Build a simple Blog website using Laravel 5.0

Install Laravel

In this tutorial, we will develop the whole project on local server (by MAMP or WAMP).

1. Build a new webserver using MAMP/WAMP and set the PHP version >= 5.5.9.

    a. In this tutorial, I set **http://laravel:8888** as the project root URL.

2. Install **Composer** in your Terminal/CMD. (refer to: https://getcomposer.org/doc/00-intro.md)

   Mac

   ```
   curl -sS https://getcomposer.org/installer | sudo php -- --install-dir=/usr/local/bin --filename=composer
   ```
   run composer to check if installation success

   Windows

   ```
   C:\Users\username>cd C:\bin
   C:\bin>php -r "readfile('https://getcomposer.org/installer');" | php
   C:\bin>echo @php "%~dp0composer.phar" %*>composer.bat
   ```
   Run the command below to check if installation success

   ```
   C:\Users\username>composer -V
   Composer version 27d8904
   ```

3. In your project file root, enter the command below to install Laravel framework into your project.

   ```
   composer create-project laravel/laravel Laravel_study 5.0.22
   ```
   In this tutorial, we set the folder name as Laravel_study, you can set any other name as you like. If you didn't save composer in your $PATH, you can run:

   ```
   Php /usr/local/bin/composer.phar create-project laravel/laravel Laravel_study 5.0.22
   ```

4. Set `Laravel_study/public` folder as the root of your website in you MAMP/WAMP.

   Check your home page: **http://laravel:8888/** to see if there is a welcome page showing.

Database

1. Create a database in your local MySQL database. (e.g. laravel_db)

2. Configuration

   Edit `Laravel_study/.env` with your editor.

   ```
   DB_HOST=localhost
   DB_DATABASE=laravel_db
   DB_USERNAME=root
   DB_PASSWORD=yourpassword
   ```
   If you are using MAMP, you may need to add:

   ```
   'unix_socket'   => '/Applications/MAMP/tmp/mysql/mysql.sock',
   ```
   into `Laravel_study/config/database.php` mysql array section

3. Initial migration

```
php artisan migrate
```
Check your home page: **http://laravel:8888/home** to see if there is a login page showing.

Note: You may not found home page by this step, if you use laravel 5.1 version.

4. Make Models

```
php artisan make:model Article
php artisan make:model Page
php artisan make:model Comment
```

5. Database Migration

```
php artisan make:migration create_articles_table
php artisan make:migration create_pages_table
php artisan make:migration create_comments_table
```
Edit /database/migrations/***_create_articles_table.php and other files.

```php
Schema::create('articles', function(Blueprint $table)
{
 $table->increments('id');
 $table->string('title');
 $table->string('slug')->nullable();
 $table->text('body')->nullable();
 $table->string('image')->nullable();
 $table->integer('user_id');
 $table->timestamps();
});
```

```php
Schema::create('pages', function(Blueprint $table)
{
 $table->increments('id');
 $table->string('title');
 $table->string('slug')->nullable();
 $table->text('body')->nullable();
 $table->integer('user_id');
 $table->timestamps();
});
```

```php
Schema::create('comments', function(Blueprint $table)
    {
        $table->increments('id');
        $table->string('nickname');
        $table->string('email')->nullable();
        $table->string('website')->nullable();
        $table->text('content')->nullable();
        $table->integer('page_id');
        $table->integer('article_id');
        $table->timestamps();
    });
```
```
php artisan migrate
```

6. Fill data into schema with seeder

7. Create PageTableSeeder.php under /database/seeds/

```php
use Illuminate\Database\Seeder;
use App\Page;

class PageTableSeeder extends Seeder {

public function run()
```

```
  {
    DB::table('pages')->delete();

    for ($i=0; $i < 10; $i++) {
      Page::create([
        'title'   => 'Title '.$i,
        'slug'    => 'first-page',
        'body'    => 'Body '.$i,
        'user_id' => 1,
      ]);
    }
  }
```

