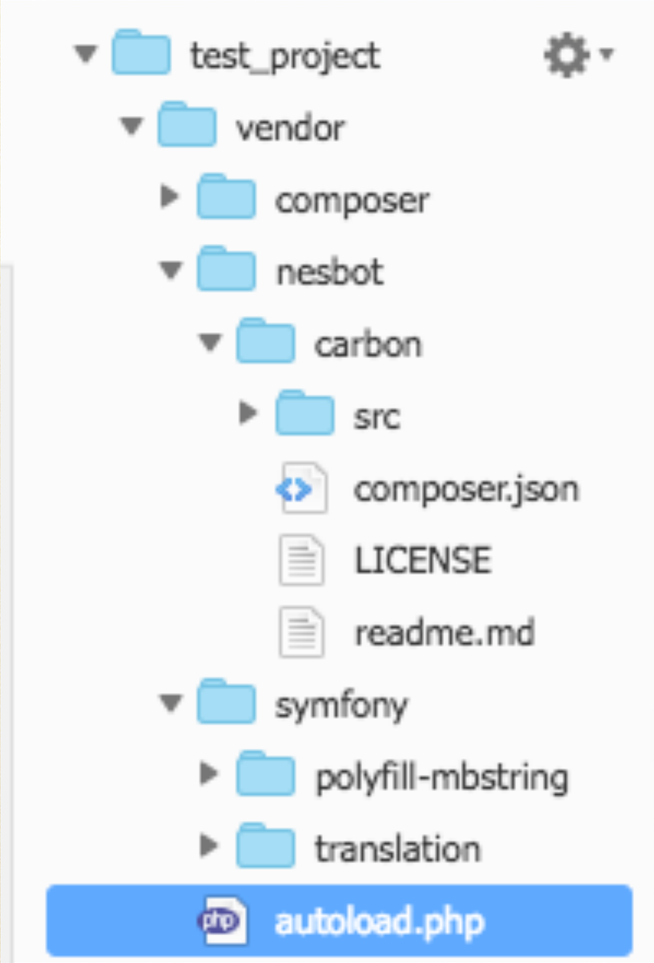
- Build a Greeting on your homepage to greet a user by name
  - Use ?name= and $_REQUEST[‘name’]
  - If no name is in the query string, do not output a greeting
  - Remember is_null() and using ! to reverse the outcome

Reusing other’s code with Composer

composer require nesbot/carbon

```
joepferguson:~/workspace $ composer require nesbot/carbon
Using version ^1.22 for nesbot/carbon
./composer.json has been created
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Installing symfony/polyfill-mbstring (v1.4.0) Downloading: 100%
  - Installing symfony/translation (v3.3.4) Downloading: 100%
  - Installing nesbot/carbon (1.22.1) Downloading: 100%
symfony/translation suggests installing psr/log (To use logging capability in translator)
symfony/translation suggests installing symfony/config ()
symfony/translation suggests installing symfony/yaml ()
Writing lock file
Generating autoload files
joepferguson:~/workspace $
```

vendor/ folder



This is the PHP version of node_modules
Never ever version control this folder

Autoloading

```php
<?php

require __DIR__ . '/vendor/autoload.php';

$date = \Carbon\Carbon::now();

echo '<pre>';
var_dump($date);

```

```
object(Carbon\Carbon)#3 (3) {
  ["date"]=>
  string(26) "2017-07-07 14:12:16.385532"
  ["timezone_type"]=>
  int(3)
  ["timezone"]=>
  string(3) "UTC"
}
```

Print a date string

```php
<?php

require __DIR__ . '/vendor/autoload.php';

$date = \Carbon\Carbon::now();

echo '<pre>';
var_dump($date->toDateTimeString());

```

```
string(19) "2017-07-07 14:16:51"
```

Print a date string

```php
<?php

require __DIR__ . '/vendor/autoload.php';

$date = \Carbon\Carbon::now('America/Chicago');

echo '<pre>';
var_dump($date->toDateTimeString());

```

```
string(19) "2017-07-07 09:19:58"
```

Your server should always be set to UTC/GMT

Exercise 4: index.php 20 mins

- Use Composer to install nesbot/carbon
  - composer install nesbot/carbon
- Create a date time string in the Central timezone
  - \Carbon\Carbon::now(‘America/Chicago')
  - $date->toDateTimeString()

Databases

Create a table

```php
<?php

$table = 'names';
try {
    $db = new PDO("mysql:dbname=homestead;host=localhost", "homestead", "secret" );
    $db->setAttribute( PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION );//Error Handling
    $sql ="CREATE table $table(
    id INT( 11 ) AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR( 250 ) NOT NULL);";

    $db->exec($sql);
    print("Created $table Table.\n");

} catch(PDOException $e) {
    echo $e->getMessage();//Remove or change message in production code
}
```

Inspect the Database

```
mysql> show tables;
+---------------------+
| Tables_in_homestead |
+---------------------+
| names               |
+---------------------+
1 row in set (0.00 sec)

mysql> describe names;
+-------+--------------+------+-----+---------+----------------+
| Field | Type         | Null | Key | Default | Extra          |
+-------+--------------+------+-----+---------+----------------+
| id    | int(11)      | NO   | PRI | NULL    | auto_increment |
| name  | varchar(250) | NO   |     | NULL    |                |
+-------+--------------+------+-----+---------+----------------+
2 rows in set (0.00 sec)

mysql>
```

Insert Data into a table

```php
<?php

$dbhost = "localhost";
$dbname = "homestead";
$dbusername = "homestead";
$dbpassword = "secret";

$link = new PDO("mysql:host=$dbhost;dbname=$dbname", $dbusername, $dbpassword);

$statement = $link->prepare(
    "INSERT INTO names(name) VALUES(:name)"
);

$statement->execute([
    "name" => "Bob",
]);
```

select * from names;

```
mysql> select * from names;
Empty set (0.01 sec)

mysql> select * from names;
+----+------+
| id | name |
+----+------+
|  1 | Bob  |
+----+------+
1 row in set (0.00 sec)

mysql>
```

SELECT * FROM names

```
8  $link = new PDO("mysql:host=$dbhost;dbname=$dbname", $dbu
9
10 $statement = $link->prepare(
11     "SELECT * FROM names;"
12 );
13 $statement->execute();
14 $results = $statement->fetchAll();
15
16 echo '<pre>';
17 var_dump($results);
```

```
array(1) {
  [0]=>
  array(4) {
    ["id"]=>
    string(1) "1"
    [0]=>
    string(1) "1"
    ["name"]=>
    string(3) "Bob"
    [1]=>
    string(3) "Bob"
  }
}
```

SELECT * FROM names

```
18 <ul>
19     <?php
20     foreach($results as $result) {
21         ?>
22         <li><?php echo $result['name']; ?></li>
23         <?php
24     }
25     ?>
26 </ul>
```

- Bob

Exercise 5: db.php 30 mins

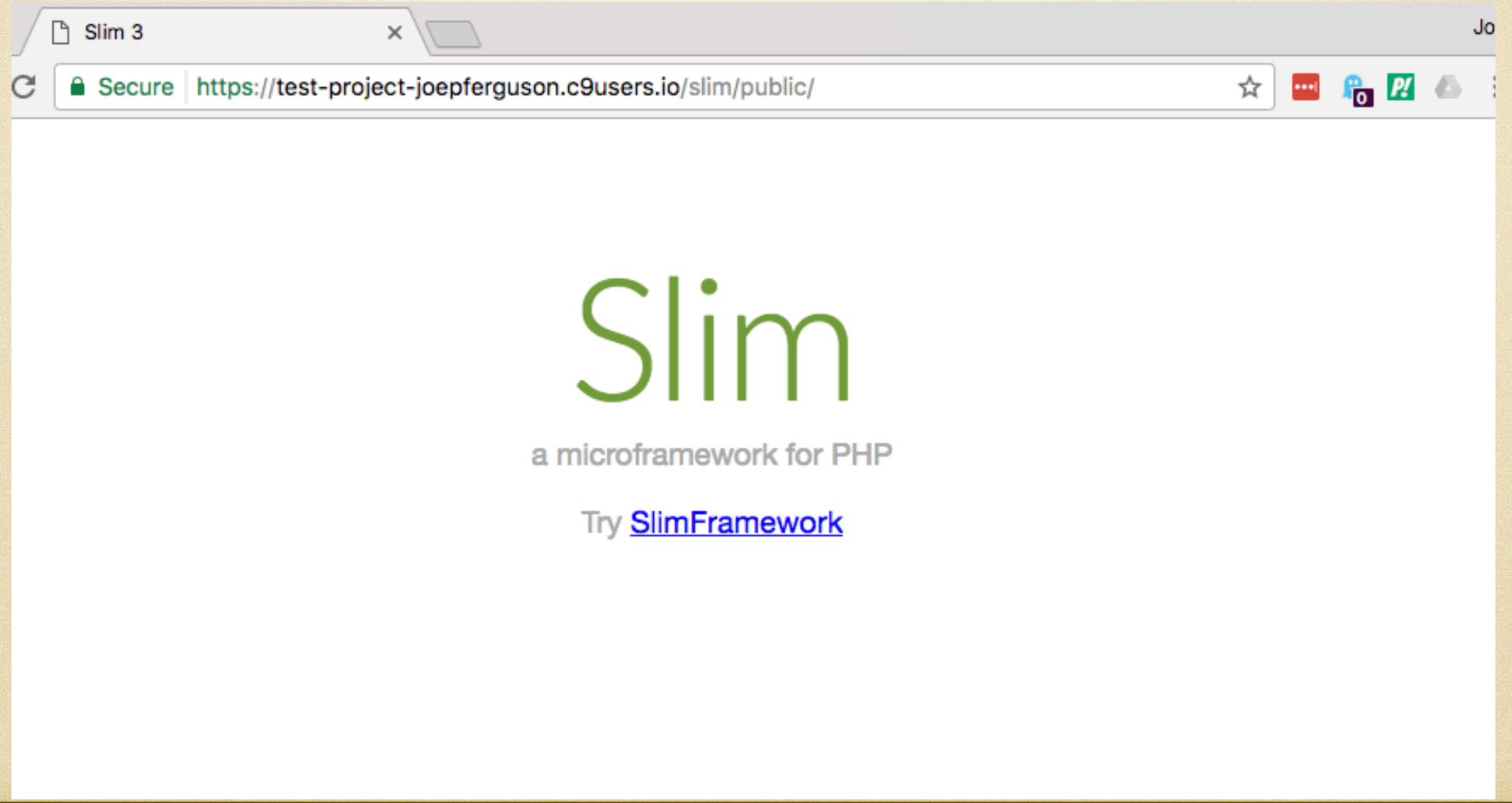
- create_table.php
  - Use PDO to create a table in the Homestead DB
- add_name.php
  - Use PDO to add one or more names to your names table
- get_names.php
  - Fetch all the names from the DB and display them

Modern Frameworks

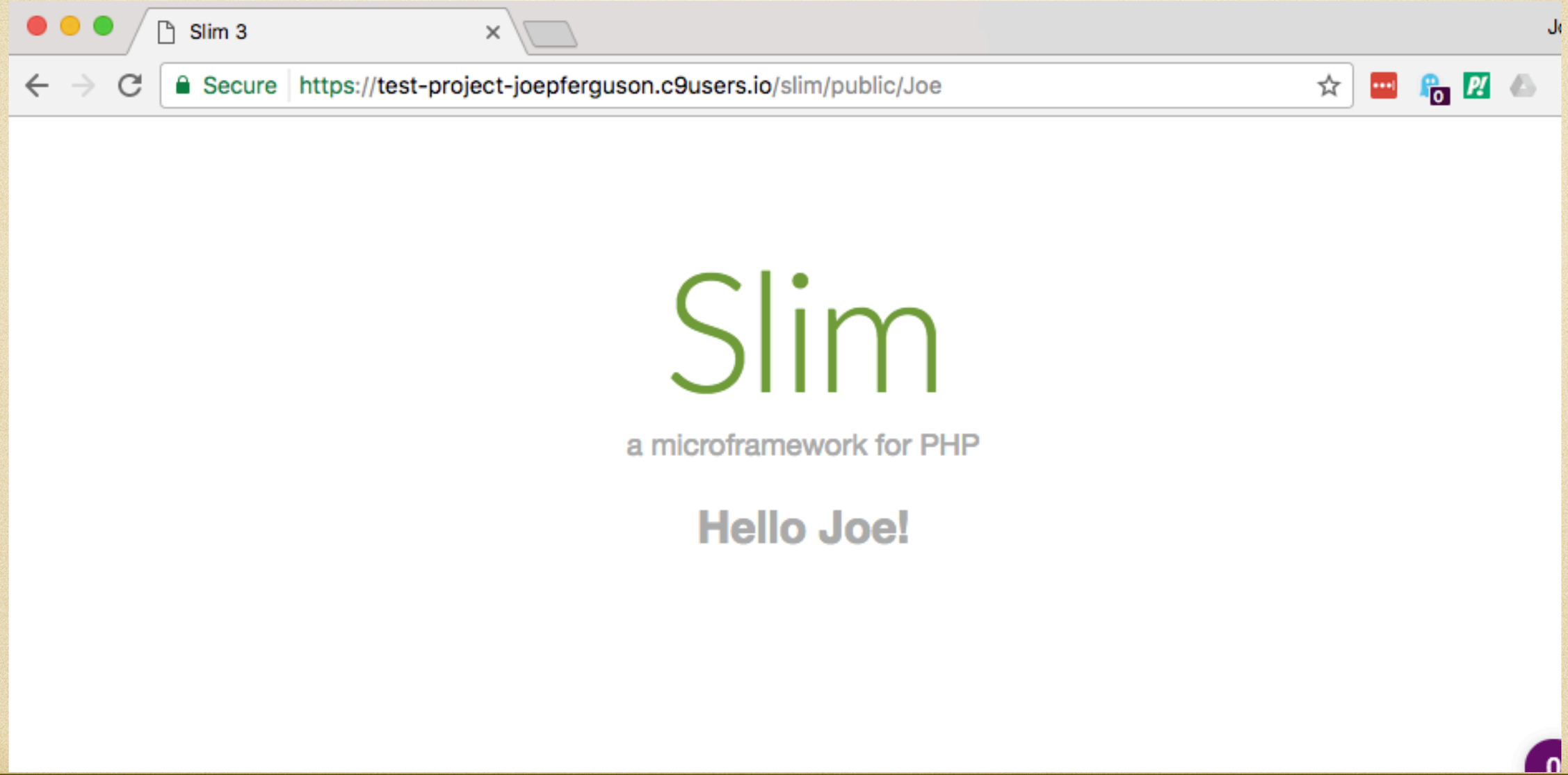
composer create-project slim/slim-skeleton slim

```
joepferguson:~/workspace $ composer create-project slim/slim-skeleton slim
Installing slim/slim-skeleton (3.1.2)
  - Installing slim/slim-skeleton (3.1.2) Downloading: 100%
Created project in slim
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 34 installs, 0 updates, 0 removals
  - Installing psr/container (1.0.0) Downloading: 100%
  - Installing container-interop/container-interop (1.2.0) Downloading: 100%
  - Installing nikic/fast-route (v1.2.0) Downloading: 100%
  - Installing psr/http-message (1.0.1) Downloading: 100%
  - Installing pimple/pimple (v3.1.0) Downloading: 100%
  - Installing slim/slim (3.8.1) Downloading: 100%
  - Installing slim/php-view (2.2.0) Downloading: 100%
  - Installing psr/log (1.0.2) Downloading: 100%
  - Installing monolog/monolog (1.23.0) Downloading: 100%
  - Installing symfony/yaml (v3.3.4) Downloading: 100%
  - Installing sebastian/version (2.0.1) Downloading: 100%
  - Installing sebastian/resource-operations (1.0.0) Downloading: 100%
  - Installing sebastian/recursion-context (2.0.0) Downloading: 100%
  - Installing sebastian/object-enumerator (2.0.1) Downloading: 100%
  - Installing sebastian/global-state (1.1.1) Downloading: 100%
  - Installing sebastian/exporter (2.0.0) Downloading: 100%
  - Installing sebastian/environment (2.0.0) Downloading: 100%
  - Installing sebastian/diff (1.4.3) Downloading: 100%
  - Installing sebastian/comparator (1.2.4) Downloading: 100%
  - Installing doctrine/instantiator (1.0.5) Downloading: 100%
  - Installing phpunit/php-text-template (1.2.1) Downloading: 100%
  - Installing phpunit/phpunit-mock-objects (3.4.4) Downloading: 100%
  - Installing phpunit/php-timer (1.0.9) Downloading: 100%
  - Installing phpunit/php-file-iterator (1.4.2) Downloading: 100%
  - Installing sebastian/code-unit-reverse-lookup (1.0.1) Downloading: 100%
```

slim/public


Slim 3
Secure
https://test-project-joepferguson.c9users.io/slim/public/
Slim
a microframework for PHP
Try SlimFramework

slim/public/Joe



slim/src/routes.php

```php
<?php
// Routes

$app->get('/[{name}]', function ($request, $response, $args) {
    // Sample log message
    $this->logger->info("Slim-Skeleton '/' route");

    // Render index view
    return $this->renderer->render($response, 'index.phtml', $args);
});

```

slim/templates/index.phtml

```
28      <body>
29          <h1>Slim</h1>
30          <div>a microframework for PHP</div>
31
32          <?php if (isset($name)) : ?>
33              <h2>Hello <?= htmlspecialchars($name); ?>!</h2>
34          <?php else: ?>
35              <p>Try <a href="http://www.slimframework.com">SlimFramework</a>
36          <?php endif; ?>
37      </body>
38  </html>
```

Slim is a Microframework

Microframeworks

- SlimPHP
- Zend Expressive
- Silex

Full Stack Frameworks

- Laravel
- CakePHP
- Symfony
- Zend Framework

What exactly is Laravel?

