

INDEPENDENT STUDY

Content Management System

using

Symfony 2

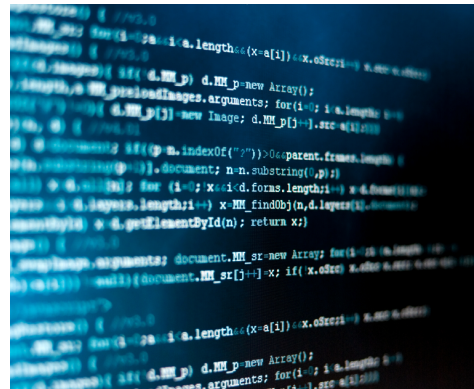
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Motivation for this Independent study

- Started using PHP in my internship
- Struggled with old unstructured PHP code to do modification.
- PHP uses OOPS but no standard established and lacks documentation.
- That is the reason why most programmers hate to use PHP



Where I started?

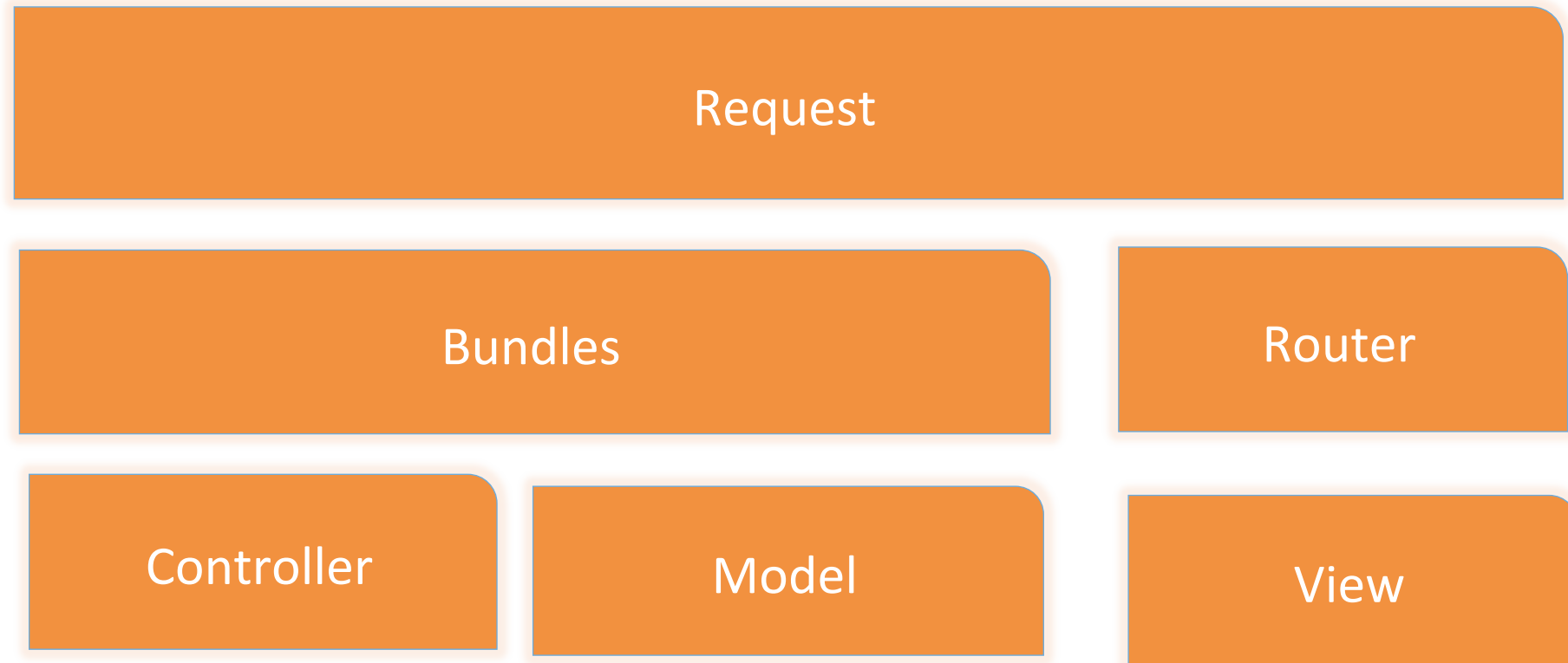
- Explored various Php frameworks.
- Found Symfony2 as better and started using it.
- Started with some basics programming using php.



