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Introduction

Here are some file to present my Symfony experience. They are from a project Which which you can send log statement to this server via an API. On the web side you can read the message and set mail alerts for certain type logs.

Services.yml

```
<?php
services:
# Base class of all manager classes in folder AppBundle\Manager\Manager
# All Manager classes, except memeber of AppBundle\Manager\Manager
# should inherit from this
   AppBundle.Manager:
       class: AppBundle\Manager\Manager
       abstract: true
# Member classes of class AppBundle.Manager
#http exeption manager
   AppBundle.httpExceptionManager:
        class: AppBundle\Manager\HttpExceptionManager
# Manager for the table log staments on this server to the log files
    AppBundle.MonoLogManager:
       class: AppBundle\Manager\MonoLog
       arguments: ['@logger']
# Base class of all entity Managers
# All entity managers should inherit form this class.
   AppBundle.EntityManager:
       class: AppBundle\Manager\Manager\EntityManager
       abstract: true
#Manager for the table clients systems
   AppBundle.ClientSystemsManager:
       class: AppBundle\Manager\Manager\Entity\ClientSystems
  calls:
```

```
- [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
            [setEntityManagerParams, ['@validator', 'systemid',
'AppBundle:ClientSystems']]
# Manager for the table logs
    AppBundle.LogsManager:
        class: AppBundle\Manager\Manager\Entity\Logs
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
           - [setEntityManagerParams, ['@validator', 'logid', 'AppBundle:Logs']]
# Manager for the table logs_types
    AppBundle.LogsTypesManager:
        class: AppBundle\Manager\Manager\Entity\LogsTypes
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
           - [setEntityManagerParams, ['@validator', 'id', 'AppBundle:LogsTypes']]
# Manager for the table logs levels
    AppBundle.LogsLevelsManager:
        class: AppBundle\Manager\Manager\Entity\LogsLevels
        calls:
           - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
           - [setEntityManagerParams, ['@validator', 'id', 'AppBundle:LogsLevels']]
# Manager for the table app users
    AppBundle.UserManager:
        class: AppBundle\Manager\Manager\Entity\User
        calls:
           - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
           - [setEntityManagerParams, ['@validator', 'id', 'AppBundle:User']]
# Manager for the table mail alert
    AppBundle.MailAlert:
        class: AppBundle\Manager\Manager\Entity\MailAlert
        arguments: ['@AppBundle.MailAlertFilter']
        calls:
            - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
            - [setEntityManagerParams, ['@validator', 'mailAlertId',
'AppBundle:MailAlert']]
```

```
# Manager for the table mail_alert_filter
    AppBundle.MailAlertFilter:
        class: AppBundle\Manager\Manager\Entity\MailAlertFilter
        calls:
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
           - [setEntityManagerParams, ['@validator', 'mailAlertFilterId',
'AppBundle:MailAlertFilter']]
# Manager for the table roles
    AppBundle.RolesManager:
        class: AppBundle\Manager\Manager\Entity\Roles
        calls:
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
      - [setEntityManagerParams, ['@validator', 'id', 'AppBundle:Roles']]