Expressive, beautiful syntax.

Value elegance, simplicity, and readability? You'll fit right in. Laravel is designed for people just like you. If you need help getting started, check out Laracasts and our great documentation.

```
1  class Purchase implements ShouldQueue
2  {
3
4      /**
5       * Purchase a new podcast.
6       */
7       public function handle(Repository $rep
8       {
```

```
~/Apps $ php artisan make:migration create_users_t
Migration created successfully!

~/Apps $ php artisan migrate --seed
Migrated: 2015_01_12_000000_create_users_table
Migrated: 2015_01_12_100000_create_password_resets_
Migrated: 2015_01_13_162500_create_projects_table
Migrated: 2015_01_13_162508_create_servers_table
```

Tailored for your team.

Whether you're a solo developer or a 20 person team, Laravel is a breath of fresh air. Keep everyone in sync using Laravel's database agnostic migrations and schema builder.

Modern toolkit. Pinch of magic.

An amazing ORM, painless routing, powerful queue library, and simple authentication give you the tools you need for modern, maintainable PHP. We sweat the small stuff to help you deliver amazing applications.

```
1  Route::resource('photos', 'PhotoController'
2
3  /**
4   * Retrieve A User...
5   */
6  Route::get('/user/{user}', function(App\Use
7  {
8      return $user;
```

Laravel Ecosystem

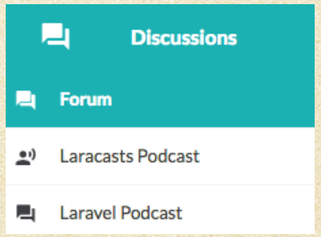
Tools

Laravel Homestead

Laravel Cashier

Framework

Learning & Community



Quick note on versions

- **5.1 LTS** bug fixes for 2 years, security fixes for 3 years
- **Non LTS**: bug fixes for 6 months, security fixes for 1 year

*5.1 is currently the only **LTS** version*

5.5 Will be the next LTS

https://twitter.com/laravelphp/status/833710294446833664

Which version should you use?

59

Laravel 5.5 Will Be The Next LTS Release (laravel-news.com)

submitted 1 month ago by StandNTroll

26 comments share save hide give gold report hide all child comments

sorted by: new

you are viewing a single comment's thread.
view the rest of the comments → view the full context →

[–] utotwel [+1] Created Laravel 29 points 1 month ago

I do think LTS is generally a bad idea for the vast majority of products. However, some people can't do a project on Laravel at all for some clients unless Laravel has an LTS. I think that's stupid, but it's just the reality of things right now. Some companies have some kind of formal process where any adopted framework must have an LTS. If this helps those people use Laravel for those projects then so be it I guess.

I would still recommend they try their hardest to educate the client on always just using the latest version.

permalink source embed save save-RES parent report give gold reply hide child comments

https://www.reddit.com/r/laravel/comments/5v5mo8/laravel_55_will_be_the_next_lts_release/ddzwwf9/

LaravelShift.com

SHIFT

The **automated** way to **upgrade Laravel** projects.

How it works

Sign In

Sign in using your GitHub, Bitbucket, or GitLab account so Shift can quickly access your Laravel application.

Purchase a Shift

Specify the Git repository and branch of the Laravel application you want upgrade during checkout.

Review Pull Request

Review the pull request Shift creates so you can perform any additional changes and merge when you're ready.

Getting Laravel

```
┌─(halo@Joes-MacBook-Pro.local)(~)──────────────────────────────
└─(10:28:27)─ composer global require "laravel/installer"
Changed current directory to /Users/halo/.composer
Using version ^1.3 for laravel/installer
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Generating autoload files
```

composer global require “laravel/installer”

Installing Laravel

```
┌(joferguson16@us164916)(~/PhpstormProjects)
└(19:41:42)─ laravel new quickstart-basic-5.4
Crafting application...
Loading composer repositories with package information
Installing dependencies (including require-dev) from lock file
Package operations: 59 installs, 0 updates, 0 removals
  - Installing doctrine/inflector (v1.1.0): Downloading (100%)
  - Installing erusev/parsedown (1.6.2): Loading from cache
  - Installing jakub-onderka/php-console-color (0.1): Downloading (100%)
  - Installing symfony/polyfill-mbstring (v1.3.0): Loading from cache
  - Installing symfony/var-dumper (v3.2.7): Loading from cache
  - Installing psr/log (1.0.2): Loading from cache
  - Installing symfony/debug (v3.2.7): Loading from cache
  - Installing symfony/console (v3.2.7): Loading from cache
  - Installing nikic/php-parser (v3.0.5): Loading from cache
  - Installing jakub-onderka/php-console-highlighter (v0.3.2): Downloading (100%)
```

laravel new quickstart-basic-5.4

Install via Composer

```
┌─(joferguson16@us164916)(~/PhpstormProjects)
└─(19:42:40)─ composer create-project --prefer-dist laravel/laravel quickstart-5.4
Installing laravel/laravel (v5.4.16)
  - Installing laravel/laravel (v5.4.16): Downloading (100%)
Created project in quickstart-5.4
> php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 59 installs, 0 updates, 0 removals
  - Installing symfony/polyfill-mbstring (v1.3.0): Loading from cache
  - Installing symfony/var-dumper (v3.2.7): Loading from cache
  - Installing jakub-onderka/php-console-color (0.1): Loading from cache
  - Installing jakub-onderka/php-console-highlighter (v0.3.2): Loading from cache
  - Installing dnoegel/php-xdg-base-dir (0.1): Loading from cache
  - Installing nikic/php-parser (v3.0.5): Loading from cache
  - Installing psr/log (1.0.2): Loading from cache
  - Installing symfony/debug (v3.2.7): Loading from cache
  - Installing symfony/console (v3.2.7): Loading from cache
  - Installing psy/psysh (v0.8.3): Loading from cache
  - Installing vlucas/phpdotenv (v2.4.0): Loading from cache
  - Installing symfony/css-selector (v3.2.7): Loading from cache
  - Installing tijsverkoyen/css-to-inline-styles (2.2.0): Loading from cache
```

composer create-project --prefer-dist laravel/laravel quickstart-5.4

Local Dev Environment

What's in Homestead

- Ubuntu 16.04
- PHP 7.1
- Nginx
- MySQL
- MariaDB
- Sqlite3
- Postgres
- MailHog
- Composer
- NodeJS
- Bower
- Grunt
- Gulp
- Beanstalkd
- Memcached
- Redis

Getting Homestead

```
┌─(halo@Joes-MacBook-Pro.local)(~)──────────────────────────────────────────
└─(10:40:41)─ git clone https://github.com/laravel/homestead.git Homestead
Cloning into 'Homestead'...
remote: Counting objects: 1670, done.
remote: Total 1670 (delta 0), reused 0 (delta 0), pack-reused 1670
Receiving objects: 100% (1670/1670), 258.60 KiB | 0 bytes/s, done.
Resolving deltas: 100% (986/986), done.
```

git clone https://github.com/laravel/homestead.git Homestead

Getting Homestead

```
┌─(halo@Joes-MacBook-Pro.local)(~)──────────────────────────────
└─(10:41:39)(127)─ cd Homestead

┌─(halo@Joes-MacBook-Pro.local)(~/Homestead)(master)─
└─(10:41:44)─ bash init.sh
Homestead initialized!
```

cd Homestead && bash init.sh

How I use Homestead

```
┌─(joferguson16@us164916)(~/PhpstormProjects/quickstart-5.4)──────
└─(19:44:14)(130)─ composer require --dev laravel/homestead
Using version ^5.2 for laravel/homestead
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Installing laravel/homestead (v5.2.1): Loading from cache
Writing lock file
Generating autoload files
> Illuminate\Foundation\ComposerScripts::postUpdate
> php artisan optimize
Generating optimized class loader
The compiled services file has been removed.
```

composer require —dev laravel/homestead

Make Homestead

```
┌─(halo@Joes-MacBook-Pro.local)(~/PhpstormProjects/quickstart-basic-5.3)
└─(10:46:04)(1)─ ./vendor/bin/homestead make --aliases
Homestead Installed!
```

./vendor/bin/homested make —aliases

What is –aliases?

```
alias ..="cd .."
alias ...="cd ../.."

alias h='cd ~'
alias c='clear'
alias artisan='php artisan'

alias phpspec='vendor/bin/phpspec'
alias phpunit='vendor/bin/phpunit'
alias serve=serve-laravel
```

Configuring Homestead

```yaml
ip: 192.168.10.10
memory: 2048
cpus: 1
provider: virtualbox
authorize: ~/.ssh/id_rsa.pub
keys:
    - ~/.ssh/id_rsa
folders:
    -
        map: ~/PhpstormProjects/5.4
        to: /home/vagrant/qs
sites:
    -
        map: qs.app
        to: /home/vagrant/qs/public
databases:
    - homestead
name: qs
hostname: quick
```

Starting Homestead

```
┌(joferguson16@us164916)(~/PhpstormProjects/5.4)(master no-remote)-
└(19:45:55)- vagrant destroy -f && vagrant up
==> qs: Forcing shutdown of VM...
==> qs: Destroying VM and associated drives...
Bringing machine 'qs' up with 'virtualbox' provider...
==> qs: Importing base box 'laravel/homestead'...
==> qs: Matching MAC address for NAT networking...
==> qs: Checking if box 'laravel/homestead' is up to date...
==> qs: Setting the name of the VM: qs
==> qs: Clearing any previously set network interfaces...
==> qs: Preparing network interfaces based on configuration...
    qs: Adapter 1: nat
    qs: Adapter 2: hostonly
==> qs: Forwarding ports...
    qs: 80 (guest) => 8000 (host) (adapter 1)
    qs: 443 (guest) => 44300 (host) (adapter 1)
    qs: 3306 (guest) => 33060 (host) (adapter 1)
    qs: 5432 (guest) => 54320 (host) (adapter 1)
    qs: 8025 (guest) => 8025 (host) (adapter 1)
    qs: 27017 (guest) => 27017 (host) (adapter 1)
    qs: 22 (guest) => 2222 (host) (adapter 1)
==> qs: Running 'pre-boot' VM customizations...
==> qs: Booting VM...
==> qs: Waiting for machine to boot. This may take a few minutes...
    qs: SSH address: 127.0.0.1:2222
```

Inspecting Homestead

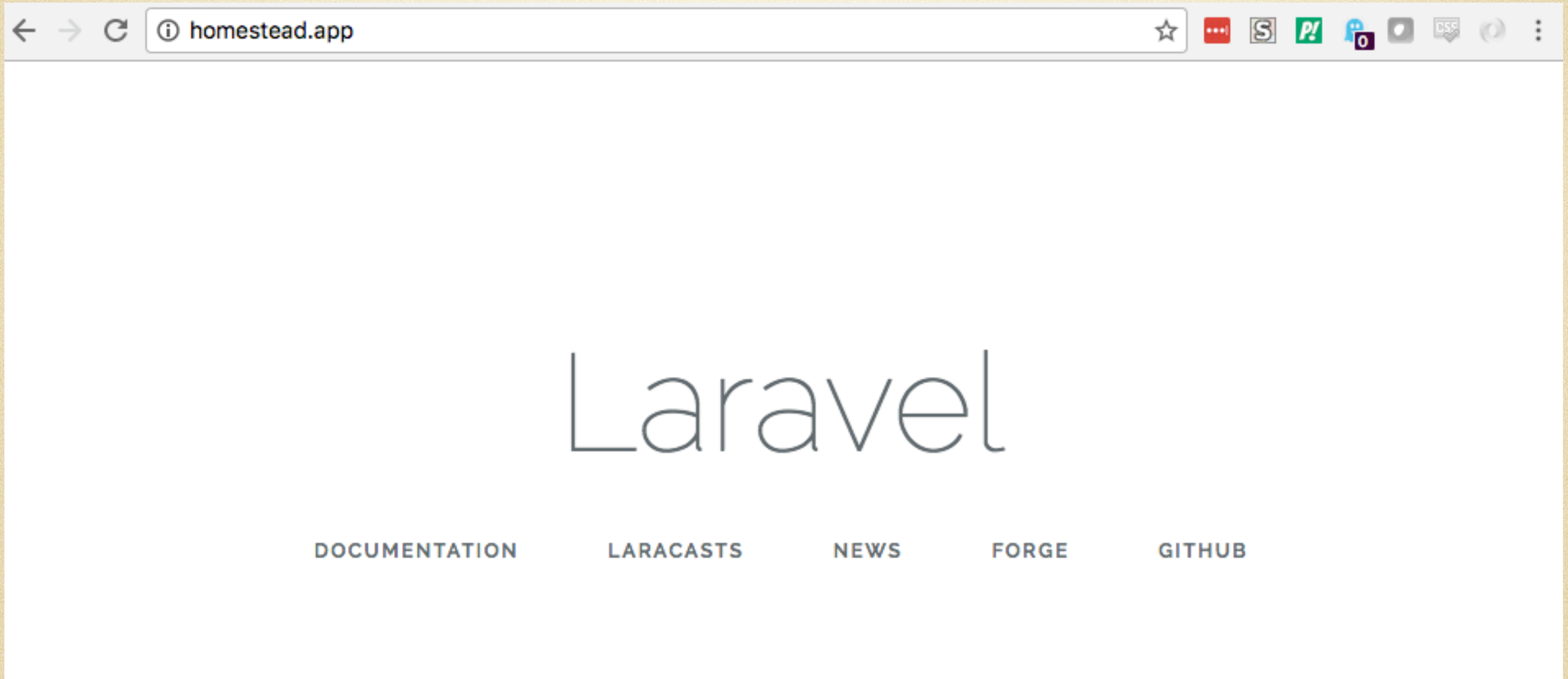
```
┌(joferguson16@us164916)(~/PhpstormProjects/5.4)(master no-remote)──────────
└(19:46:52)─ vagrant ssh
cd qwcd qWelcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-66-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

3 packages can be updated.
0 updates are security updates.


vagrant@quick:~$ cd qs
vagrant@quick:~/qs$ ll
total 344
drwxr-xr-x 1 vagrant vagrant   1156 Apr 18 00:45 ./
drwxr-xr-x 6 vagrant vagrant   4096 Apr 18 00:46 ../
-rw-r--r-- 1 vagrant vagrant    177 Apr 17 02:18 after.sh
-rw-r--r-- 1 vagrant vagrant   3085 Apr 17 02:18 aliases
drwxr-xr-x 1 vagrant vagrant    238 Jan 28 20:50 app/
-rw-r--r-- 1 vagrant vagrant   1646 Jan 28 20:50 artisan
drwxr-xr-x 1 vagrant vagrant    170 Jan 28 20:50 bootstrap/
-rw-r--r-- 1 vagrant vagrant   1300 Apr 17 01:57 composer.json
-rw-r--r-- 1 vagrant vagrant 123122 Apr 17 01:57 composer.lock
drwxr-xr-x 1 vagrant vagrant    442 Jan 28 20:50 config/
drwxr-xr-x 1 vagrant vagrant    204 Jan 28 20:50 database/
-rw-r--r-- 1 vagrant vagrant    550 Jan 28 20:50 .env
-rw-r--r-- 1 vagrant vagrant    499 Jan 28 20:50 .env.example
drwxr-xr-x 1 vagrant vagrant    408 Apr 18 00:46 .git/
```