Learning Curve

- Studied about various CMS available in market & analyzed the differences between ASP.Net and Symfony 2.
- Studied the basics of working with Symfony2
 - Routing structure, Controllers, Entity Relationship
 - Output rendering with twigs
- Created my own bundle [Blogging package].
- Started using vendor packages and their configurations.
- Created dependent bundles.
- Build a complete blog management and media support pages.

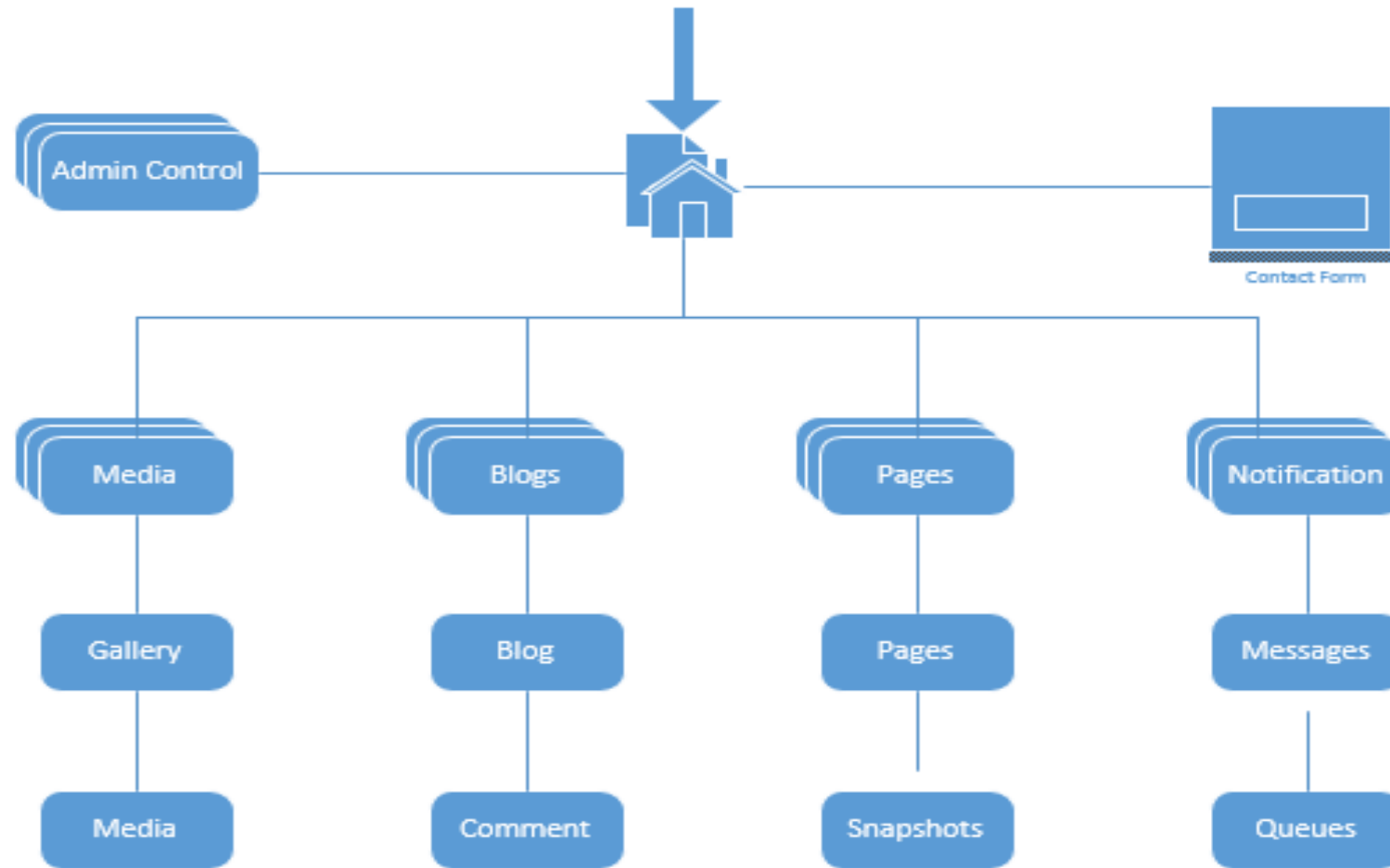
Symfony2 Structure & Page Rendering



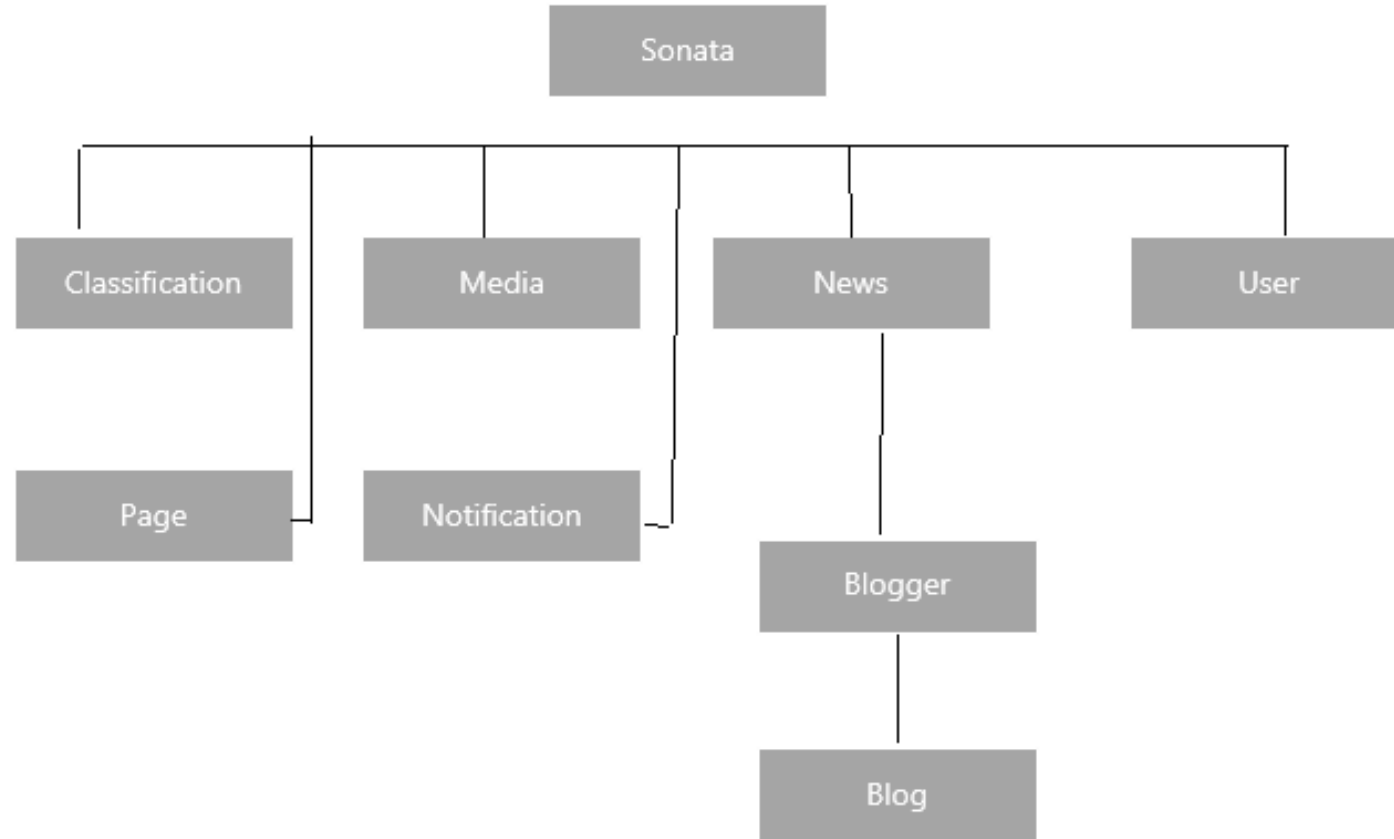