# Base class of all controller managers
# Contorller manager include functions of the controllers
# All contoller managera should inherit form this class.
    AppBundle.ControllerManager:
        class: AppBundle\Manager\Manager\ControllerManager
        abstract: true
    AppBundle.LogsListControllerManager:
        class: AppBundle\Manager\Manager\Controller\LogsListController
        calls:
           - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
    AppBundle.MailAlertsController:
        class: AppBundle\Manager\Manager\Controller\MailAlertsController
           - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
    AppBundle.LoginController:
        class: AppBundle\Manager\Manager\Controller\LoginController
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
    AppBundle.UsersControllerManager:
        class: AppBundle\Manager\Manager\Controller\UsersController
        calls:
```

```
- [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
    AppBundle.SystemsControllerManager:
       class: AppBundle\Manager\Manager\Controller\SystemsController
       calls:
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
    AppBundle.LogLevelsControllerManager:
       class: AppBundle\Manager\Manager\Controller\LogLevelsController
       calls:
           - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
# Misc classes in folder AppBundle\Manager\Manager
#Authorization manager
#A class for API auhtorization
    AppBundle.ApiAuthorizationManager:
         class: AppBundle\Manager\Manager\ApiAuthorization
         arguments: ['@AppBundle.ClientSystemsManager']
         calls:
            - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
#FrontEndPaging manager
#A class to manage an item list with paging and sort
    AppBundle.FrontEndPagingManager:
         class: AppBundle\Manager\Manager\FrontEndPaging
         calls:
            - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
#Form manager
#A class to render symfony forms
    AppBundle.FormManager:
         class: AppBundle\Manager\Manager\Form
            - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
#Mail manager
#A class to send emails
    AppBundle.EmailManager:
```

```
class: AppBundle\Manager\Manager\Email
          calls:
             - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
#Menu manager
#A class to manage the menus
    AppBundle.menuManager:
          class: AppBundle\Manager\Manager\Menu
          calls:
             - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
#Bootstrap manager
#A class to manage the bootsrap classes
     AppBundle.bootstrapManager:
          class: AppBundle\Manager\Manager\Bootstrap
          calls:
             - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
#Command manager
#A class to excecute Symfony console commands
    AppBundle.consoleCommandManager:
          class: AppBundle\Manager\Manager\ConsoleCommand
             - [setManagerParams, ['@doctrine.orm.entity manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service_container']]
#Excel manager
#A class to export to Excel
    AppBundle.excelManager:
          class: AppBundle\Manager\Manager\Excel
             - [setManagerParams, ['@doctrine.orm.entity_manager',
'@AppBundle.MonoLogManager', '@AppBundle.httpExceptionManager', '@service container']]
?>
```

Users List templates

Here are the most important templates I use on page 'users list' to render the list of current users.

Userslist.html.twig

```
{% extends 'base.html.twig' %}
{% block body %}
   <p>
       <a href="/edituser/new" class="btn btn-success btn-sm" role="button" >
          Insert User
       </a>
   {% include 'frontEnd/partials/standard/tableHeader.html.twig'
          with {'headerItems': [ 'id' , 'Name' , 'Role', 'Email', ' ' , ' '] } only
       %}
       {% for user in list %}
          <tr>
              {{ user.id }}
              {{ user.username }}
              {{ user.email }}
              {{ user.role }}
                  <a href="/edituser/{{ user.id }}" class="btn btn-primary btn-sm"
role="button">
                            Edit
                  </a>
              >
                  <a href="/deleteuser/{{ user.id }}" class="btn btn-danger btn-sm"
role="button">
                     Delete
                  </a>
              {% endfor %}
   {% endblock %}
Basetemplate.html.twig
<!DOCTYPE html>
<html>
   <head>
       <meta charset="UTF-8" />
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <title>{% block title %}Welcome!{% endblock %}</title>
       {% block stylesheets %}{% endblock %}
       <link rel="icon" type="image/x-icon" href="{{ asset('favicon.ico') }}" />
```

```
<!-- external css -->
        <link rel="stylesheet" href="/js/jquery-ui-1.12.0/jquery-ui.min.css">
        <link rel="stylesheet" href="/bootstrap-4.0.0-alpha.3/dist/css/</pre>
bootstrap.min.css">
        <!-- css -->
        <link rel="stylesheet" href="/css/main.css">
        <!-- external Javascript -->
        <script src="/js/jquery-3.1.0.min.js"></script>
        <script src="/js/jquery-ui-1.12.0/jquery-ui.js"></script>
        <script src="/js/jquery-ui-1.12.0/jquery-ui.min.js"></script>
        <script src="https://www.atlasestateagents.co.uk/javascript/tether.min.js">//
script>
        <script src="/bootstrap-4.0.0-alpha.3/docs/dist/js/bootstrap.min.js"></script>
   </head>
    <body>
    {% include 'basePartials/menu.html.twig'
                                             용}
   <div class="container theme-showcase" role="main">
        {% block body %}{% endblock %}
        {% block javascripts %}{% endblock %}
   </div>
   </body>
</html>
Tableheader.html.twig
{#
   A standard table header.