Edit /etc/hosts

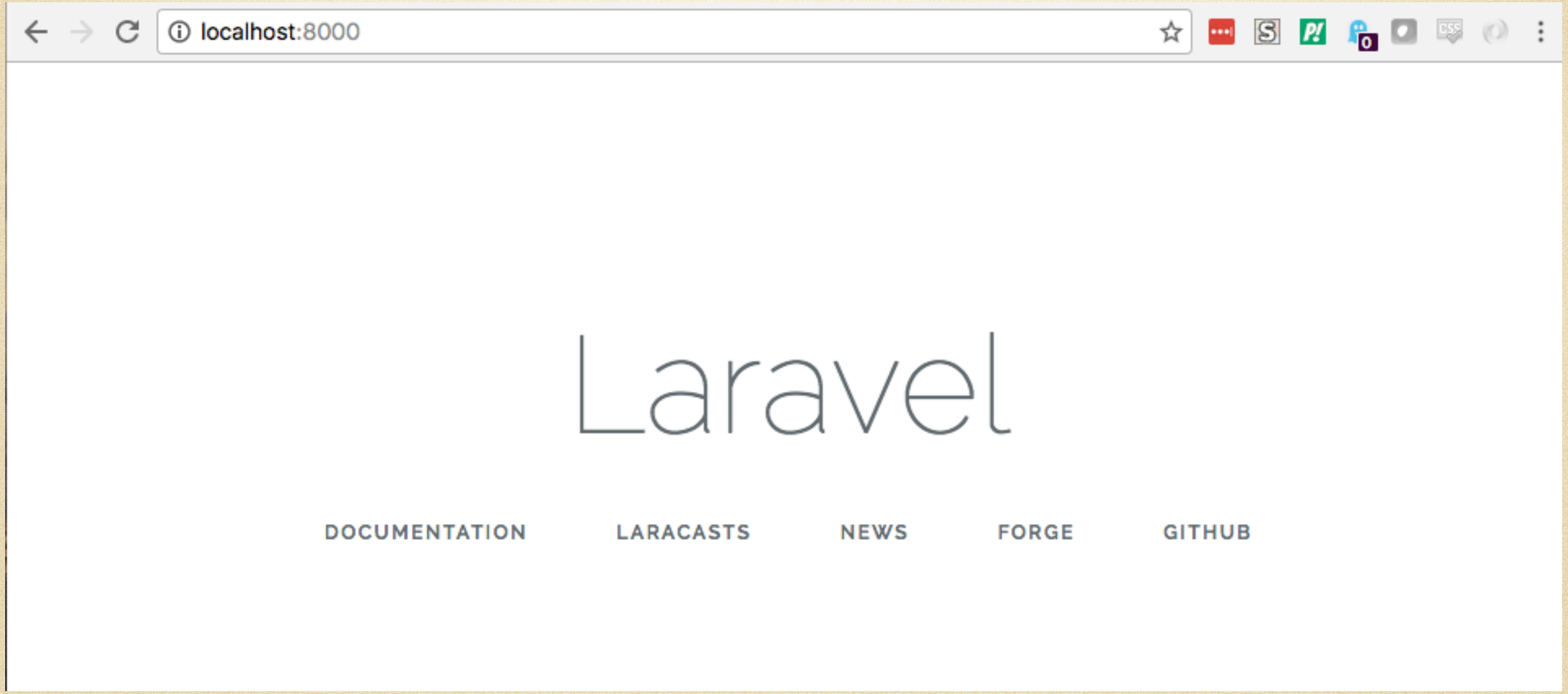
```
1  ##
2  # Host Database
3  #
4  # localhost is used to configure the loopb
5  # when the system is booting.  Do not chan
6  ##
7  127.0.0.1   localhost
8  255.255.255.255 broadcasthost
9  ::1             localhost
10
11 192.168.10.10 homestead.app
```

Optional for per project Homestead

Inspecting Homestead



Inspecting Homestead



Stopping Homestead

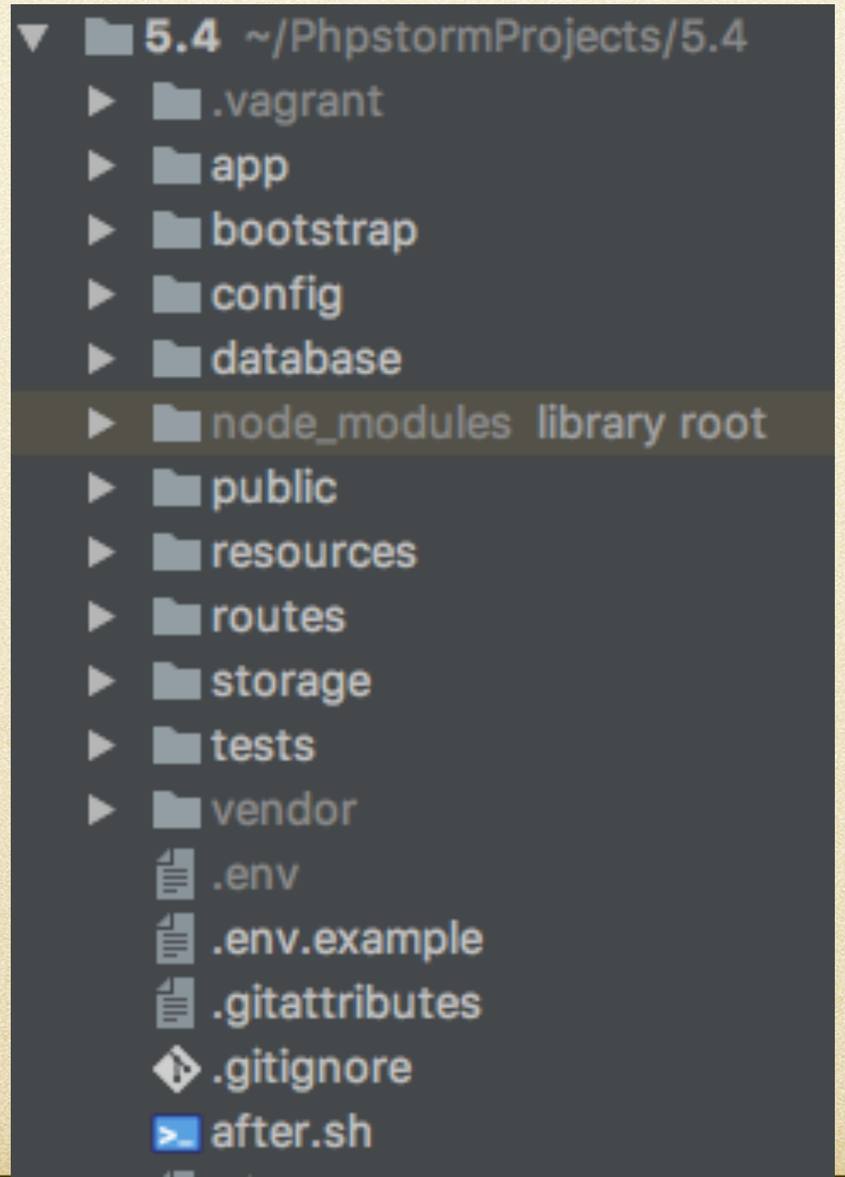
```
┌(joferguson16@us164916)(~/PhpstormProjects/5.4)(master no-remote)─
└(19:49:09)─ vagrant halt
==> qs: Attempting graceful shutdown of VM...

┌(joferguson16@us164916)(~/PhpstormProjects/5.4)(master no-remote)─
└(19:49:18)─ vagrant destroy
    qs: Are you sure you want to destroy the 'qs' VM? [y/N] y
==> qs: Destroying VM and associated drives...
```

Don’t version control
Homestead.yaml

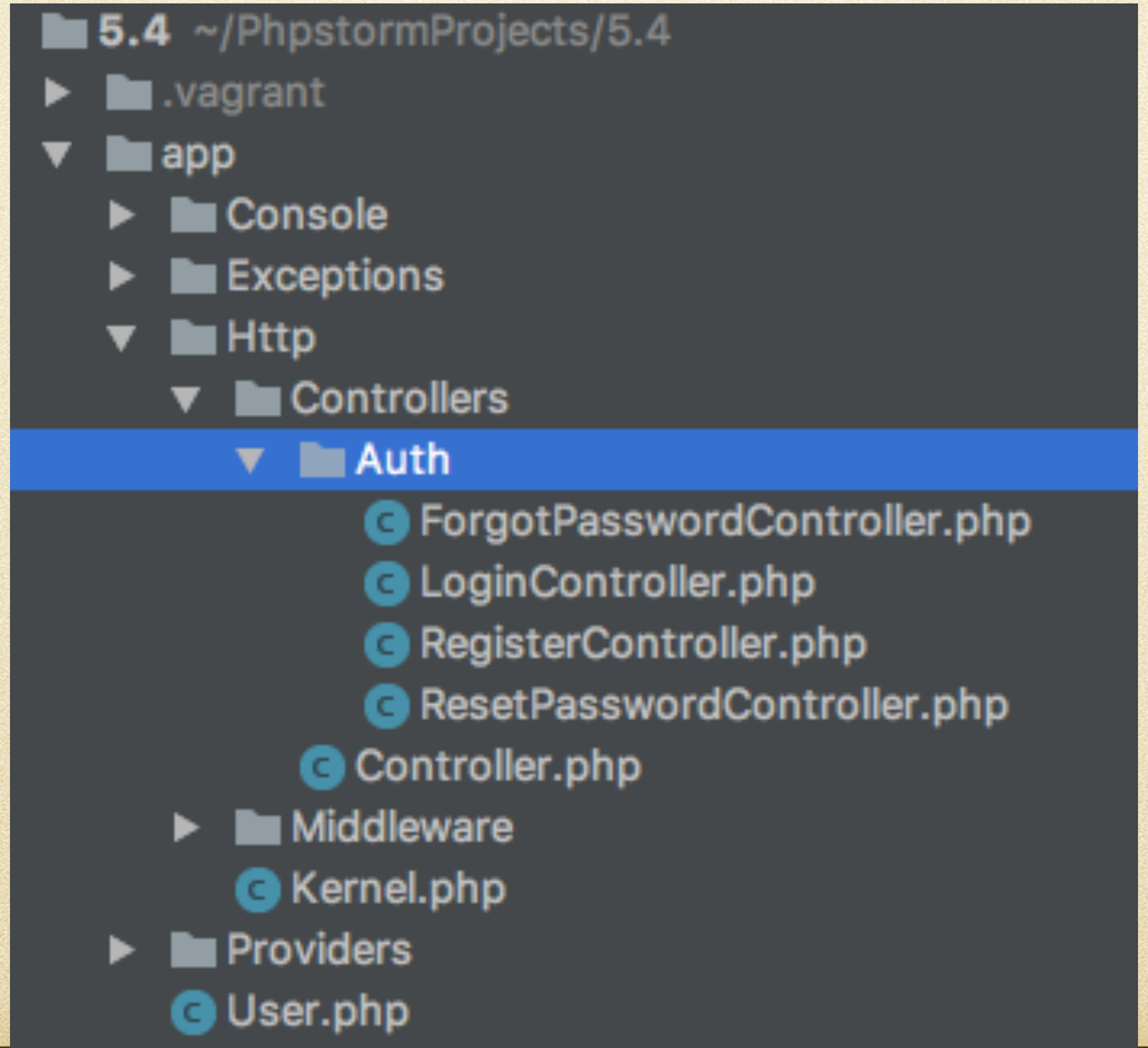
Questions?