8. Create **ArticleTableSeeder.php** under **/database/seeds/**

```php
use Illuminate\Database\Seeder;
use App\Article;

class ArticleTableSeeder extends Seeder {

public function run()
{
  DB::table('articles')->delete();

  for ($i=0; $i < 10; $i++) {
    Article::create([
      'title'   => 'Article '.$i,
      'slug'    => 'first-article',
      'body'    => 'Blog Content '.$i,
      'user_id' => 1,
    ]);
  }
}
}
```

9. Edit **DatabaseSeeder.php** under **/database/seeds/**

```php
    public function run()
    {
        Model::unguard();

        $this->call('PageTableSeeder');
        $this->call('ArticleTableSeeder');

        Model::reguard();
    }
```

```
composer dump-autoload

php artisan db:seed
```
Check your database to see if there are data in the tables.

Routing

In **/app/Http/routes.php** file

```php
    // Authentication routes...
    Route::get('auth/login', 'Auth\AuthController@getLogin');
    Route::post('auth/login', 'Auth\AuthController@postLogin');
    Route::get('auth/logout', 'Auth\AuthController@getLogout');
```

```
// Registration routes...
Route::get('auth/register', 'Auth\AuthController@getRegister');
Route::post('auth/register', 'Auth\AuthController@postRegister');

//home page
Route::get('/', 'HomeController@index');

//admin pages
Route::group(['prefix' => 'admin', 'namespace' => 'Admin', 'middleware' =>
'auth'], function()
    {
        Route::get('/', 'AdminHomeController@index');
        Route::resource('pages', 'PagesController');
        Route::resource('articles', 'ArticlesController');
        Route::resource('comments', 'CommentsController');
    });
//web pages
Route::get('pages/{id}', 'PagesController@show');
//blog articles
Route::get('articles/{id}', 'ArticlesController@show');
//comments submit
Route::post('comment/store', 'CommentsController@store');
```
It's worth noting that the new namespace system in Laravel5

Home Page

1. As we set in `routes.php`

   ```
   //home page
   Route::get('/', 'HomeController@index');
   ```
   We need to edit `HomeController.php` first.

   ```php
   use App\Page;
   use App\Article;

   class HomeController extends Controller {

   public function index()
   {
        return view('home')->withPages(Page::all())->withArticles(Article::all());
   }
   ```

2. Create `/resources/views/_layouts/default.blade.php` file

   ```html
   <!DOCTYPE html>
   <html lang="zh-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">
     <title>Learn Laravel 5</title>

     <link href="/css/app.css" rel="stylesheet">

   </head>
   <body>

     <div class="container" style="margin-top: 20px;">
       @yield('content')
       <div id="footer" style="text-align: center; border-top: dashed 3px #eeeeee;
   margin: 50px 0; padding: 20px;">
   @2015 Linghang Laravel Tutorial
   ```

```
<a href="{{ URL('admin/')}}">Admin Panel</a>
    </div>
  </div>



</body>
</html>
```

3. Edit **/resources/views/home.blade.php** file

```
@extends('_layouts.default')

@section('content')
    <div id="title" style="text-align: center;">
        <h1>Learn Laravel 5</h1>
        <div style="padding: 5px; font-size: 16px;">{{ Inspiring::quote() }}</div>
    </div>
    <hr>
    <div id="content">
      <div class="row">
        <div class="col-md-6 col-sm-6">
        <ul>
          @foreach ($pages as $page)
          <li style="margin: 50px 0;">
            <div class="title">
                <a href="{{ URL('pages/'.$page->id) }}">
                    <h4>{{ $page->title }}</h4>
                </a>
            </div>
            <div class="body">
                <p>{{ $page->body }}</p>
            </div>
          </li>
          @endforeach
        </ul>
        </div>
        <div class="col-md-6 col-sm-6">
              <ul>
                  @foreach ($articles as $article)
                  <li style="margin: 50px 0;">
                    <div class="title">
                        <a href="{{ URL('pages/'.$article->id) }}">
                            <h4>{{ $article->title }}</h4>
                        </a>
                    </div>
                    <div class="body">
                        <p>{{ $article->body }}</p>
                    </div>
                  </li>
                  @endforeach
              </ul>
              </div>
      </div>
```

```
    </div>
@endsection
```

You can check you home page **http://laravel:8888/** now, to see all the articles and pages.