   As parameter you give an array of header items
   Example:
    {% include 'frontEnd/partials/standardTable/tableHeader.html.twig'
                with {'headerItems': [ 'id' , 'Name' , 'Role', 'Email', ' ' , ' '] } only
    용}
<thead class="thead-inverse">
    {% for item in headerItems %}
            <span class="tag">{{ item }}</span>
```

```
{% endfor %} </thead>
```

Entity class voor de table 'logs'

```
<?php
/**
* Entity for table logs
namespace AppBundle\Entity;
use AppBundle\Entity\Entity;
use Doctrine\ORM\Mapping as ORM;
use Symfony\Component\Validator\Constraints as Assert;
/**
* @ORM\Entity
* @ORM\Table(name="logs")
class Logs extends Entity
{
 / * *
    * @ORM\Column(
    * type="integer",
        name="logid"
    * @ORM\Id
    * @ORM\GeneratedValue(strategy="AUTO")
protected $logid;
/ * *
   * @ORM\Column(
   * type="integer"
    * )
    * @Assert\NotBlank(
    * message = "'level' is required"
    * @Assert\Range(
         min = 1,
   * minMessage = "Level must be 1,2 or 3 ( 1 = 'Error', 2 = 'Warn', 3 = 'Notice'
   * maxMessage = "Level must be 1,2 or 3 ( 1 = 'Error', 2 = 'Warn', 3 = 'Notice'
 * )
    */
protected $level;
```

```
* @ORM\Column(
    * type="integer"
    * )
    * @Assert\NotBlank(
        message = "'type' is required"
    * @Assert\Range(
          min = 1,
          max = 3,
          minMessage = "Type must be 1,2 or 3 ( 1 = 'Application', 2 = 'Security', 3 =
'System' )",
          maxMessage = "Type must be 1,2 or 3 ( 1 = 'Application', 2 = 'Security', 3
= 'System' )"
    * )
   protected $type;
   /**
    * @ORM\Column(
    * type="integer",
        name="client_systems_id"
    * @Assert\NotBlank(
        message = "'clientSystemsId' is required"
 protected $clientSystemsId;
/ * *
   * @ORM\Column(type="text")
   * @Assert\NotBlank(
   * message = "'message' is required"
protected $message;
/**
   * @ORM\Column(type="string", length=20)
   */
protected $timestamp;
```

Class to generate Symphony forms

Here is a class I have to generate symphony forms. The most important function is 'public function get' see it to get idea of this class.

```
<?php
/ * *
 * A generic class to create forms with Symfony classes
namespace AppBundle\Manager\Manager;
use AppBundle\Manager\Manager;
use Doctrine\ORM\Tools\Pagination\Paginator;
use Symfony\Component\DependencyInjection\Tests\Compiler\C;
use Symfony\Component\Form\Extension\Core\Type\TextType;
use Symfony\Component\Form\Extension\Core\Type\ChoiceType;
use Symfony\Component\Form\Extension\Core\Type\HiddenType;
use Symfony\Component\Form\Extension\Core\Type\SubmitType;
use Symfony\Component\Form\Extension\Core\Type\PasswordType;
use Symfony\Component\Form\Extension\Core\Type\CheckboxType;
use Symfony\Component\Form\Extension\Core\Type\FormType;
use Symfony\Component\Form\Forms;
use AppBundle\Manager\Manager\Bootstrap;
class Form extends Manager {
    * Text field
```

```
* evar Symfony\Component\Form\Extension\Core\Type\TextType
public static $TEXT;
  /**
    * Select field
    * @var Symfony\Component\Form\Extension\Core\Type\ChoiceType
   public static $SELECT;
   / * *
    * Hidden field
    * evar Symfony\Component\Form\Extension\Core\Type\HiddenType
public static $HIDDEN;
/**
   * Password field
   * * @var Symfony\Component\Form\Extension\Core\Type\PasswordType
public static $PASSWORD;
/ * *
   * Checkbox field
   * * @var Symfony\Component\Form\Extension\Core\Type\CheckboxType
   public static $CHECKBOX;
   /**
    * Submit
    * @var Symfony\Component\Form\Extension\Core\Type\HiddenType
   public static $SUBMIT;
/ * *
   * __construct
  public function __construct() {
     self::setFormTypes();
}
/**
```

```
* setFormTypes
  public static function setFormTypes() {
      self::$TEXT = TextType::class;
      self::$SELECT = ChoiceType::class;
      self::$HIDDEN = HiddenType::class;
      self::$PASSWORD = PasswordType::class;
      self::$CHECKBOX = CheckboxType::class;
   self::$SUBMIT = SubmitType::class;
}
   * Get form , get symofony form for given fiels
   * Example of param $fields:
   * [
    * 'startDate' => [
          'label' => 'Start Date',
          'key' => 'startDate',
          'type' => self::$TEXT,
          'value' => '2016-07-01',
    * ],
    * 'systemId' => [
          'label' => 'System',
           'key' => 'systemId',
          'type' => self::$SELECT,