Getting Started with Laravel

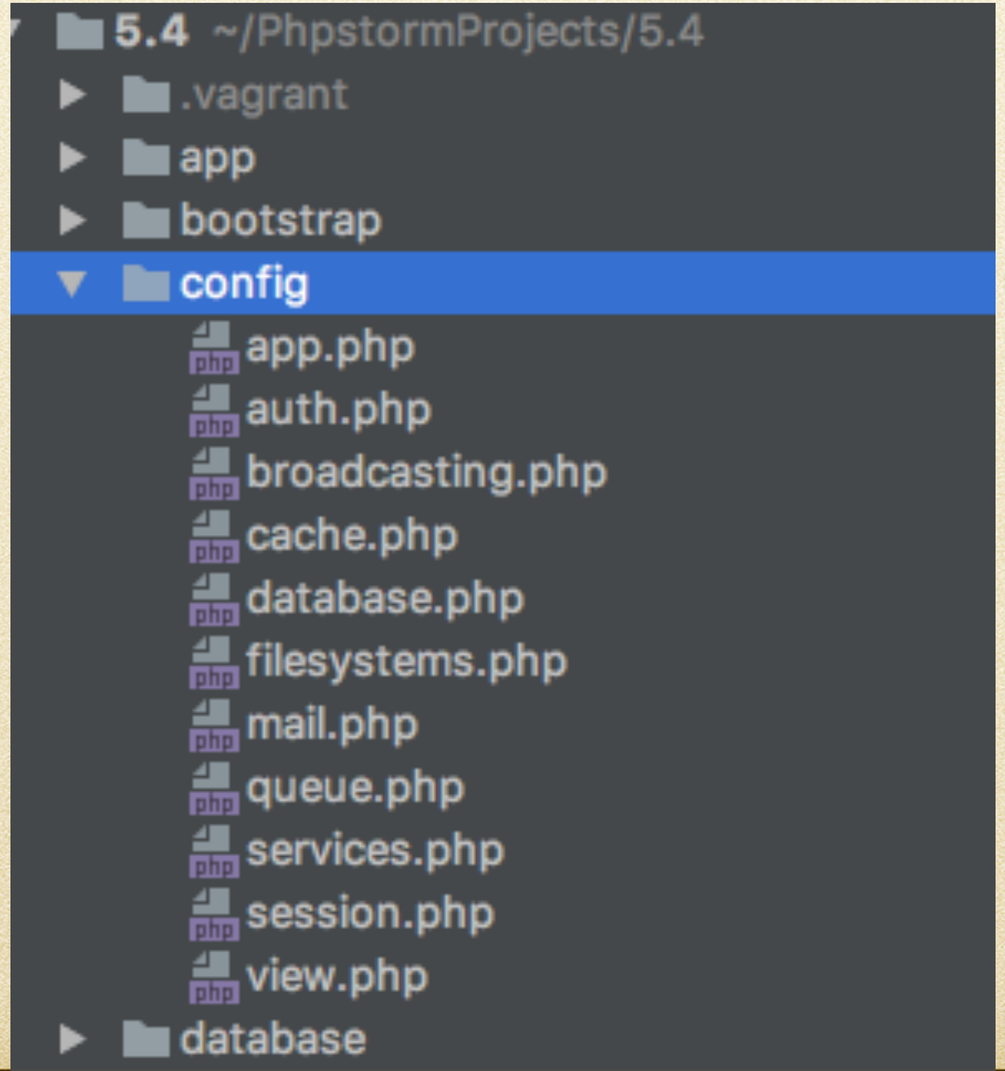
Project Structure



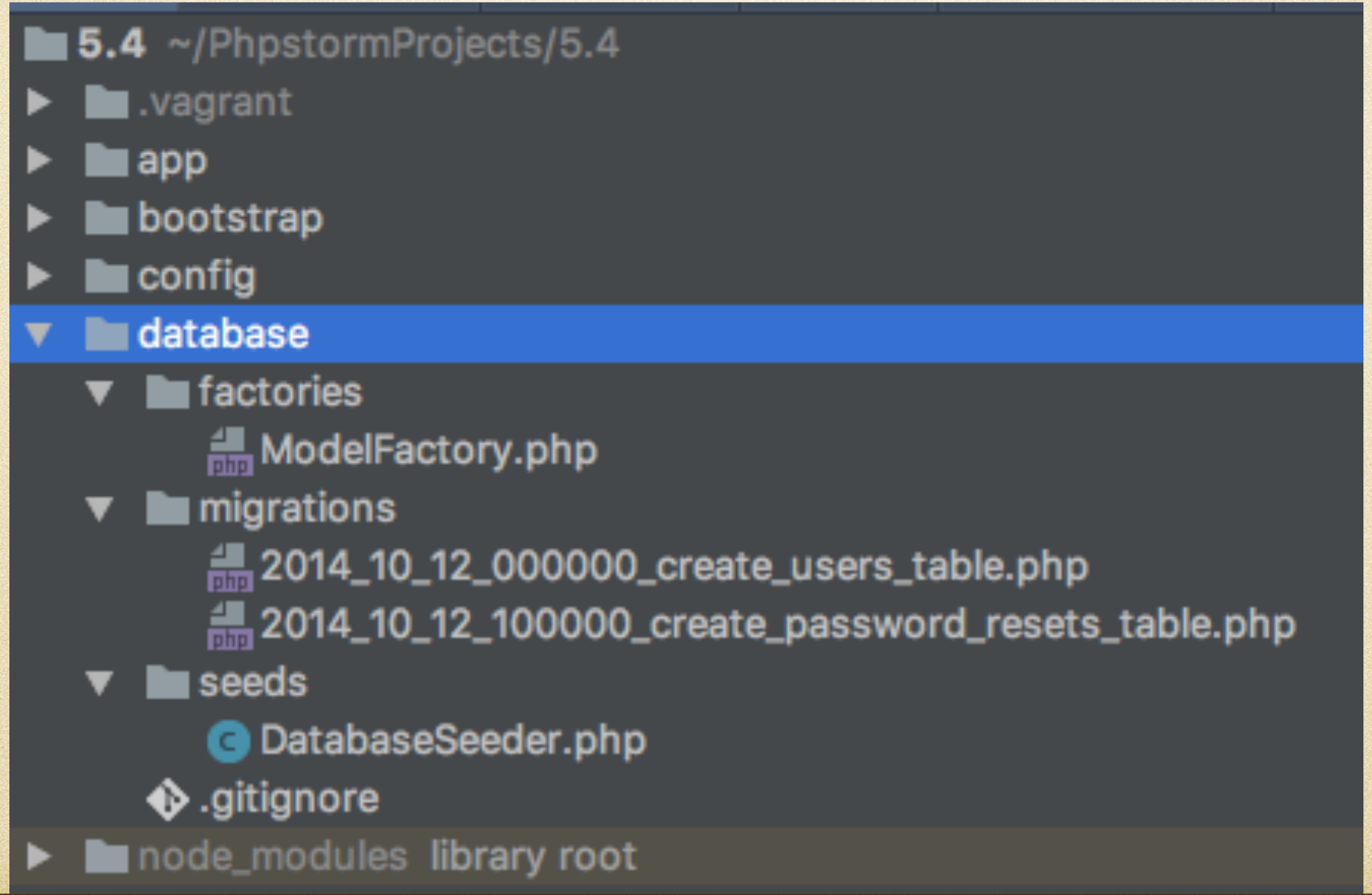
app Folder


5.4 ~/PhpstormProjects/5.4
.vagrant
app
Console
Exceptions
Http
Controllers
Auth
ForgotPasswordController.php
LoginController.php
RegisterController.php
ResetPasswordController.php
Controller.php
Middleware
Kernel.php
Providers
User.php

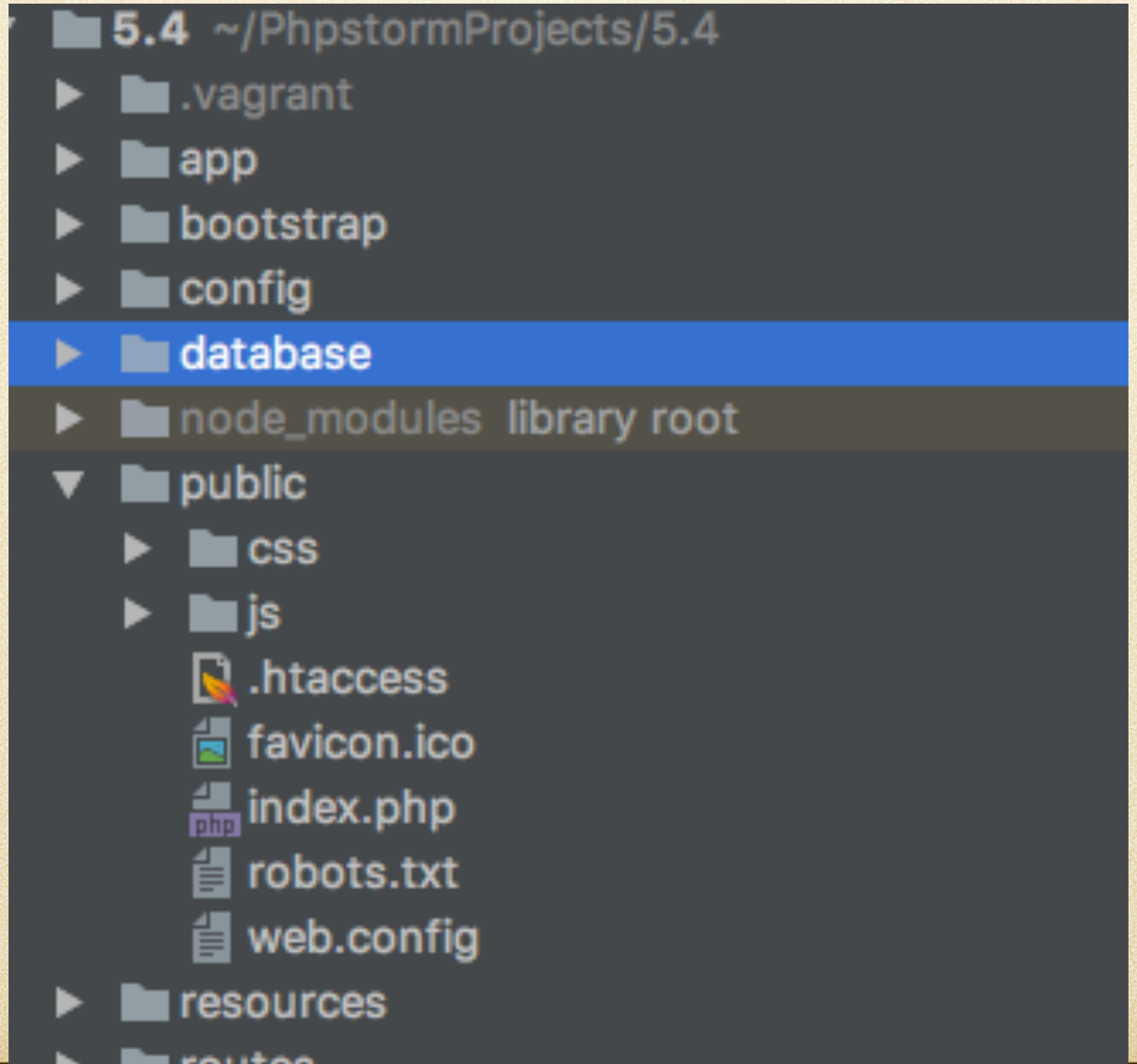
config Folder



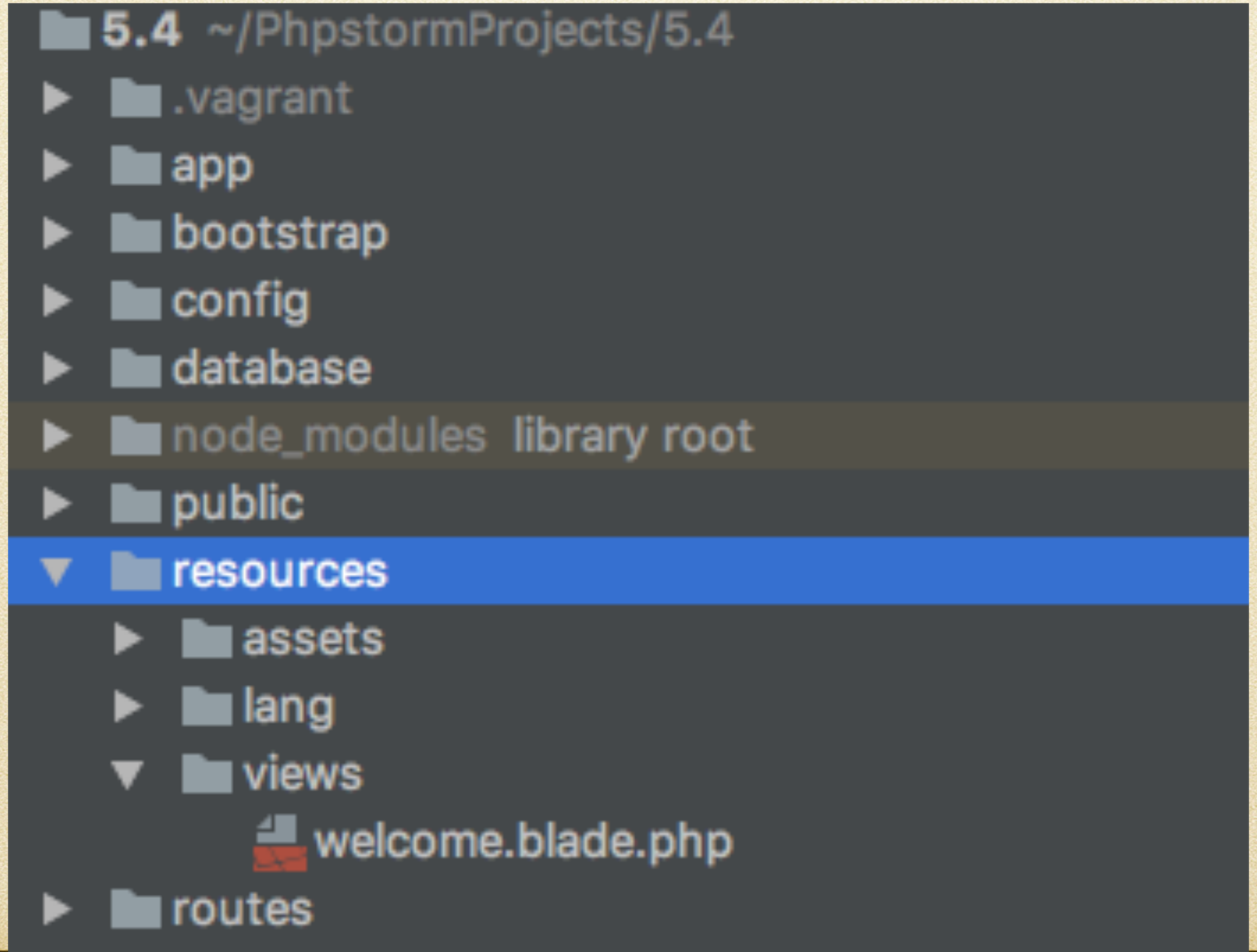
database Folder



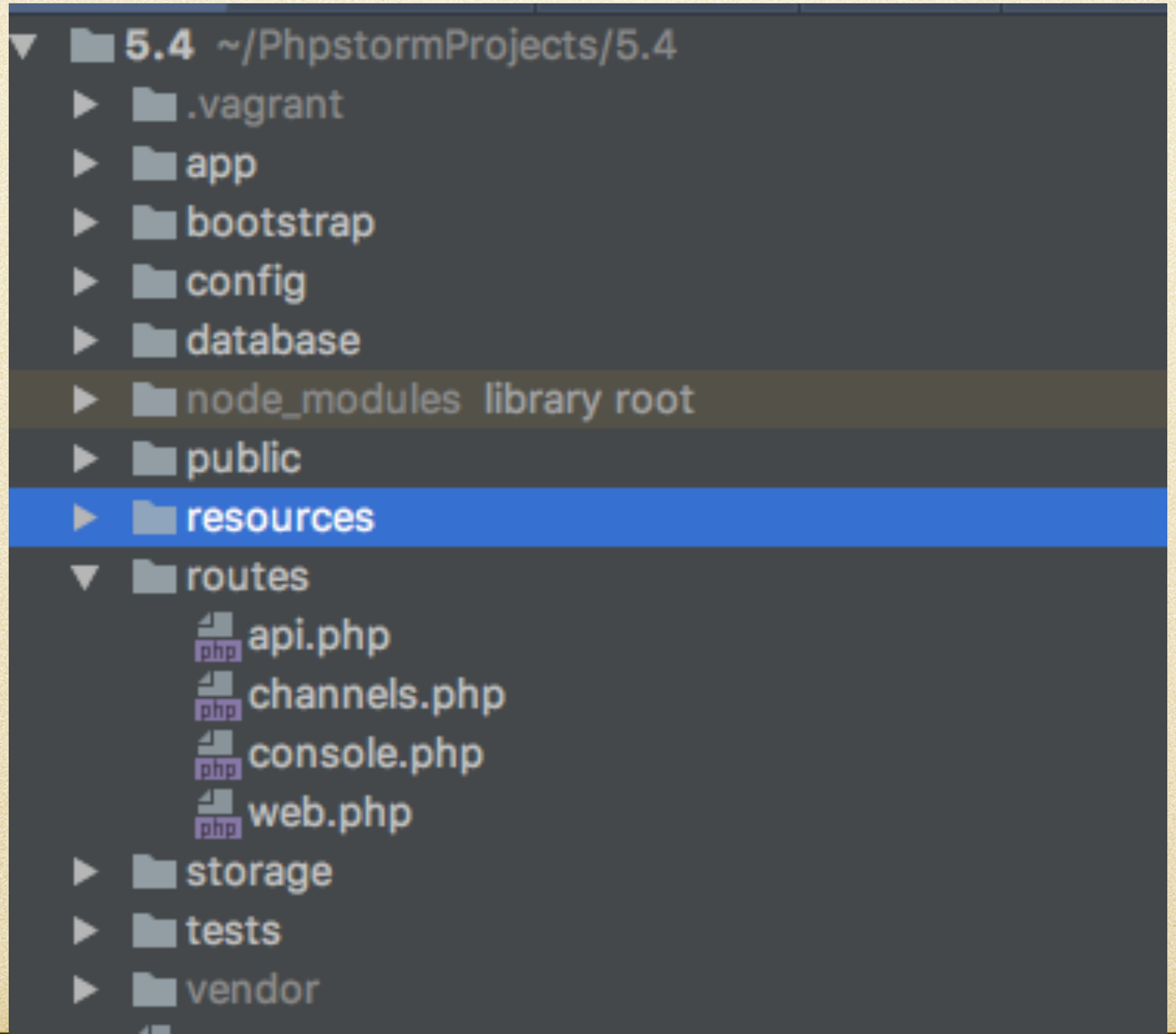
public Folder



resources Folder



routes Folder

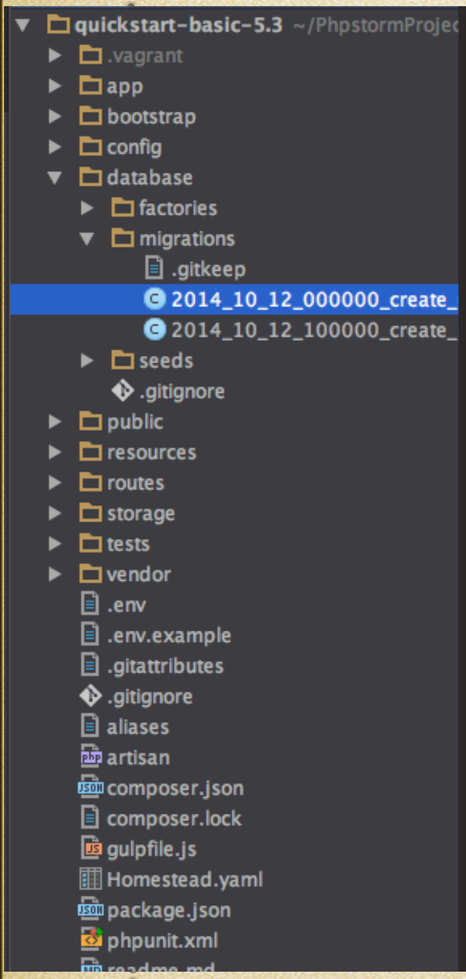


Model Factories

```php
<?php

/*...*/

/** @var \Illuminate\Database\Eloquent\Factory $factory */
$factory->define( class: App\User::class, function (Faker\Generator $faker) {
    static $password;

    return [
        'name' => $faker->name,
        'email' => $faker->unique()->safeEmail,
        'password' => $password ?: $password = bcrypt( value: 'secret'),
        'remember_token' => str_random( length: 10),
    ];
});

```

database/factories/ModelFactory.php

User Migration up()




```
14      public function up()
15      {
16          Schema::create('users', function (Blueprint $table) {
17              $table->increments('id');
18              $table->string('name');
19              $table->string('email')->unique();
20              $table->string('password');
21              $table->rememberToken();
22              $table->timestamps();
23          });
24      }
```

database / migrations

User Migration down()

```
26      /**
27       * Reverse the migrations.
28       *
29       * @return void
30       */
31      public function down()
32      {
33          Schema::drop('users');
34      }
```