Single Article Page

1. As we set in `routes.php`

```
//blog articles
Route::get('articles/{id}', 'ArticlesController@show');
```

   Create `ArticlesController.php` first.

```
php artisan make:controller ArticlesController
```

2. Edit `ArticlesController.php`

```php
use App\Article;
class ArticlesController extends Controller
{
public function show($id)
{
    return view('articles.show')->withArticle(Article::find($id));
}
```

3. Create `/resources/views/articles/show.blade.php`

```php
@extends('_layouts.default')

@section('content')
  <h4>
    <a href="/">Back to Homepage</a>
  </h4>

  <h1 style="text-align: center; margin-top: 50px;">{{ $article->title }}</h1>
    <hr>
    <div id="date" style="text-align: right;">
     {{ $article->updated_at }}
    </div>
    <div id="content" style="padding: 50px;">
      <p>
        {{ $article->body }}
      </p>
    </div>
    <div id="comments" style="margin-bottom: 100px;">

      @if (count($errors) > 0)
        <div class="alert alert-danger">
          <strong>Whoops!</strong> There were some problems with your
input.<br><br>
          <ul>
            @foreach ($errors->all() as $error)
              <li>{{ $error }}</li>
            @endforeach
          </ul>
        </div>
      @endif

      <div id="new">
        <form action="{{ URL('comment/store') }}" method="POST">
          <input type="hidden" name="_token" value="{{ csrf_token() }}">
          <input type="hidden" name="article_id" value="{{ $article->id }}">
          <div class="form-group">
            <label>Nickname</label>
            <input type="text" name="nickname" class="form-control" style="width:
```

```
300px;" required="required">
          </div>
          <div class="form-group">
            <label>Email address</label>
            <input type="email" name="email" class="form-control" style="width:
300px;">
          </div>
          <div class="form-group">
            <label>Home page</label>
            <input type="text" name="website" class="form-control" style="width:
300px;">
          </div>
          <div class="form-group">
            <label>Content</label>
            <textarea name="content" id="newFormContent" class="form-control"
rows="10" required="required"></textarea>
          </div>
          <button type="submit" class="btn btn-lg btn-success col-lg-
12">Submit</button>
        </form>
      </div>

  <script>
  function reply(a) {
    var nickname =
a.parentNode.parentNode.firstChild.nextSibling.getAttribute('data');
    var textArea = document.getElementById('newFormContent');
    textArea.innerHTML = '@'+nickname+' ';
  }
  </script>

      <div class="conmments" style="margin-top: 100px;">
        @foreach ($article->hasManyComments as $comment)

          <div class="one" style="border-top: solid 20px #efefef; padding: 5px
20px;">
            <div class="nickname" data="{{ $comment->nickname }}">
            @if ($comment->website)
              <a href="{{ $comment->website }}">
                <h3>{{ $comment->nickname }}</h3>
              </a>
            @else
              <h3>{{ $comment->nickname }}</h3>
            @endif
              <h6>{{ $comment->created_at }}</h6>
            </div>
            <div class="content">
              <p style="padding: 20px;">
                {{ $comment->content }}
              </p>
            </div>
            <div class="reply" style="text-align: right; padding: 5px;">
              <a href="#new" onclick="reply(this);">Reply</a>
            </div>
          </div>

        @endforeach
      </div>
    </div>
  @endsection
```
You can check you article pages (e.g. **http://laravel:8888/articles/1**) now, to see the articles page.