           'value' => '2',
          'options' => [
              0 => [
                   'value' => 1,
                  'name' => 'Test 1',
               ],
              1 => [
                  'value' => 2,
                  'name' => 'Test 2',
         1,
    * ],
    * 'submit' => [
          'label' => 'Search',
          'key' => 'search',
          'default' => '0',
          'type' => self::$SUBMIT ,
          'value' => '',
   * ],
   * ]
```

```
* @param array $fields See above
    * @param array $options Options array
                                'formName'
                                                Form name
                                'action'
                                                Current page is default
                                'method'
                                                GET or POST. GET is default
                                'entityType'
                                                One of the databse entites
                                                Default is 'FormType::class'
                                                Which is not bound to any table
   public function get($fields, $options = []) {
       11
       // Set options as user defined or by default values
       $defaultOptions = [
           'formName' => '',
            'action' => $this->getBaseLink(),
            'method' => 'GET',
            'entityType' => FormType::class,
           'id' => false
       ];
       foreach ($defaultOptions as $key =>$default) {
           $$key = isset($options[$key]) ? $options[$key] : $defaultOptions[$key];
     $formOptions = [];
       // set id
       if ($id) {
         $formOptions['attr'] = ['id' => $id];
      //Initialize form
       $form = $this->intializeForm($formName, $entityType, $fields, $action, $method,
$formOptions);
       // Set fields
       foreach ($fields as $key => $field) {
           // Add standard input class for all fields
          $this->addStandardInputClassForField($field);
           $options = $this->addFieldOptions($field);
```

```
// Add select options
           if ($field['type'] == self::$SELECT) {
              $options['choices'] = $this->convertSelectOptions($field['options']);
           }
           // Add field
            $form->add($key, $field['type'], $options );
   };
  return $form->getForm()->createView();
 }
/**
    * intializeForm
    *  * @param string $formName
    * @param string $entityType
    * @param array $fields
    * @param string $action
    * @param string $method
    * @param array $formOptions
    * @return Symfony\Component\Form\FormBuilder
  private function intializeForm($formName, $entityType, $fields, $action, $method,
$formOptions) {
    $formValues = array_column($fields, 'value', 'key');
      $form = $this->getContainer()
          ->get('form.factory')
          ->createNamedBuilder($formName, $entityType, $formValues,
              $formOptions );
// set action and method
      $form->setAction($action);
   $form->setMethod($method);
      return $form;
/ * *
    * convertSelectOptions
    * Example of $optionsArr:
    * [
    * 0 => [
                   'name' => 'Test 1',
                   'value' => 1,
```

```
1,
          1 => [
                  'name' => 'Test 2',
                  'value' => 2,
        ],
    * ]
    * @param $optionsArr array of select options in format above
    * @return array Array of options in Symfony form format
    */
  private function convertSelectOptions($optionsArr) {
$choices = array_column($optionsArr, 'value' ,'name');
       $firstItem = ['Select' => 0 ];
       $choices = array_merge($firstItem, $choices);
     return $choices;
}
private function addFieldOptions($field) {
$options = [];
  // set user defined options
      $optionOptions = ['label' , 'attr'];
       foreach ($optionOptions as $option) {
          if (isset($field[$option])) {
            $options[$option] = $field[$option];
       }
  }
 // ignore HTML 5 required option
      $fieldTypesToIgnore = [self::$CHECKBOX, self::$TEXT, self::$PASSWORD];
       if (in_array($field['type'], $fieldTypesToIgnore )) {
   $options['required'] = false;
 return $options;
    * This function adds a the standard input classes for all input fields.
    * The meaning is that there is an entity. All are similar.