Database Seeders

```php
<?php

use Illuminate\Database\Seeder;

class DatabaseSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        factory(App\User::class, 5)->create();
    }
}
```

Artisan Commands

```
vagrant@quick:~/qs$ artisan
Laravel Framework 5.4.19

Usage:
  command [options] [arguments]

Options:
  -h, --help            Display this help message
  -q, --quiet           Do not output any message
  -V, --version         Display this application version
      --ansi            Force ANSI output
      --no-ansi         Disable ANSI output
  -n, --no-interaction  Do not ask any interactive question
      --env[=ENV]       The environment the command should run under
  -v|vv|vvv, --verbose  Increase the verbosity of messages: 1 for no

Available commands:
  clear-compiled       Remove the compiled class file
  down                 Put the application into maintenance mode
  env                  Display the current framework environment
  help                 Displays help for a command
  inspire              Display an inspiring quote
  list                 Lists commands
  migrate              Run the database migrations
  optimize             Optimize the framework for better performance
  serve                Serve the application on the PHP development
  tinker               Interact with your application
  up                   Bring the application out of maintenance mode
```

Artisan Commands

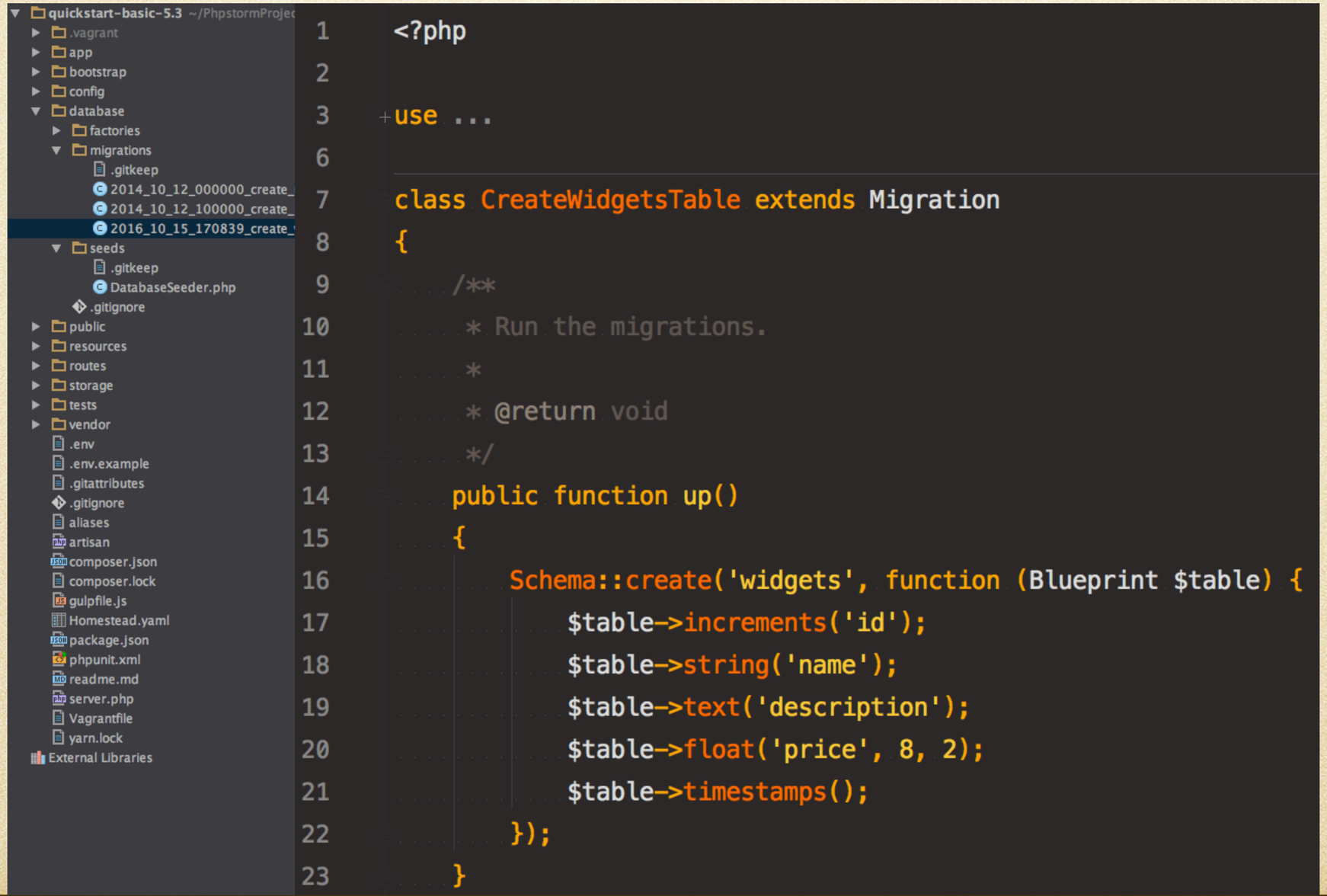
```
vagrant@qs:~/qs$ artisan | grep make:
  make:auth            Scaffold basic login and registration views and routes
  make:command         Create a new Artisan command
  make:controller      Create a new controller class
  make:event           Create a new event class
  make:job             Create a new job class
  make:listener        Create a new event listener class
  make:mail            Create a new email class
  make:middleware      Create a new middleware class
  make:migration       Create a new migration file
  make:model           Create a new Eloquent model class
  make:notification    Create a new notification class
  make:policy          Create a new policy class
  make:provider        Create a new service provider class
  make:request         Create a new form request class
  make:seeder          Create a new seeder class
  make:test            Create a new test class
```

Create Migration

```
vagrant@qs:~/qs$ artisan make:migration create_widgets_table
Created Migration: 2016_10_15_170839_create_widgets_table
vagrant@qs:~/qs$
```

artisan make:migration create_widgets_table

Create Migration



Create Migration

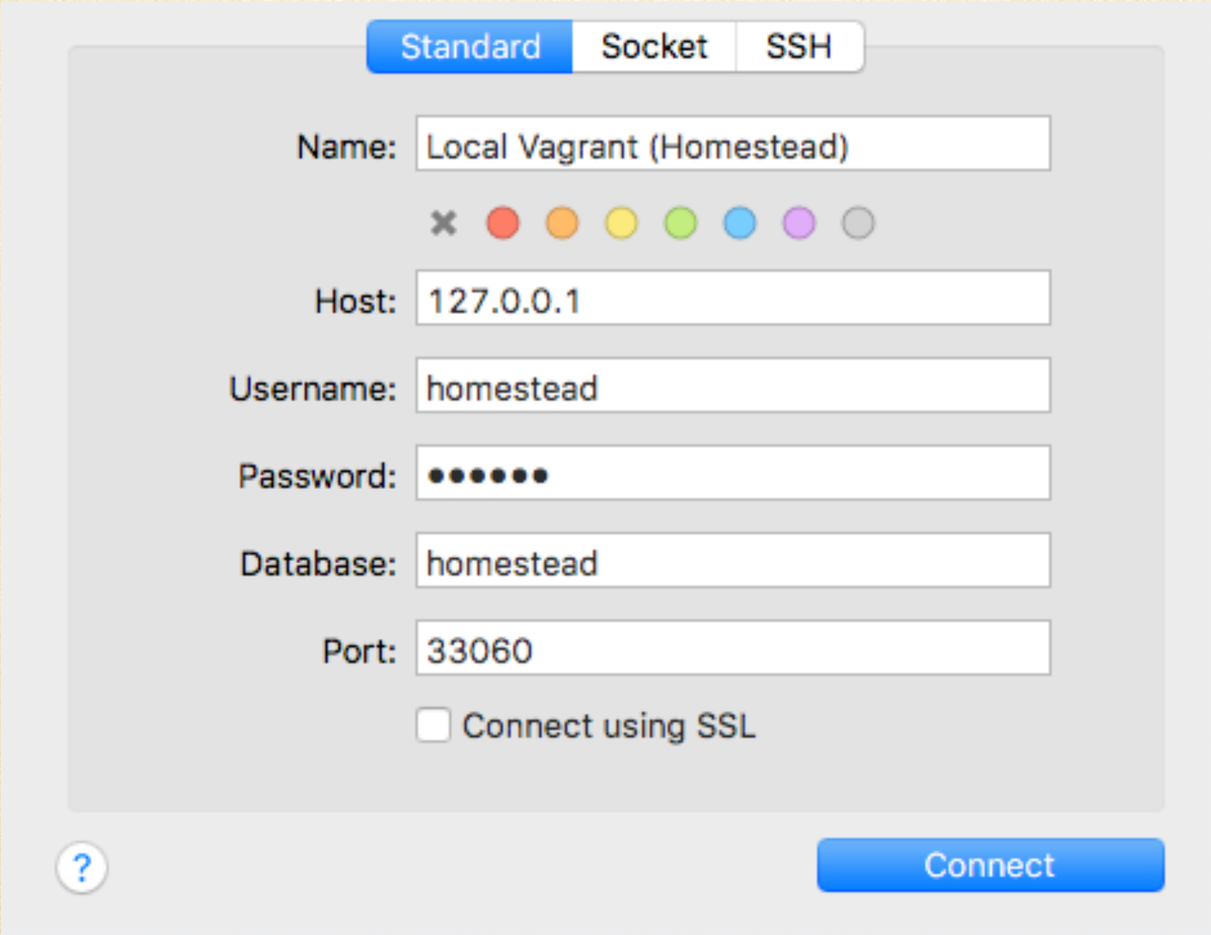
```
25      /**
26       * Reverse the migrations.
27       *
28       * @return void
29       */
30      public function down()
31      {
32          Schema::dropIfExists('widgets');
33      }
```

Run Migration(s)

```
vagrant@quick:~/qs$ artisan migrate
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated:  2014_10_12_000000_create_users_table
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated:  2014_10_12_100000_create_password_resets_table
Migrating: 2016_10_15_170839_create_widgets_table
Migrated:  2016_10_15_170839_create_widgets_table
vagrant@quick:~/qs$
```

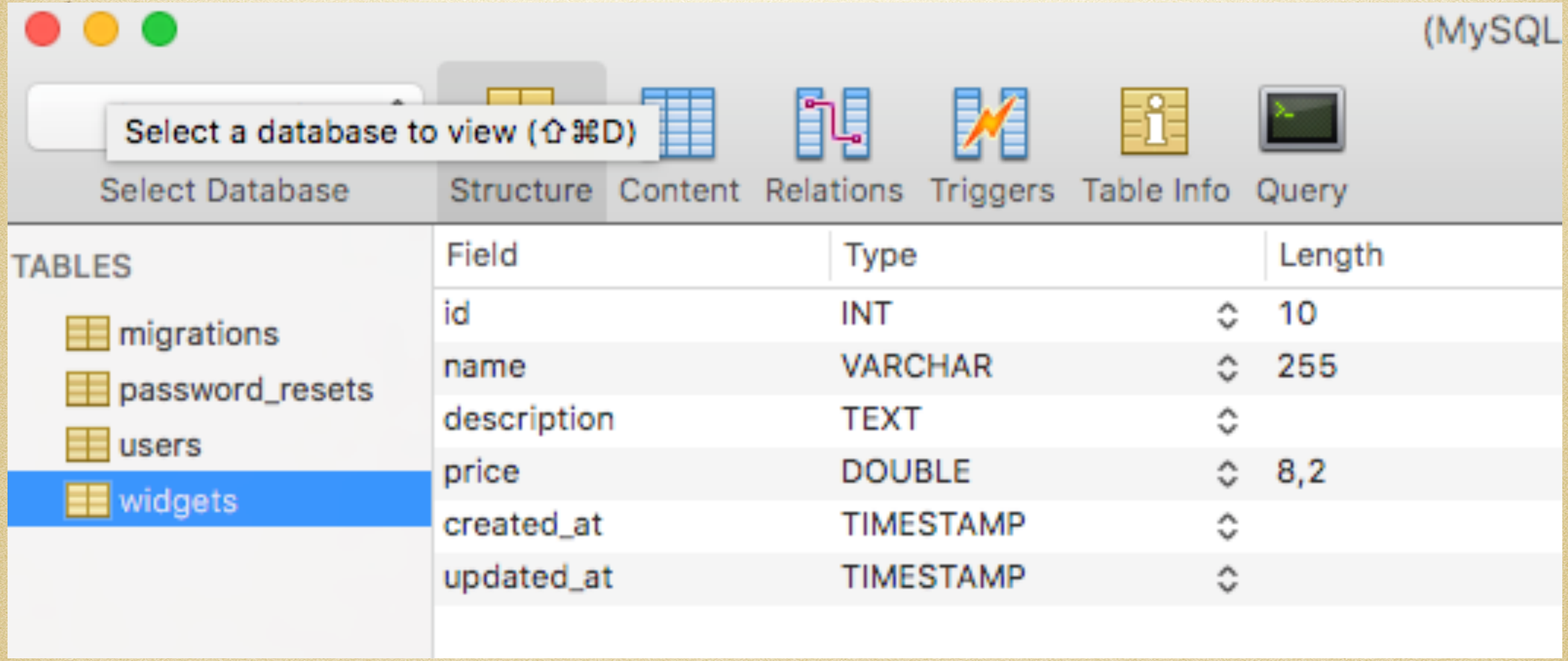
artisan migrate

Inspect the Database



Password is “secret”

Inspect the Database

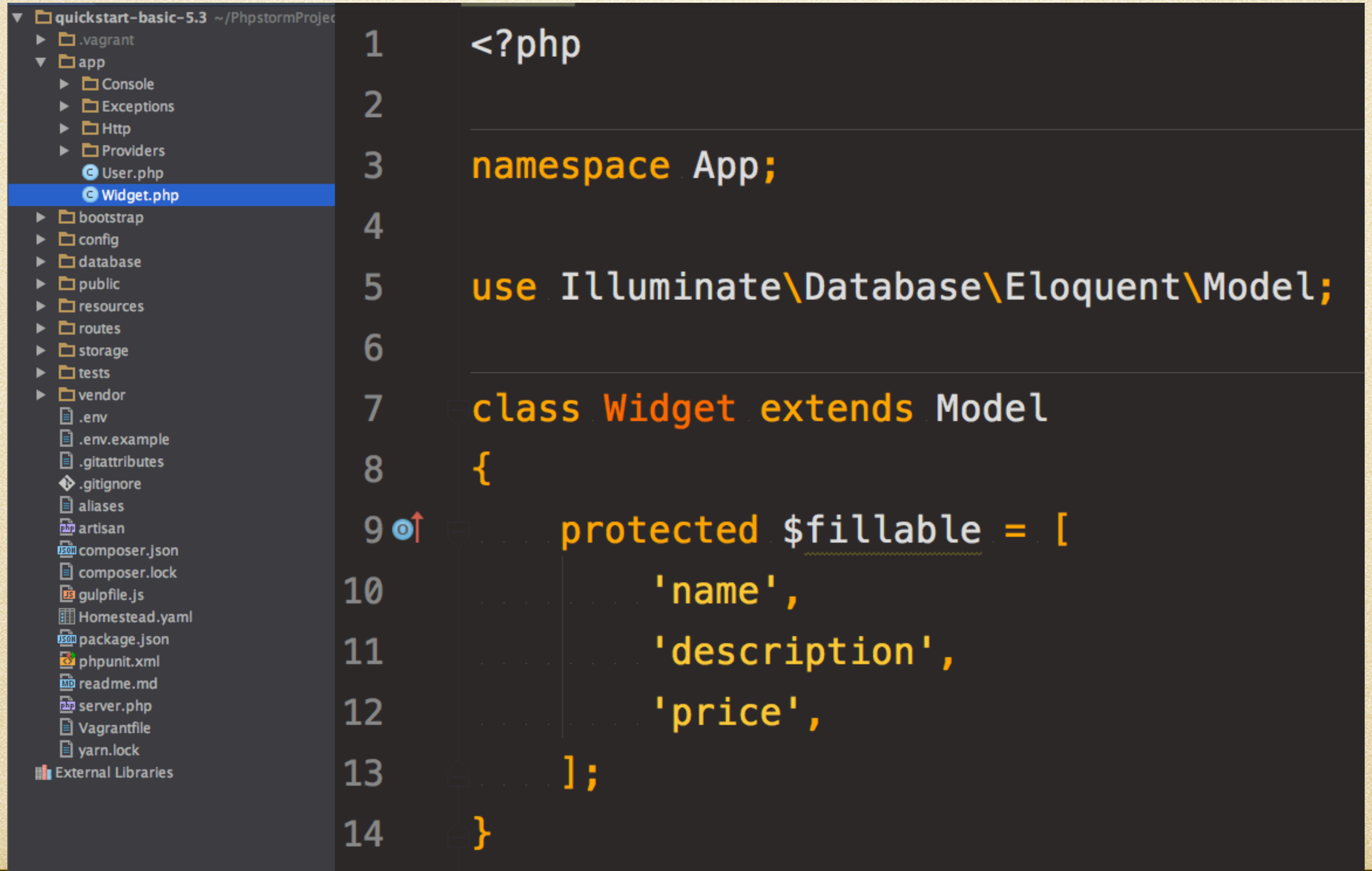


Create a model

```
vagrant@qs:~/qs$ artisan make:model Widget
Model created successfully.
vagrant@qs:~/qs$
```

artisan make:model Widget

Widget model



Add Widget ModelFactory

```
26  /** @var \Illuminate\Database\Eloquent\Factory $factory */
27  $factory->define(App\Widget::class, function (Faker\Generator $faker) {
28
29      return [
30          'name' => $faker->word . ' Widget',
31          'description' => $faker->paragraph(3),
32          'price' => $faker->randomFloat(2, 20, 999999),
33      ];
34  });
```