Normal Web Page

1. It is almost the same with article pages. As we set in `routes.php`

```
//web pages
Route::get('pages/{id}', 'PagesController@show');
```

   Create `PagesController.php` first.

```
php artisan make:controller PagesController
```

2. Edit `PagesController.php`

```php
use App\Page;
class PagesController extends Controller
 {
public function show($id)
{
    return view('pages.show')->withPage(Page::find($id));

}
```

3. Create `/resources/views/pages/show.blade.php`

```php
@extends('_layouts.default')

@section('content')
  <h4>
    <a href="/">Back to Homepage</a>
  </h4>

  <h1 style="text-align: center; margin-top: 50px;">{{ $page->title }}</h1>
    <hr>
    <div id="date" style="text-align: right;">
      {{ $page->updated_at }}
    </div>
    <div id="content" style="padding: 50px;">
      <p>
        {{ $page->body }}
      </p>
    </div>
      @endsection
```

You can check pages (e.g. **http://laravel:8888/pages/1**) now, to see the normal page.

Admin Panel

1. We check our route file again

```
//admin pages
Route::group(['prefix' => 'admin', 'namespace' => 'Admin', 'middleware' =>
'auth'], function()
    {
        Route::get('/', 'AdminHomeController@index');
        Route::resource('pages', 'PagesController');
        Route::resource('articles', 'ArticlesController');
        Route::resource('comments', 'CommentsController');
    });
```

`'prefix' => 'admin'` means http://laravel:8888/admin

`'namespace' => 'Admin'` means file location is
\App\Http\Controllers\Admin\AdminHomeController@index

`'middleware'=>'auth'` means access admin pages need to pass authentication process first

2. Create `Admin/AdminHomeController.php`

```
php artisan make:controller Admin/AdminHomeController
```

3. Edit `Admin/AdminHomeController.php`

```
use App\Page;
use App\Article;

class AdminHomeController extends Controller
{
    public function index()
    {
   return view('AdminHome')->withPages(Page::all())->withArticles(Article::all());
    }
```

4. Create `/resources/views/AdminHome.blade.php` page

```
@extends('app')

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-6 col-sm-6">
      <div class="panel panel-default">
        <div class="panel-heading">All Pages</div>

        <div class="panel-body">
          @foreach ($pages as $page)
            <div class="page row">
            <a href="{{ URL('pages/'.$page->id) }}" target="_blank">
              <h4>{{ $page->title }}</h4>
              </a>

            <a href="{{ URL('admin/pages/'.$page->id.'/edit') }}" class="btn btn-
success">Edit</a>

            <form action="{{ URL('admin/pages/'.$page->id) }}" method="POST"
```

```
style="display: inline;">
                <input name="_method" type="hidden" value="DELETE">
                <input type="hidden" name="_token" value="{{ csrf_token() }}">
                <button type="submit" class="btn btn-danger">Delete</button>
            </form>
            </div>
                            <hr>
            @endforeach

          </div>
        </div>
      </div>

          <div class="col-md-6 col-sm-6">
            <div class="panel panel-default">
              <div class="panel-heading">All Articles</div>

              <div class="panel-body">
                @foreach ($articles as $article)
                  <div class="page">
                  <a href="{{ URL('articles/'.$article->id) }}" target="_blank">
                    <h4>{{ $article->title }}</h4>
                    </a>

                  <a href="{{ URL('admin/articles/'.$article->id.'/edit') }}"
class="btn btn-success">Edit</a>

                <form action="{{ URL('admin/articles/'.$article->id) }}"
method="POST" style="display: inline;">
                    <input name="_method" type="hidden" value="DELETE">
                    <input type="hidden" name="_token" value="{{ csrf_token() }}">
                    <button type="submit" class="btn btn-danger">Delete</button>
                </form>
                </div>
                                <hr>
                @endforeach

            </div>
          </div>
        </div>
  </div>
</div>
@endsection
```