Contents of my website

- Blog Management
- Comment Management
- User Management
- Media support for the website
- Notification Management
- Menu Management

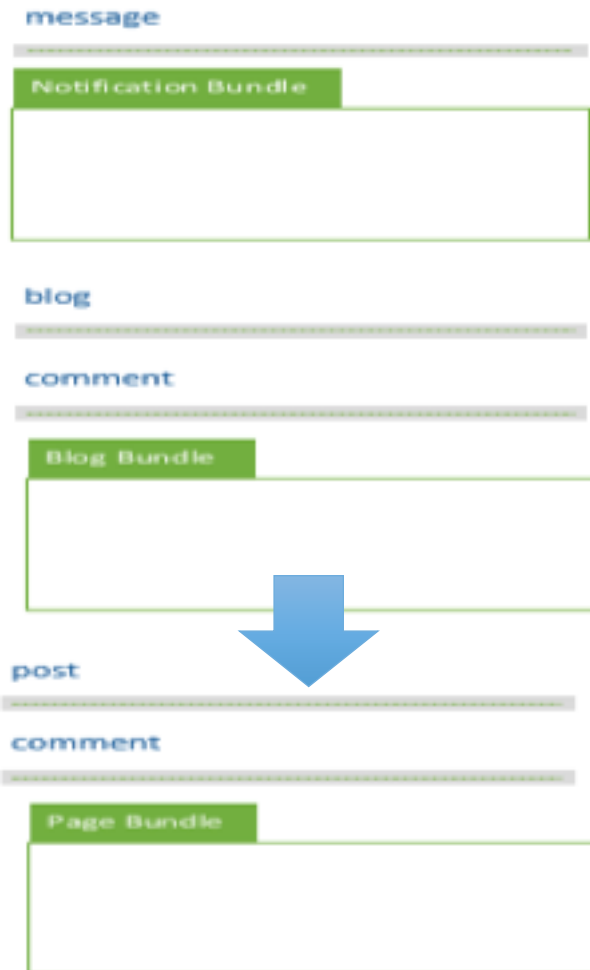
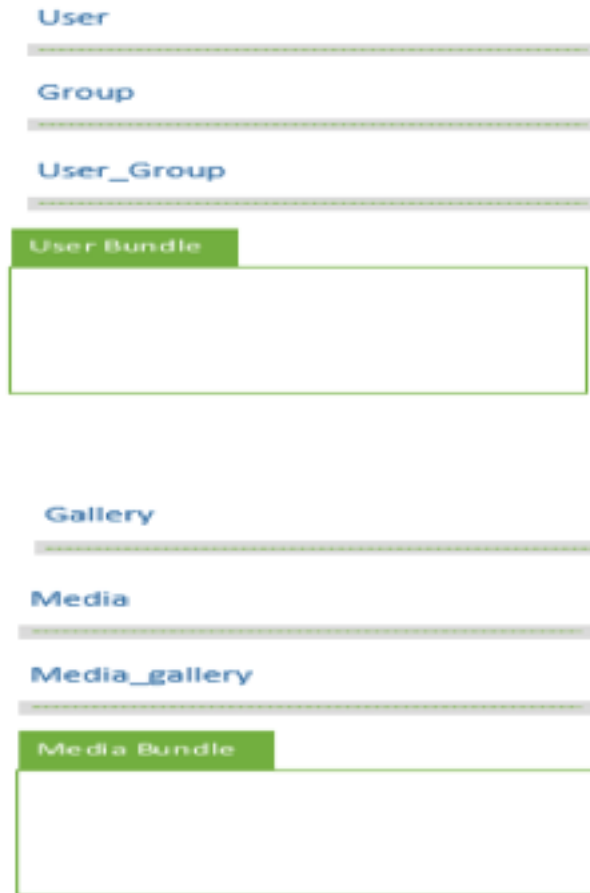
Website Model