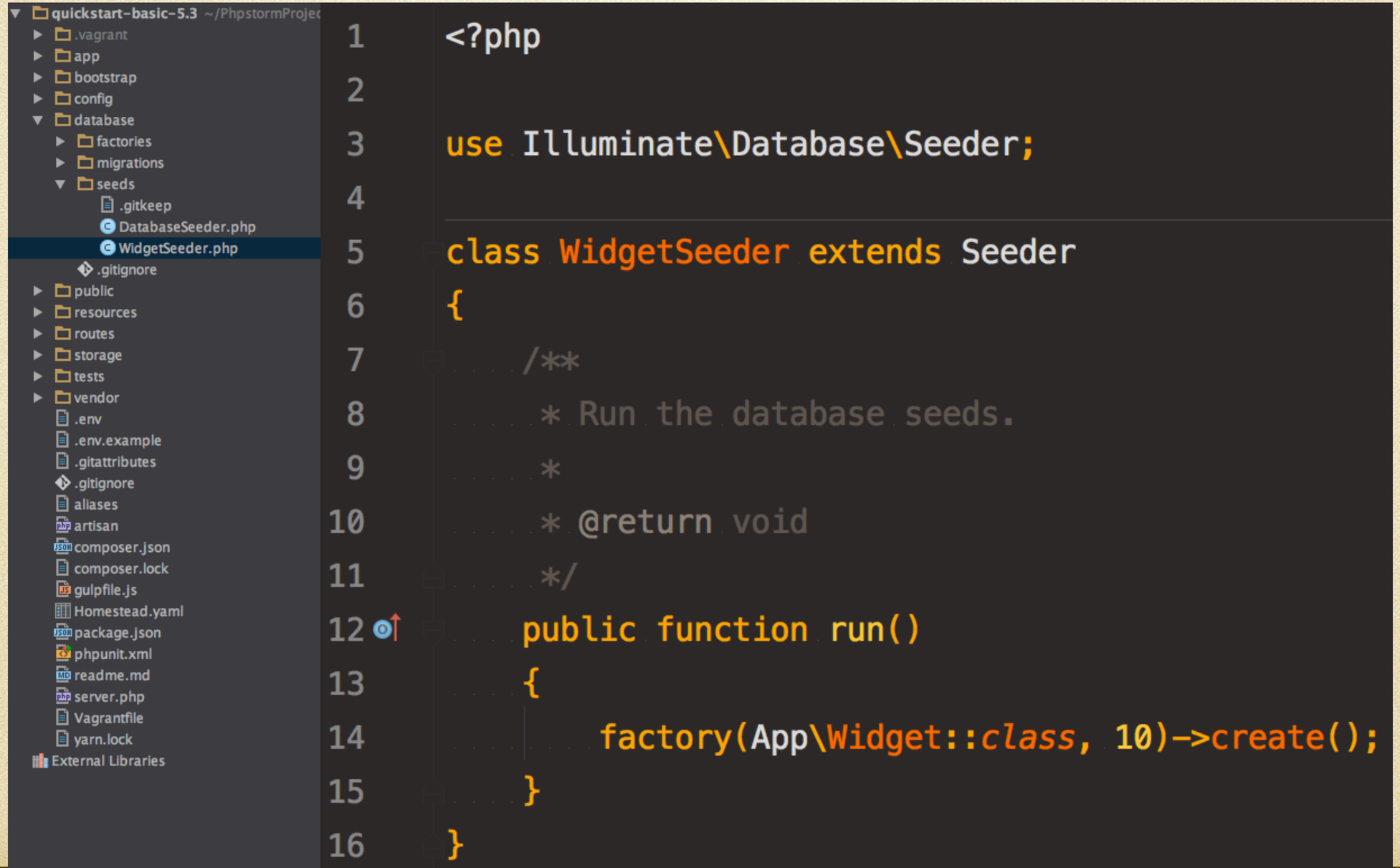
database/factories/ModelFactory.php

Create a seeder

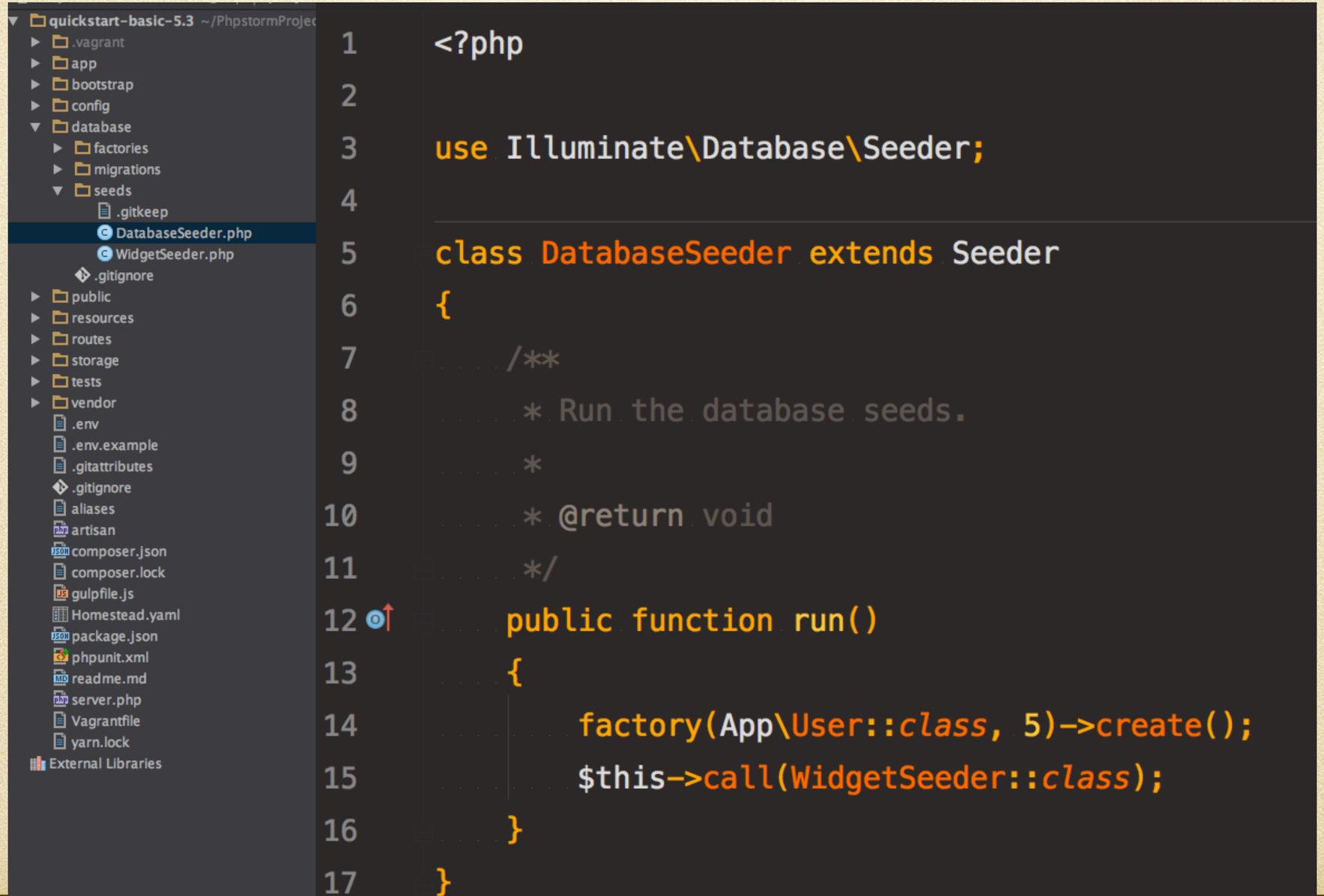
```
vagrant@qs:~/qs$ artisan make:seeder WidgetSeeder
Seeder created successfully.
vagrant@qs:~/qs$
```

artisan make:seeder WidgetSeeder

WidgetSeeder



DatabaseSeeder



Run Database Seeders

```
vagrant@quick:~/qs$ artisan db:seed
Seeding: WidgetSeeder
vagrant@quick:~/qs$
```

artisan db:seed

Users Table

TABLES

- migrations
- password_resets
- users
- widgets

Search: id =

id	name	email	password
1	Mrs. Jessika White	crist.kavon@example.com	$2y$10$WpXkdbz1Hxi/MxWHk60Ts.X/psT0uGHXH
2	Vergie Reynolds Jr.	whessel@example.com	$2y$10$WpXkdbz1Hxi/MxWHk60Ts.X/psT0uGHXH
3	Broderick Friesen	hayley.monahan@example.net	$2y$10$WpXkdbz1Hxi/MxWHk60Ts.X/psT0uGHXH
4	Prof. Jerrell Schuster	austen.veum@example.org	$2y$10$WpXkdbz1Hxi/MxWHk60Ts.X/psT0uGHXH
5	Donny Ernser	mwehner@example.org	$2y$10$WpXkdbz1Hxi/MxWHk60Ts.X/psT0uGHXH

Widgets Table

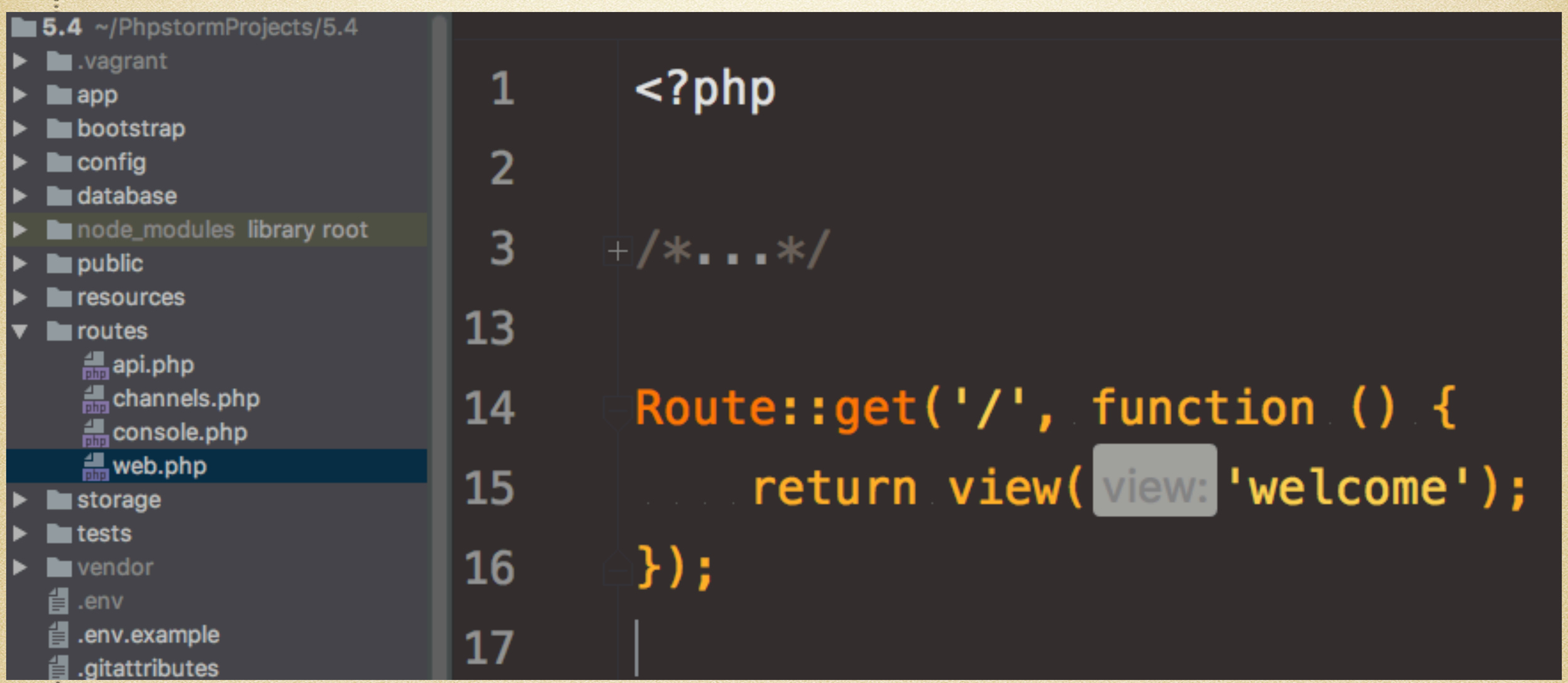
TABLES

- migrations
- password_resets
- users
- widgets

Search: id = Search

id	name	description	price	created_at	updated_at
1	cumque Widget	Sit perspiciatis autem quia soluta. Dicta quaerat aliquam nostrum sit quia eli...	153005.79	2016-10-15 17:30:35	2016-10-15 17:30:35
2	delectus Widget	Corrupti reprehenderit et omnis officia ratione cum eligendi. Est nesciunt qu...	20810.66	2016-10-15 17:30:35	2016-10-15 17:30:35
3	impedit Widget	Possimus et magni tempore dolorem sint porro et. Placeat occaecati volupta...	593767.83	2016-10-15 17:30:35	2016-10-15 17:30:35
4	et Widget	Perspiciatis voluptate odio illo adipisci optio praesentium autem qui. Adipis...	309975.70	2016-10-15 17:30:35	2016-10-15 17:30:35
5	eligendi Widget	Ex rem incidunt distinctio minus ipsam et vitae. Eveniet ut qui accusantium...	751376.76	2016-10-15 17:30:35	2016-10-15 17:30:35
6	sequi Widget	Mollitia et autem assumenda facilis earum. Quis voluptatem non ipsum tota...	608222.05	2016-10-15 17:30:35	2016-10-15 17:30:35
7	autem Widget	Molestias molestias laboriosam aperiam optio eos. Qui aut magnam aliquid....	178632.14	2016-10-15 17:30:35	2016-10-15 17:30:35
8	rem Widget	Vero similique omnis autem ea. Tenetur amet sed neque ut repudiandae. Di...	700195.64	2016-10-15 17:30:35	2016-10-15 17:30:35
9	molestiae Widget	Et commodi sequi aut consequatur. Nulla consequatur veritatis aliquam. Pro...	853737.65	2016-10-15 17:30:35	2016-10-15 17:30:35
10	qui Widget	Recusandae ut facere voluptas repellat id fugit hic. Ut vel ea et alias aut beat...	490998.02	2016-10-15 17:30:35	2016-10-15 17:30:35