5. Edit `/resources/views/app.blade.php` page, as the header file for admin pages.

```
<!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">
    <title>Laravel</title>

    <link href="/css/app.css" rel="stylesheet">
</head>
<body>
    <nav class="navbar navbar-default">
        <div class="container-fluid">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#bs-example-navbar-collapse-1">
                    <span class="sr-only">Toggle Navigation</span>
                    <span class="icon-bar"></span>
```

```html
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <a class="navbar-brand" href="/">Learn Laravel 5</a>
        </div>

        <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
            <ul class="nav navbar-nav">
                <li><a href="/admin">Dashboard</a></li>
                <li><a href="/admin/pages">Manage Pages</a></li>
                <li><a href="/admin/articles">Manage Articles</a></li>
                <li><a href="/admin/comments">Manage Comments</a></li>
            </ul>

            <ul class="nav navbar-nav navbar-right">
                @if (Auth::guest())
                    <li><a href="/auth/login">Login</a></li>
                    <li><a href="/auth/register">Register</a></li>
                @else
                    <li class="dropdown">
                        <a href="#" class="dropdown-toggle" data-toggle="dropdown"
role="button" aria-expanded="false">{{ Auth::user()->name }} <span
class="caret"></span></a>
                        <ul class="dropdown-menu" role="menu">
                            <li><a href="/auth/logout">Logout</a></li>
                        </ul>
                    </li>
                @endif
            </ul>
        </div>
    </div>
</nav>

@yield('content')

<!-- Scripts -->
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></scrip
t>
</body>
</html>
```

You can check admin panel dashboard pages (e.g. **http://laravel:8888/admin**) now.

Admin Article Edit

1. As we set in `routes.php`

```
Route::group(['prefix' => 'admin', 'namespace' => 'Admin', 'middleware' =>
'auth'], function()
    {
        Route::resource('articles', 'ArticlesController');
```

Create `Admin/ArticlesController.php` first.

```
php artisan make:controller Admin/ArticlesController
```

2. Edit `Admin/ArticlesController.php`

```php
use App\Article;
use Redirect, Input, Auth;
class ArticlesController extends Controller
{
    public function index()
    {
        return view('admin.articles.index')->withArticles(Article::all());
    }
public function create()
{
    return view('admin.articles.create');
}
public function store(Request $request)
{
    $this->validate($request, [
            'title' => 'required|unique:articles|max:255',
            'body' => 'required',
        ]);

    $article = new Article();
    $article->title = Input::get('title');
    $article->body = Input::get('body');
    $article->user_id = 1;//Auth::user()->id;

    if ($article->save()) {
        return Redirect::to('admin/articles');
    } else {
        return Redirect::back()->withInput()->withErrors('Save Error!');
    }
}
public function edit($id)
{
    return view('admin.articles.edit')->withArticles(Article::find($id));
}
public function update(Request $request,$id)
{
    $this->validate($request, [
            'title' => 'required|unique:articles,title,'.$id.'|max:255',
            'body' => 'required',
        ]);

    $article = Article::find($id);
    $article->title = Input::get('title');
    $article->body = Input::get('body');
    $article->user_id = 1;//Auth::user()->id;
```

```
        if ($article->save()) {
            return Redirect::to('admin/articles');
        } else {
            return Redirect::back()->withInput()->withErrors('Save Error!');
        }
    }
}
public function destroy($id)
{
    $article = Article::find($id);
    $article->delete();

    return Redirect::to('admin/articles');
}
```

3. Create `/resources/views/admin/articles/index.blade.php` page

```
@extends('app')

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-10 col-md-offset-1">
      <div class="panel panel-default">
        <div class="panel-heading">Manage Articles</div>

        <div class="panel-body">

        <a href="{{ URL('admin/articles/create') }}" class="btn btn-lg btn-
primary">Create New Article</a>

            @foreach ($articles as $article)
              <hr>
              <div class="page">
                <h4>{{ $article->title }}</h4>
                <div class="content">
                  <p>
                    {{ $article->body }}
                  </p>
                </div>
              </div>
              <a href="{{ URL('admin/articles/'.$article->id.'/edit') }}"
class="btn btn-success">Edit</a>

              <form action="{{ URL('admin/articles/'.$article->id) }}"
method="POST" style="display: inline;">
                <input name="_method" type="hidden" value="DELETE">
                <input type="hidden" name="_token" value="{{ csrf_token() }}">
                <button type="submit" class="btn btn-danger">Delete</button>
              </form>
            @endforeach

        </div>
      </div>
    </div>
  </div>
</div>
@endsection
```