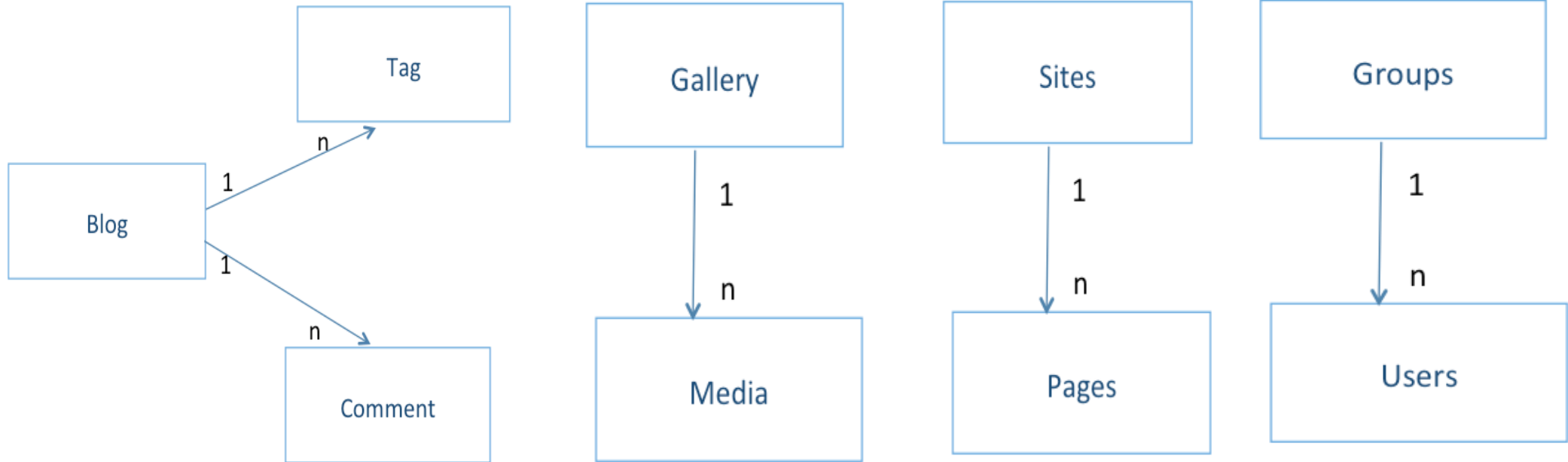
Package Diagram



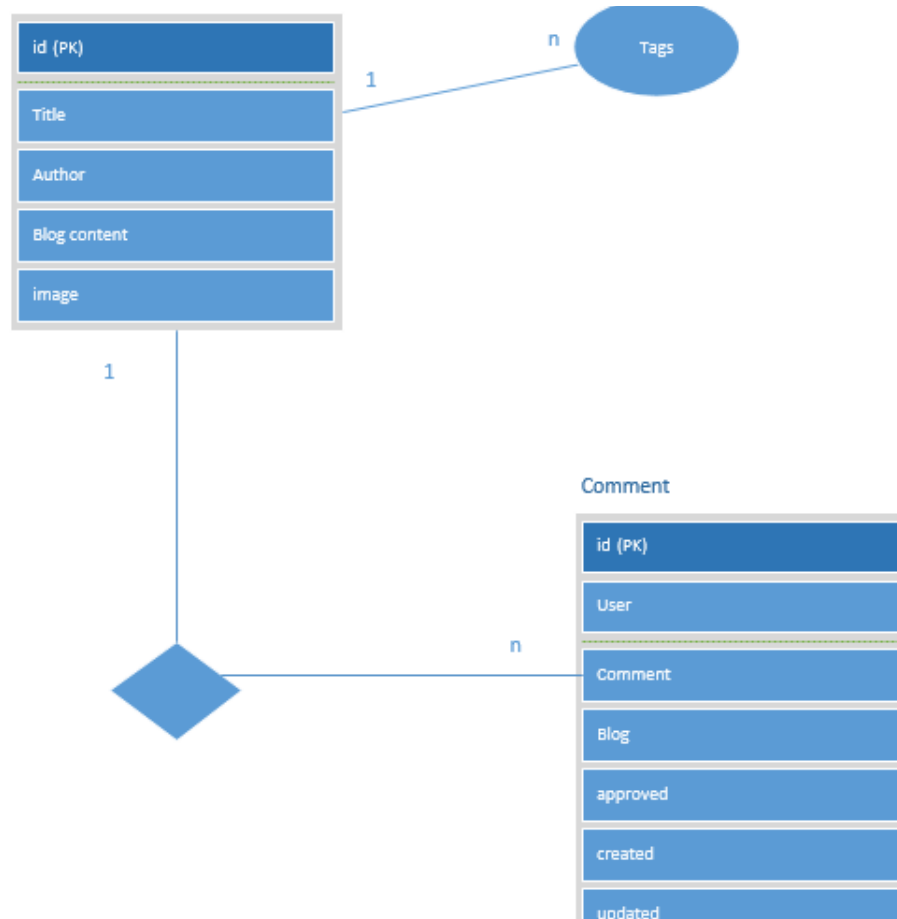
Bundle and Entities



E R Model



Blog Bundle



Controller:

```
public function indexAction()
```

```
{
```

```
    $em = $this->getDoctrine()
```

```
        ->getEntityManager();
```

```
    $blogs = $em->createQueryBuilder()
```

```
        ->select('b')
```

```
        ->from('BloggerBlogBundle:Blog', 'b')
```

```
        ->addOrderBy('b.created', 'DESC')
```

```
        ->getQuery()
```

```
        ->getResult();
```

```
    return $this->render('BloggerBlogBundle:Page:index.html.twig',  
array(
```

```
    'blogs' => $blogs
```

```
));
```

```
}
```

Code Implementations

Translation:

```
#translator:  { fallback: %locale% }  
translator:   { fallback: en }
```

services:

blogger_blog.admin.blog:

class: Blogger\BlogBundle\Admin\BlogAdmin

tags:

- { name: sonata.admin, manager_type: orm, group: Blog Group, label: Blog }

arguments: [null, Blogger\BlogBundle\Entity\Blog, BloggerBlogBundle:BlogAdmin]

#arguments: [null, Blogger\BlogBundle\Entity\Blog, SonataAdminBundle:CRUD]

Code Implementation

- Routing:

admin:

resource: '@SonataAdminBundle/Resources/config/routing/sonata_admin.xml'

prefix: /admin

- Entity:

Defining the database table structure

- Layout.html.twig

Output rendering

{# src/Blogger/Bundle/Resources/views/Blog/show.html.twig #}

What I learned from this Independent Study

- Coding and troubleshooting experience on web development using Php and XAMPP.
- Confidently can use any Php Framework for web development.
- I can learn any new development language with ease.
- Security issues related to web development
- Version Control System using Github .

Thank You
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&&
Syracuse University

A special thanks to all my dear friends