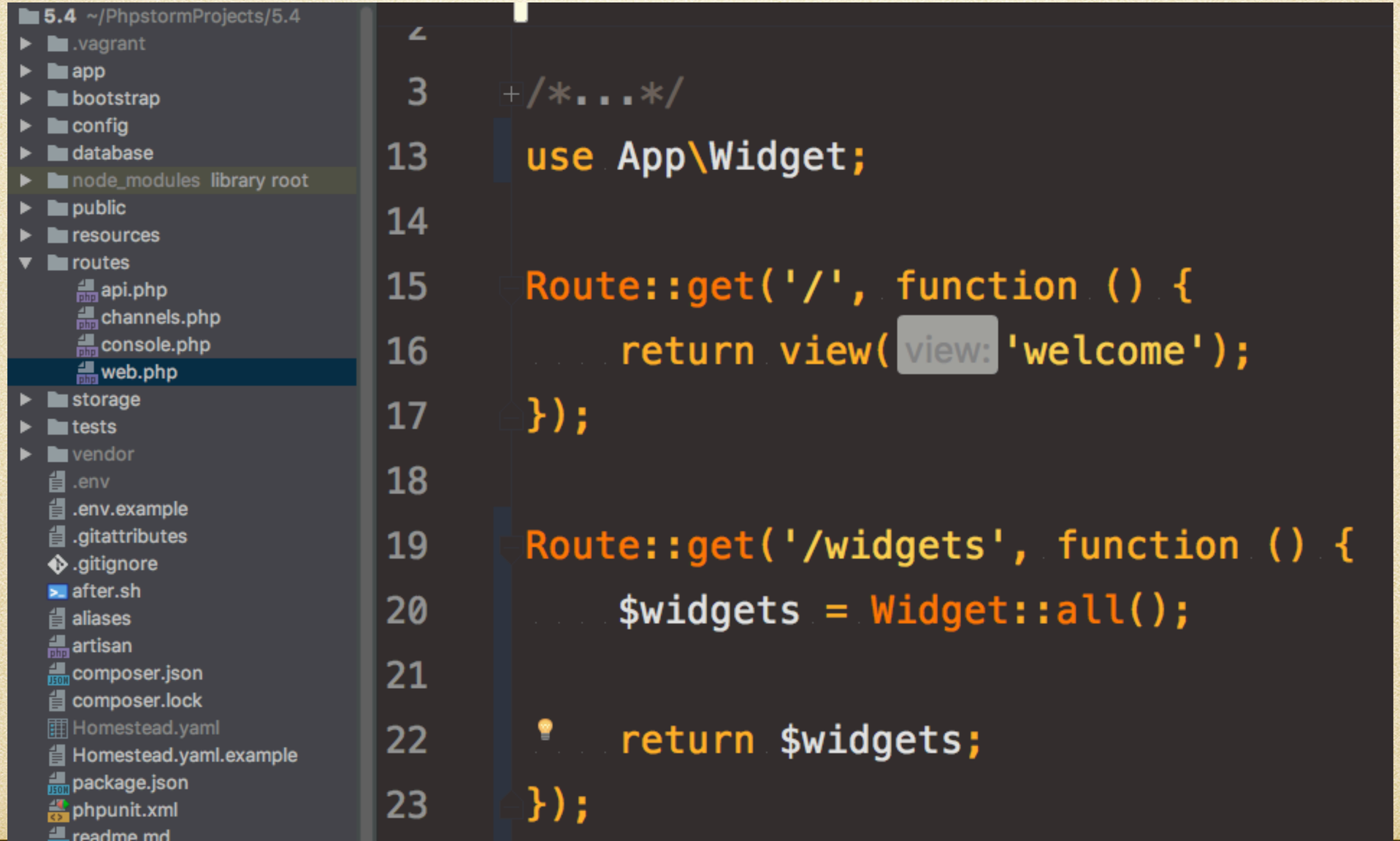
Routing



routes/web.php

Why 4 route files?!

Add /widgets Route



localhost:8000/widgets

localhost:8000/widgets

+ - View source


```
[
  - {
        id: 1,
        name: "cumque Widget",
        description: "Sit perspiciatis autem quia soluta. Dicta quaerat aliquam nostrum sit quia eligendi dolorem.
        Omnis voluptas eum et possimus dolor. Fuga minima quam nam ut iusto eos illum ea.",
        price: 153005.79,
        created_at: "2016-10-15 17:30:35",
        updated_at: "2016-10-15 17:30:35"
    },
  - {
        id: 2,
        name: "delectus Widget",
        description: "Corrupti reprehenderit et omnis officia ratione cum eligendi. Est nesciunt qui laboriosam eum
        odit quia ipsam. Et et non quia quia in necessitatibus consequuntur ipsam.",
        price: 20810.66,
        created_at: "2016-10-15 17:30:35",
        updated_at: "2016-10-15 17:30:35"
    },
  - {
        id: 3,
        name: "impedit Widget",
        description: "Possimus et magni tempore dolorem sint porro et. Placeat occaecati voluptatem delectus quaerat
        voluptas. Porro et sapiente quia voluptas facilis animi reiciendis. Ipsam aliquid pariatur commodi amet et quae
        optio. Veritatis quidem sed sit in doloribus.",
        price: 593767.83,
        created_at: "2016-10-15 17:30:35",
        updated_at: "2016-10-15 17:30:35"
```

Frontend Development

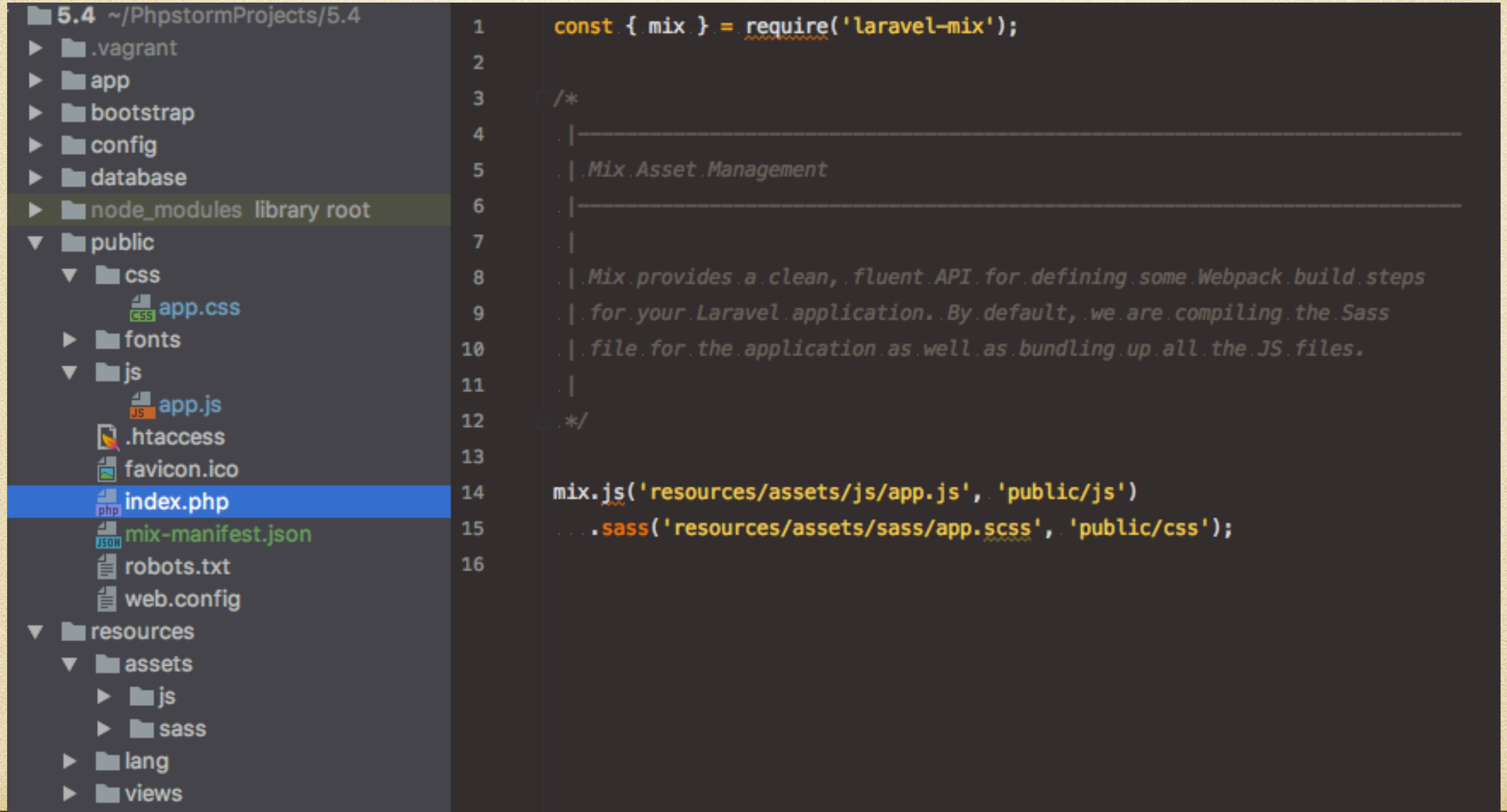
Run: npm install

```
vagrant@qs:~/qs$ npm install
npm WARN deprecated minimatch@2.0.10: Please update to minimatch 3.0.2 or higher to
npm WARN deprecated minimatch@0.2.14: Please update to minimatch 3.0.2 or higher to
npm WARN deprecated graceful-fs@1.2.3: graceful-fs v3.0.0 and before will fail on n
oon as possible. Use 'npm ls graceful-fs' to find it in the tree.
npm WARN prefer global marked@0.3.6 should be installed with -g
npm WARN prefer global node-gyp@3.4.0 should be installed with -g

> node-sass@3.10.1 install /home/vagrant/qs/node_modules/node-sass
> node scripts/install.js

Start downloading binary at https://github.com/sass/node-sass/releases/download/v3.
Binary downloaded and installed at /home/vagrant/qs/node_modules/node-sass/vendor/l

> node-sass@3.10.1 postinstall /home/vagrant/qs/node_modules/node-sass
> node scripts/build.js

"/home/vagrant/qs/node_modules/node-sass/vendor/linux-x64-47/binding.node" exists.
 testing binary.
Binary is fine; exiting.
/home/vagrant/qs
├── bootstrap-sass@3.3.7
├─┬ gulp@3.9.1
| ├── archy@1.0.0
| ├─┬ chalk@1.1.3
| | ├── ansi-styles@2.2.1
| | ├── escape-string-regexp@1.0.5
| | ├─┬ has-ansi@2.0.0
| | | └── ansi-regex@2.0.0
```

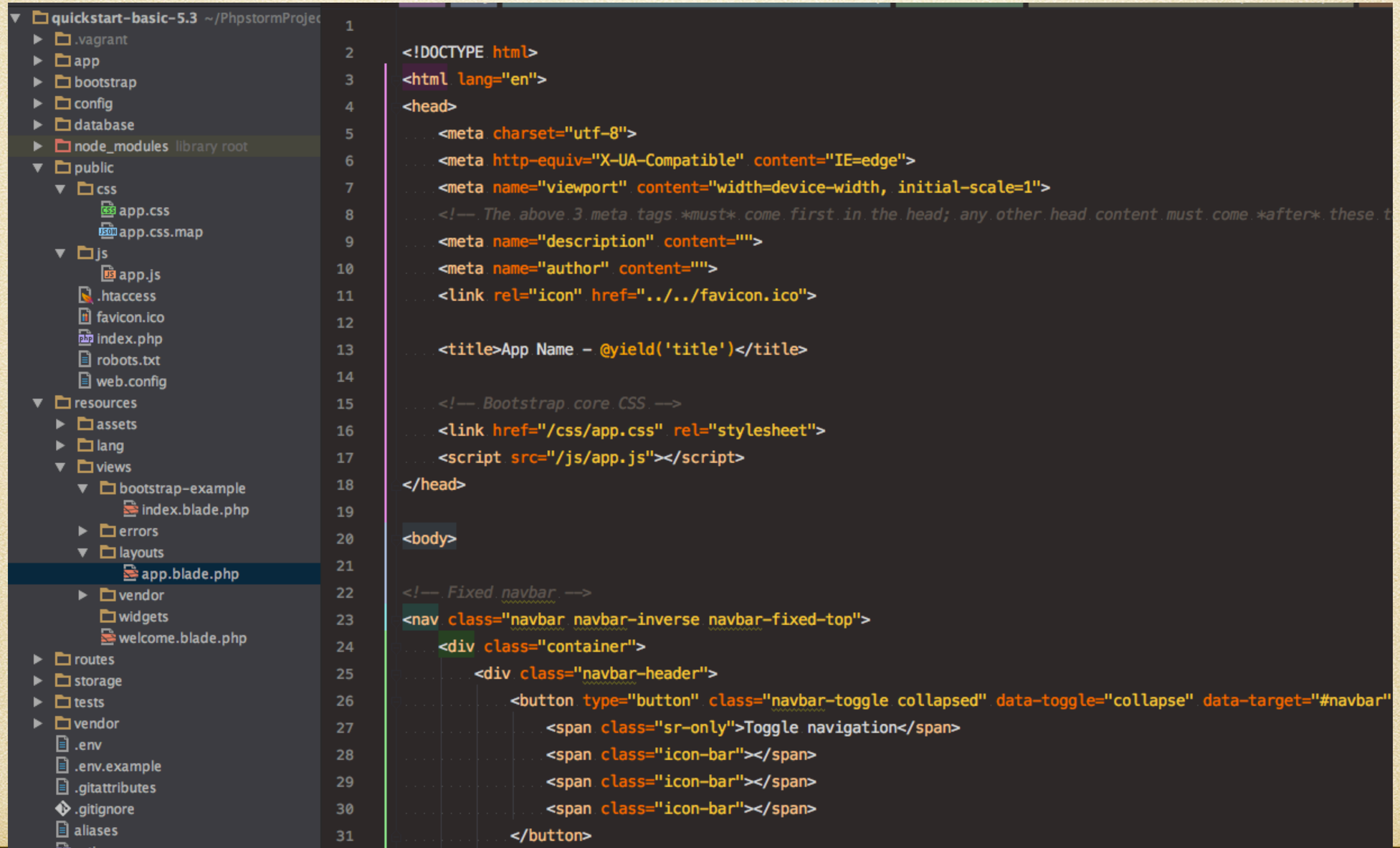
npm run dev

```
DONE  Compiled successfully in 7486ms

                                                                                    Asset       Size  Chunks                    Chunk Names
  fonts/vendor/bootstrap-sass/bootstrap/glyphicons-halflings-regular.eot?f4769f9bdb7466be65088239c12046d1   20.1 kB          [emitted]
  fonts/vendor/bootstrap-sass/bootstrap/glyphicons-halflings-regular.svg?89889688147bd7575d6327160d64e760    109 kB          [emitted]
  fonts/vendor/bootstrap-sass/bootstrap/glyphicons-halflings-regular.ttf?e18bbf611f2a2e43afc071aa2f4e1512   45.4 kB          [emitted]
 fonts/vendor/bootstrap-sass/bootstrap/glyphicons-halflings-regular.woff?fa2772327f55d8198301fdb8bcfc8158   23.4 kB          [emitted]
fonts/vendor/bootstrap-sass/bootstrap/glyphicons-halflings-regular.woff2?448c34a56d699c29117adc64c43affeb     18 kB          [emitted]
                                                                                         /js/app.js   1.18 MB       0  [emitted]  [big]  /js/app
                                                                                        /css/app.css    681 kB       0  [emitted]  [big]  /js/app
                                                                                   mix-manifest.json  66 bytes          [emitted]

vagrant@quick:~/qs$
```