4. Create /resources/views/admin/articles/create.blade.php page

```
@extends('app')

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-10 col-md-offset-1">
      <div class="panel panel-default">
        <div class="panel-heading">Create Article</div>

        <div class="panel-body">

          @if (count($errors) > 0)
            <div class="alert alert-danger">
              <strong>Whoops!</strong> There were some problems with your
input.<br><br>
              <ul>
                @foreach ($errors->all() as $error)
                  <li>{{ $error }}</li>
                @endforeach
              </ul>
            </div>
          @endif

          <form action="{{ URL('admin/articles') }}" method="POST">
            <input type="hidden" name="_token" value="{{ csrf_token() }}">
            <input type="text" name="title" class="form-control"
required="required">
            <br>
            <textarea name="body" rows="10" class="form-control"
required="required"></textarea>
            <br>
            <button class="btn btn-lg btn-info">Create Article</button>
          </form>

        </div>
      </div>
    </div>
  </div>
</div>
@endsection
```

5. Create /resources/views/admin/articles/edit.blade.php page

```
@extends('app')

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-10 col-md-offset-1">
      <div class="panel panel-default">
        <div class="panel-heading">Edit Article</div>

        <div class="panel-body">

          @if (count($errors) > 0)
            <div class="alert alert-danger">
              <strong>Whoops!</strong> There were some problems with your
input.<br><br>
              <ul>
                @foreach ($errors->all() as $error)
                  <li>{{ $error }}</li>
                @endforeach
```

```
            </ul>
          </div>
        @endif

        <form action="{{ URL('admin/articles/'.$articles->id) }}"
method="POST">
            <input name="_method" type="hidden" value="PUT">
            <input type="hidden" name="_token" value="{{ csrf_token() }}">
            <input type="text" name="title" class="form-control"
required="required" value="{{ $articles->title }}">
            <br>
            <textarea name="body" rows="10" class="form-control"
required="required">{{ $articles->body }}</textarea>
            <br>
            <button class="btn btn-lg btn-info">Edit Article</button>
        </form>

      </div>
    </div>
  </div>
</div>
@endsection
```

Now you can try to edit Articles pages in **http://laravel:8888/admin/articles**

Admin Normal Page Edit

This part is almost the same with article pages. By this step, you should be able to develop these files by yourself by repeat the steps above and try to understand the mechanism of Laravel now.

Comments Editing in Admin Panel

We have built Comment Model already. We need to set one-multi relationship between Model Article and Comment as well as between Model Page and Comment, since we need to retrieve all comments related to each page/article and edit them.

1. Modify `/app/Http/Article.php`

```php
<?php namespace App;

use Illuminate\Database\Eloquent\Model;

class Article extends Model
{
    public function hasManyComments()
    {
        return $this->hasMany('App\Comment', 'article_id', 'id');
    }
}
```

2. Modify `/app/Http/Page.php`

```php
<?php namespace App;

use Illuminate\Database\Eloquent\Model;

class Page extends Model {

  public function hasManyComments()
  {
    return $this->hasMany('App\Comment', 'page_id', 'id');
  }
```

3. Modify `/app/Http/Comment.php`

```php
class Comment extends Model
{
    protected $fillable = ['nickname', 'email', 'website', 'content', 'page_id', 'article_id'];
}
```

4. As we set in `routes.php`

```php
//comments submit
Route::post('comment/store', 'CommentsController@store');
//admin pages
Route::group(['prefix' => 'admin', 'namespace' => 'Admin', 'middleware' => 'auth'], function()
    {
        Route::resource('comments', 'CommentsController');
```

Create `CommentsController.php` first for front-end comments submit

```
php artisan make:controller CommentsController
```