Compiled Assets



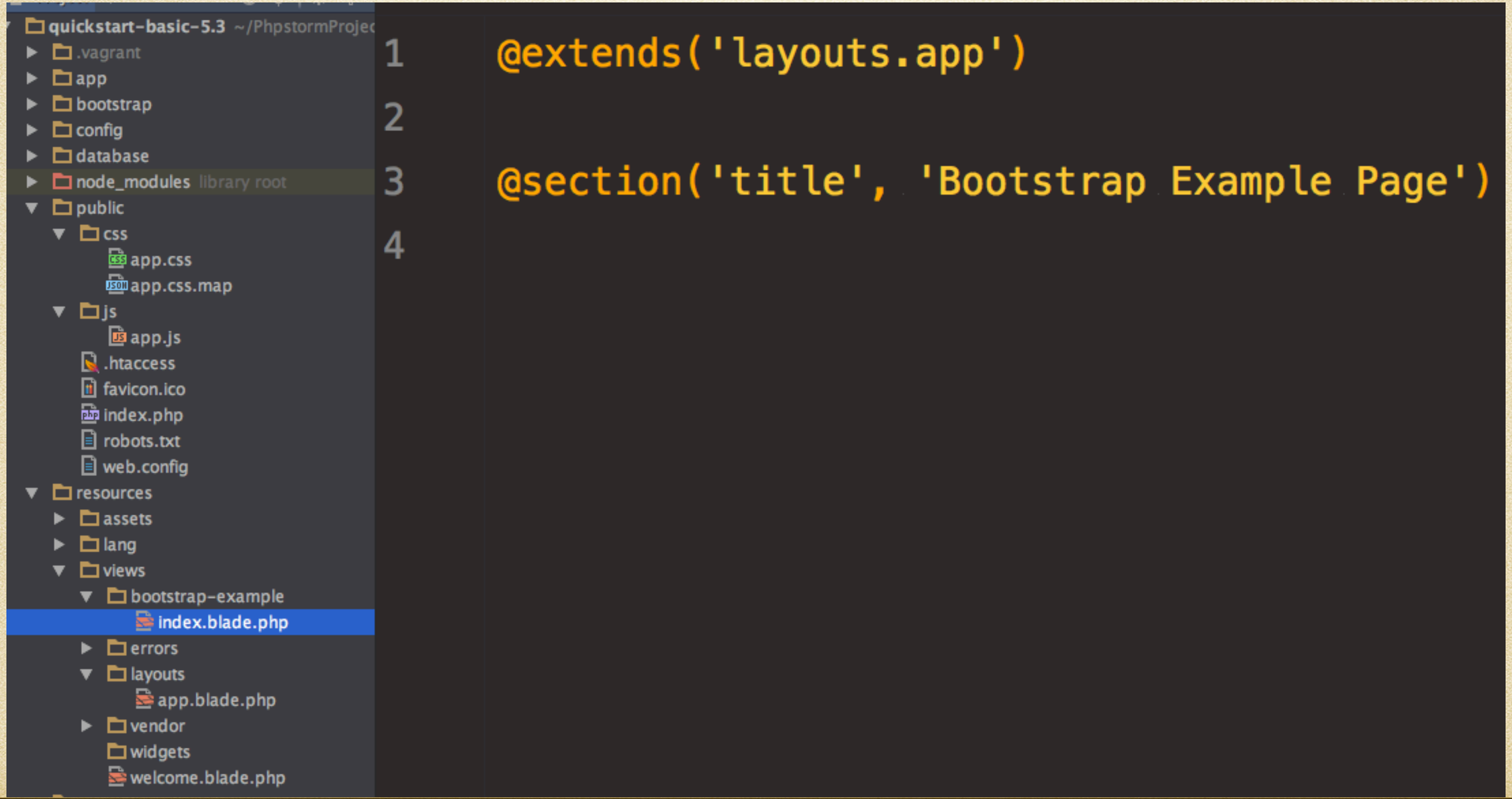
Layouts


quickstart-basic-5.3 ~/PhpstormProjec
.vagrant
app
bootstrap
config
database
node_modules library root
public
css
app.css
app.css.map
js
app.js
.htaccess
favicon.ico
index.php
robots.txt
web.config
resources
assets
lang
views
bootstrap-example
index.blade.php
errors
layouts
app.blade.php
vendor
widgets
welcome.blade.php
routes
storage
tests
vendor
.env
.env.example
.gitattributes
.gitignore
aliases
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<!-- The above 3 meta tags *must* come first in the head; any other head content must come *after* these t
<meta name="description" content="">
<meta name="author" content="">
<link rel="icon" href="../../favicon.ico">
<title>App Name - @yield('title')</title>
<!-- Bootstrap core CSS -->
<link href="/css/app.css" rel="stylesheet">
<script src="/js/app.js"></script>
</head>
<body>
<!-- Fixed navbar -->
<nav class="navbar navbar-inverse navbar-fixed-top">

<button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar"
Toggle navigation

</button>

Example View

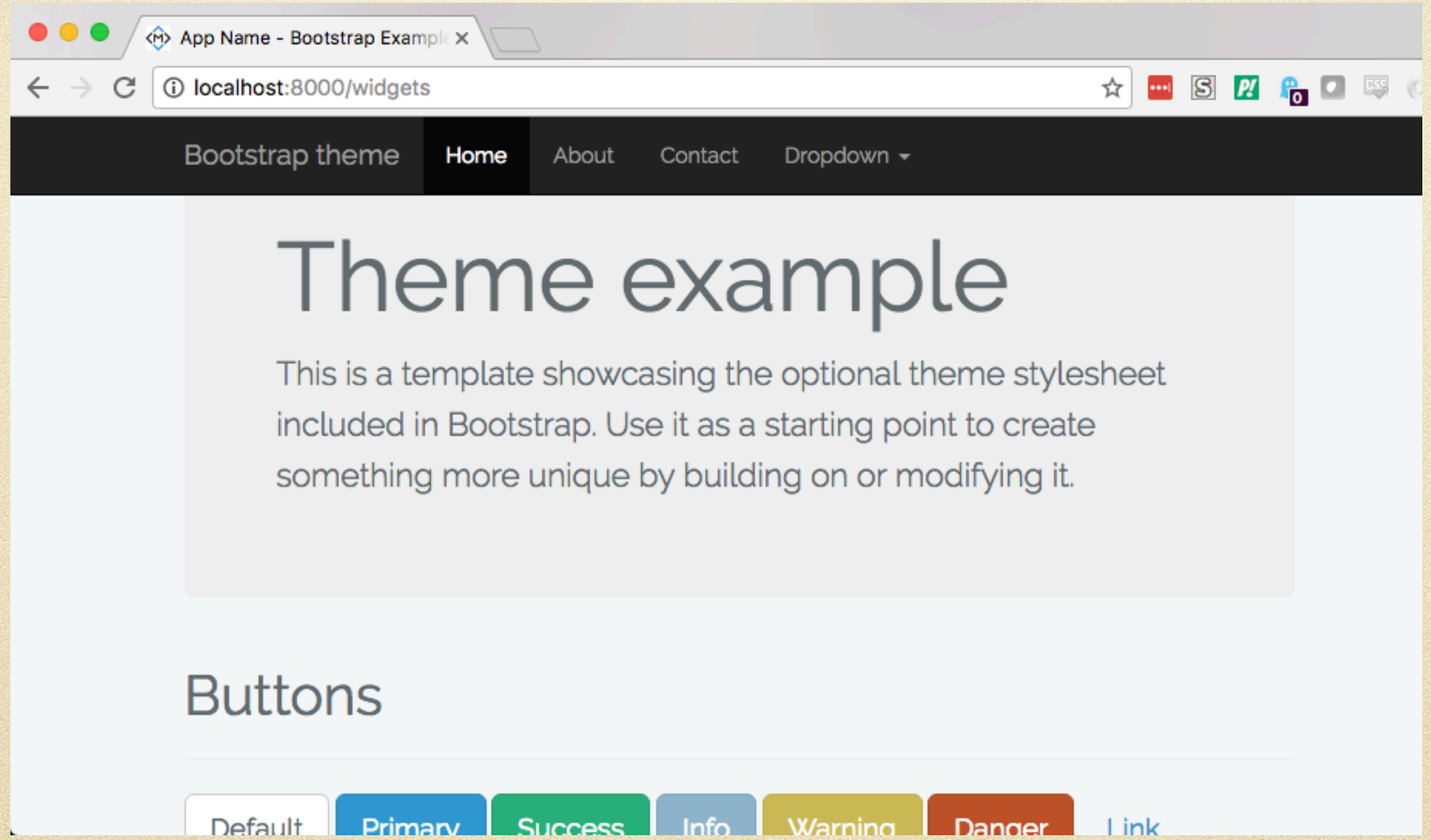


Return a view()

```
19  Route::get('/widgets', function () {
20      $widgets = Widget::all();
21
22      return view('bootstrap-example.index');
23  });
```

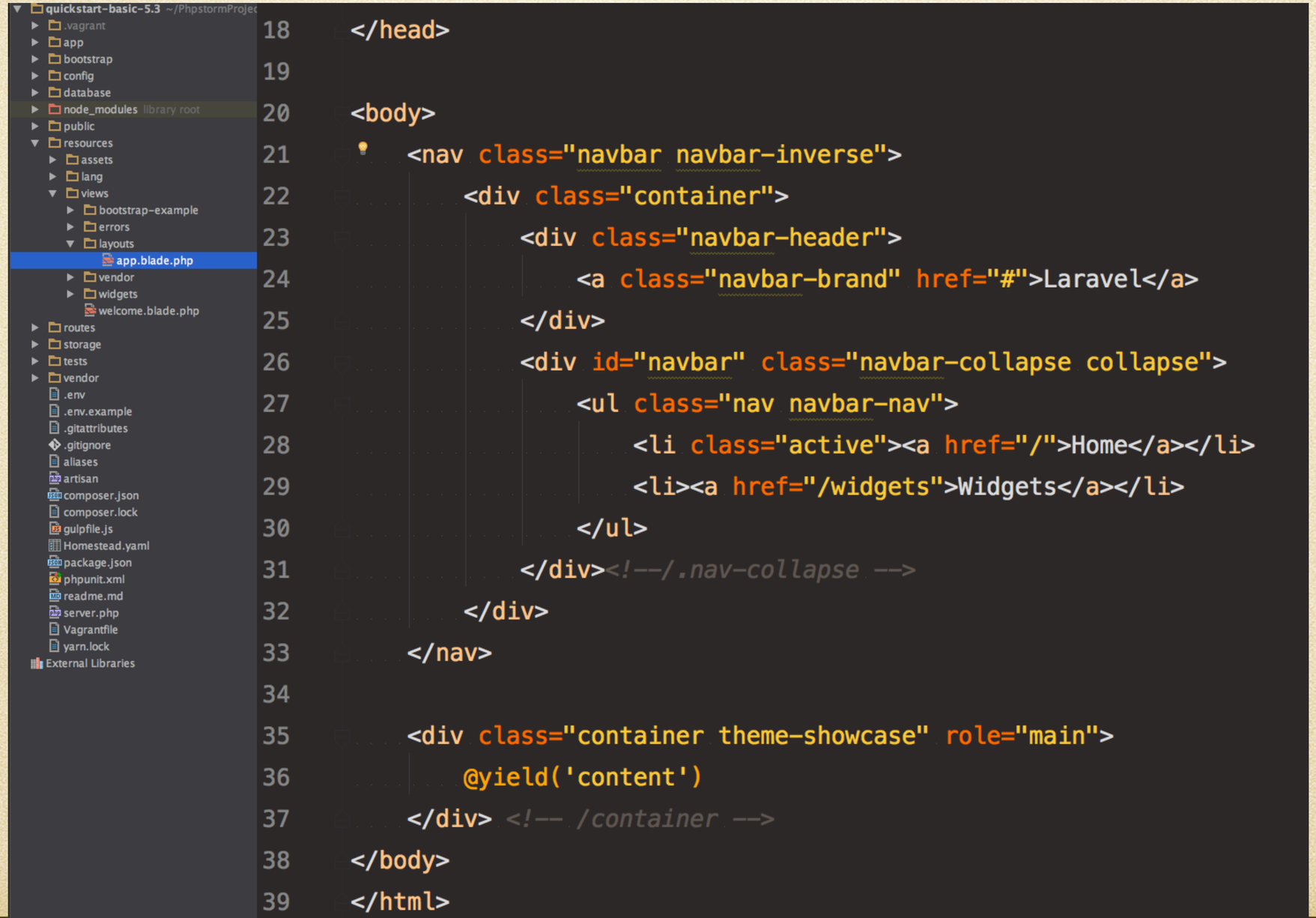
routes/web.php

Refresh /widgets

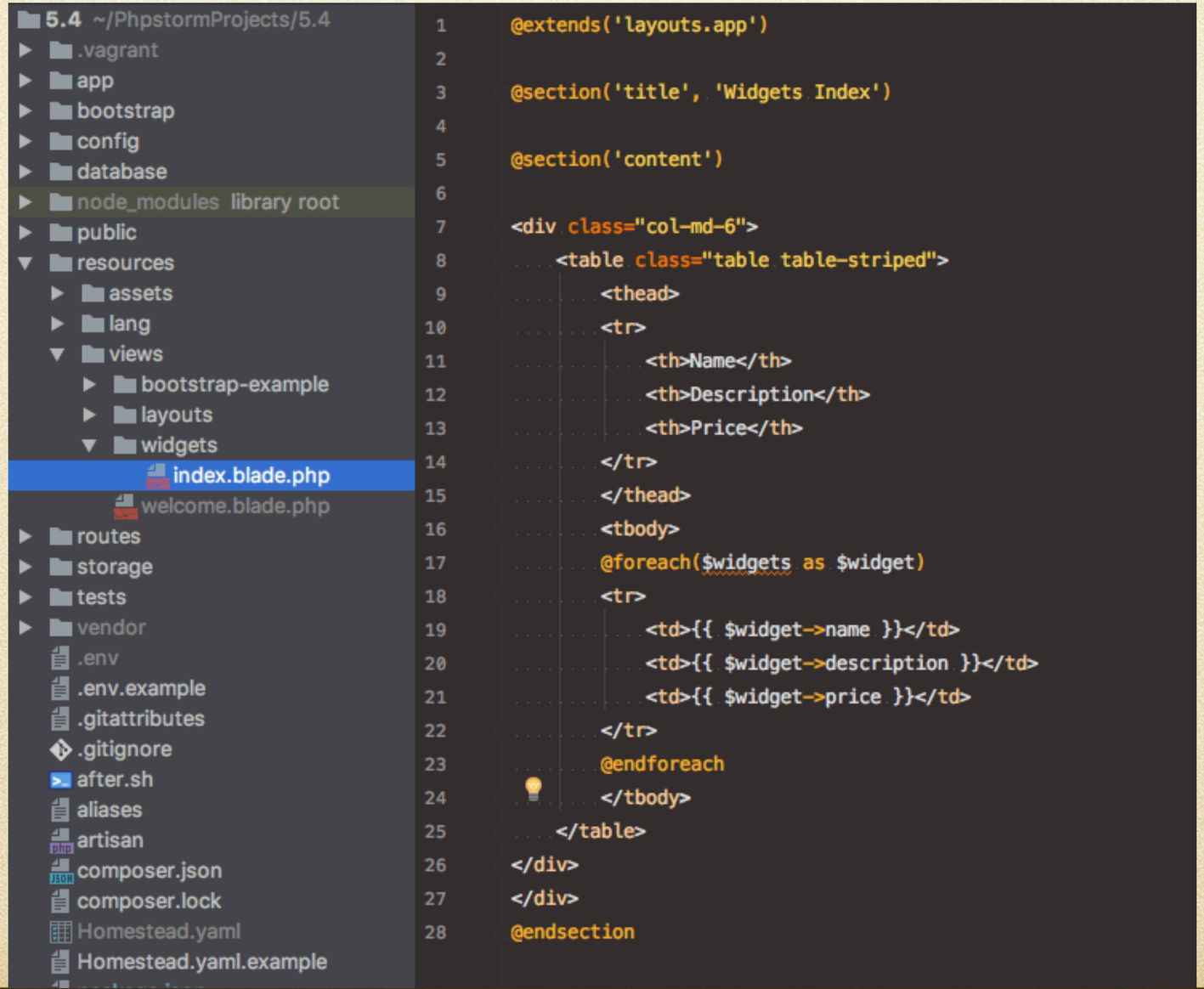


localhost:8000/widgets

Clean up our layout



Widgets Index View



Pass data to a view

```
19  Route::get('/widgets', function () {
20      $widgets = Widget::all();
21
22      return view('widgets.index')
23          ->with('widgets', $widgets);
24  });
```

routes/web.php

localhost:8000/widgets

localhost:8000/widgets

Laravel Home Widgets

Name	Description	Price
cumque Widget	Sit perspiciatis autem quia soluta. Dicta quaerat aliquam nostrum sit quia eligendi dolorem. Omnis voluptas eum et possimus dolor. Fuga minima quam nam ut iusto eos illum ea.	153005.79
delectus Widget	Corrupti reprehenderit et omnis officia ratione cum eligendi. Est nesciunt qui laboriosam eum odit quia ipsam. Et et non quia quia in necessitatibus consequuntur ipsam.	20810.66
impedit Widget	Possimus et magni tempore dolorem sint porro et. Placeat occaecati voluptatem delectus quaerat voluptas. Porro et sapiente quia voluptas facilis animi reiciendis. Ipsam aliquid pariatur commodi amet et quae optio. Veritatis quidem sed sit in doloribus.	593767.83
et Widget	Perspiciatis voluptate odio illo adipisci optio praesentium autem qui. Adipisci ratione sit quis doloribus. Molestiae amet optio quia quaerat tempore	309975.7

localhost:8000/widgets#