Create Admin/`CommentsController.php` first for admin comments editing

```
php artisan make:controller Admin/CommentsController
```

5. Edit `CommentsController.php`

```php
use Redirect, Input;
use App\Comment;
class CommentsController extends Controller
{
….
public function store()
{
    if (Comment::create(Input::all())) {
        return Redirect::back();
    } else {
        return Redirect::back()->withInput()->withErrors('Comment publish
fail!');
    }
}
}
…..
```

6. Edit `Admin/CommentsController.php`

```php
use App\Comment;
use Redirect, Input, Auth;

class CommentsController extends Controller
{
    public function index()
    {
    return view('admin.comments.index')->withComments(Comment::all());
    }

    public function edit($id)
    {
    return view('admin.comments.edit')->withComment(Comment::find($id));
    }

    public function update(Request $request, $id)
    {
    $this->validate($request, [
            'nickname' => 'required',
            'content' => 'required',
        ]);
    if (Comment::where('id', $id)->update(Input::except(['_method',
'_token']))) {
        return Redirect::to('admin/comments');
    } else {
        return Redirect::back()->withInput()->withErrors('Update Fail!');
    }
    }

    public function destroy($id)
    {
    $comment = Comment::find($id);
    $comment->delete();

    return Redirect::to('admin/comments');
    }
}
```

7. Add the code below to `/resources/views/pages/show.blade.php` and `/resources/views/articles/show.blade.php` to add comments function into each page and articles.

```html
<div id="comments" style="margin-bottom: 100px;">

    @if (count($errors) > 0)
      <div class="alert alert-danger">
        <strong>Whoops!</strong> There were some problems with your
input.<br><br>
        <ul>
          @foreach ($errors->all() as $error)
            <li>{{ $error }}</li>
          @endforeach
        </ul>
      </div>
    @endif

    <div id="new">
      <form action="{{ URL('comment/store') }}" method="POST">
        <input type="hidden" name="_token" value="{{ csrf_token() }}">
        <input type="hidden" name="page_id" value="{{ $page->id }}">
        <div class="form-group">
          <label>Nickname</label>
          <input type="text" name="nickname" class="form-control" style="width:
300px;" required="required">
        </div>
        <div class="form-group">
          <label>Email address</label>
          <input type="email" name="email" class="form-control" style="width:
300px;">
        </div>
        <div class="form-group">
          <label>Home page</label>
          <input type="text" name="website" class="form-control" style="width:
300px;">
        </div>
        <div class="form-group">
          <label>Content</label>
          <textarea name="content" id="newFormContent" class="form-control"
rows="10" required="required"></textarea>
        </div>
        <button type="submit" class="btn btn-lg btn-success col-lg-
12">Submit</button>
      </form>
    </div>

  <script>
  function reply(a) {
    var nickname =
a.parentNode.parentNode.firstChild.nextSibling.getAttribute('data');
    var textArea = document.getElementById('newFormContent');
    textArea.innerHTML = '@'+nickname+' ';
  }
  </script>

    <div class="comments" style="margin-top: 100px;">
      @foreach ($page->hasManyComments as $comment)

        <div class="one" style="border-top: solid 20px #efefef; padding: 5px
20px;">
          <div class="nickname" data="{{ $comment->nickname }}">
          @if ($comment->website)
            <a href="{{ $comment->website }}">
              <h3>{{ $comment->nickname }}</h3>
            </a>
          @else
            <h3>{{ $comment->nickname }}</h3>
```

```
              @endif
                <h6>{{ $comment->created_at }}</h6>
              </div>
              <div class="content">
                <p style="padding: 20px;">
                  {{ $comment->content }}
                </p>
              </div>
              <div class="reply" style="text-align: right; padding: 5px;">
                <a href="#new" onclick="reply(this);">Reply</a>
              </div>
            </div>

          @endforeach
        </div>
      </div>
```

Now you should be able to add/reply comments on all pages and articles.

8. Create /resources/views/admin/comments/index.blade.php

```
@extends('app')

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-10 col-md-offset-1">
      <div class="panel panel-default">
        <div class="panel-heading">Manage Comments</div>

        <div class="panel-body">

        <table class="table table-striped">
          <tr class="row">
            <th class="col-lg-4">Content</th>
            <th class="col-lg-2">User</th>
            <th class="col-lg-4">Page</th>
            <th class="col-lg-1">Edit</th>
            <th class="col-lg-1">Delete</th>
          </tr>
          @foreach ($comments as $comment)
            <tr class="row">
              <td class="col-lg-6">
                {{ $comment->content }}
              </td>
              <td class="col-lg-2">
                @if ($comment->website)
                    <h4>{{ $comment->nickname }}</h4>
                @else
                  <h3>{{ $comment->nickname }}</h3>
                @endif
                {{ $comment->email }}
              </td>
              <td class="col-lg-4">
              @if($comment->page_id)
                <a href="{{ URL('pages/'.$comment->page_id) }}" target="_blank">
                  {{ App\Page::find($comment->page_id)->title }}
                </a>
                @elseif($comment->article_id)
                <a href="{{ URL('articles/'.$comment->article_id) }}"
target="_blank">
                    {{ App\Article::find($comment->article_id)->title }}
```

```
                </a>
              @endif
              </td>
              <td class="col-lg-1">
                <a href="{{ URL('admin/comments/'.$comment->id.'/edit') }}"
class="btn btn-success">Edit</a>
              </td>
              <td class="col-lg-1">
                <form action="{{ URL('admin/comments/'.$comment->id) }}"
method="POST" style="display: inline;">
                    <input name="_method" type="hidden" value="DELETE">
                    <input type="hidden" name="_token" value="{{ csrf_token() }}">
                    <button type="submit" class="btn btn-danger">Delete</button>
                </form>
              </td>
            </tr>
          @endforeach
        </table>


      </div>
    </div>
  </div>
  </div>
</div>
@endsection
```

9. Create /resources/views/admin/comments/edit.blade.php

```
@extends('app')

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-10 col-md-offset-1">
      <div class="panel panel-default">
        <div class="panel-heading">Edit Comments</div>

        <div class="panel-body">

          @if (count($errors) > 0)
            <div class="alert alert-danger">
              <strong>Whoops!</strong> There were some problems with your
input.<br><br>
              <ul>
                @foreach ($errors->all() as $error)
                  <li>{{ $error }}</li>
                @endforeach
              </ul>
            </div>
          @endif

          <form action="{{ URL('admin/comments/'.$comment->id) }}" method="POST">
            <input name="_method" type="hidden" value="PUT">
            <input type="hidden" name="_token" value="{{ csrf_token() }}">
            <input type="hidden" name="page_id" value="{{ $comment->page_id }}">
            Nickname: <input type="text" name="nickname" class="form-control"
required="required" value="{{ $comment->nickname }}">
            <br>
            Email:
            <input type="text" name="email" class="form-control"
required="required" value="{{ $comment->email }}">
```

```
            <br>
            Website:
            <input type="text" name="website" class="form-control"
required="required" value="{{ $comment->website }}">
            <br>
            Content:
            <textarea name="content" rows="10" class="form-control"
required="required">{{ $comment->content }}</textarea>
            <br>
            <button class="btn btn-lg btn-info">Submit</button>
        </form>

      </div>
    </div>
   </div>
 </div>
</div>
@endsection
```

Now you should be able to edit comments on **http://laravel:8888/admin/comments**

Final Test

By this step, you have accomplished a simple blog system. It's not complex nor perfect comparing with Wordpress, but you should have an idea of how to build a CMS website using Laravel.

Before put it online, you have to do more local test, including every page access, responsive layout on different browsers, etc.

To improve your website, you can:

a. spend more time on view templates to make it looks more professional and user friendly.

b. Explore the documentation of Laravel to learn more advanced functions to make your website

    more powerful, such as CRM (clients relationship management system).

Have fun with your own website!

YJ @2015