    * @param array $field
```

```
private function addStandardInputClassForField(&$field) {
       $field['attr']['class'] = isset($field['attr']['class'])
           ? $field['attr']['class'] . Bootstrap::$FORM_FIELD_STANDARD
           : Bootstrap::$FORM FIELD STANDARD;
}
<?php
/**
* A generic class to create forms with Symfony classes
namespace AppBundle\Manager\Manager;
use AppBundle\Manager\Manager;
use Doctrine\ORM\Tools\Pagination\Paginator;
use Symfony\Component\DependencyInjection\Tests\Compiler\C;
use Symfony\Component\Form\Extension\Core\Type\TextType;
use Symfony\Component\Form\Extension\Core\Type\ChoiceType;
use Symfony\Component\Form\Extension\Core\Type\HiddenType;
use Symfony\Component\Form\Extension\Core\Type\SubmitType;
use Symfony\Component\Form\Extension\Core\Type\PasswordType;
use Symfony\Component\Form\Extension\Core\Type\CheckboxType;
use Symfony\Component\Form\Extension\Core\Type\FormType;
use Symfony\Component\Form\Forms;
use AppBundle\Manager\Manager\Bootstrap;
class Form extends Manager {
    / * *
    * Text field
    * @var Symfony\Component\Form\Extension\Core\Type\TextType
   public static $TEXT;
    /**
     * Select field
    * @var Symfony\Component\Form\Extension\Core\Type\ChoiceType
   public static $SELECT;
    /**
    * Hidden field
     public static $HIDDEN;
```

```
/ * *
    * Password field
    * * @var Symfony\Component\Form\Extension\Core\Type\PasswordType
public static $PASSWORD;
   * Checkbox field
    * evar Symfony\Component\Form\Extension\Core\Type\CheckboxType
   public static $CHECKBOX;
   /**
    * Submit
    * @var Symfony\Component\Form\Extension\Core\Type\HiddenType
   public static $SUBMIT;
/ * *
   * __construct
  public function __construct() {
     self::setFormTypes();
}
/**
   * setFormTypes
   * /
  public static function setFormTypes() {
      self::$TEXT = TextType::class;
      self::$SELECT = ChoiceType::class;
      self::$HIDDEN = HiddenType::class;
      self::$PASSWORD = PasswordType::class;
      self::$CHECKBOX = CheckboxType::class;
     self::$SUBMIT = SubmitType::class;
}
  * Get form , get symofony form for given fiels
   * Example of param $fields:
```

```
'startDate' => [
       'label' => 'Start Date',
        'key' => 'startDate',
       'type' => self::$TEXT,
       'value' => '2016-07-01',
  ],
* 'systemId' => [
       'label' => 'System',
       'key' => 'systemId',
        'type' => self::$SELECT,
       'value' => '2',
       'options' => [
           0 => [
               'value' => 1,
              'name' => 'Test 1',
           ],
           1 => [
               'value' => 2,
              'name' => 'Test 2',
      1,
  ],
* 'submit' => [
       'label' => 'Search',
       'key' => 'search',
       'default' => '0',
       'type' => self::$SUBMIT ,
      'value' => '',
* ],
* ]
* @param array $fields See above
* @param array $options Options array
                           'formName' Form name
                           'action'
                                          Current page is default
                                          GET or POST. GET is default
                           'method'
                           'entityType'
                                          One of the databse entites
                                          Default is 'FormType::class'
                                          Which is not bound to any table
public function get($fields, $options = []) {
//
```

```
// Set options as user defined or by default values
       11
       $defaultOptions = [
           'formName' => '',
           'action' => $this->getBaseLink(),
           'method' => 'GET',
           'entityType' => FormType::class,
           'id' => false
       ];
       foreach ($defaultOptions as $key =>$default) {
          $$key = isset($options[$key]) ? $options[$key] : $defaultOptions[$key];
       }
     $formOptions = [];
       // set id
       if ($id) {
         $formOptions['attr'] = ['id' => $id];
       }
 //Initialize form
       $form = $this->intializeForm($formName, $entityType, $fields, $action, $method,
$formOptions);
 //
       // Set fields
       foreach ($fields as $key => $field) {
           // Add standard input class for all fields
          $this->addStandardInputClassForField($field);
    $options = $this->addFieldOptions($field);
          // Add select options
           if ($field['type'] == self::$SELECT) {
             $options['choices'] = $this->convertSelectOptions($field['options']);
           }
            // Add field
           $form->add($key, $field['type'], $options );
  };
       return $form->getForm()->createView();
    * intializeForm
```

```
* @param string $formName
    * # @param string $entityType
    * @param array $fields
    * @param string $action
    * @param string $method
    * @param array $formOptions
    * @return Symfony\Component\Form\FormBuilder
    * /
  private function intializeForm($formName, $entityType, $fields, $action, $method,
$formOptions) {
$formValues = array_column($fields, 'value', 'key');
      $form = $this->getContainer()
          ->get('form.factory')
          ->createNamedBuilder($formName, $entityType, $formValues,
              $formOptions );
// set action and method
      $form->setAction($action);
   $form->setMethod($method);
return $form;
/**
    * convertSelectOptions
    * Example of $optionsArr:
    * [
    * 0 => [
                 'name' => 'Test 1',
                  'value' => 1,
              ],
          1 => [
                 'name' => 'Test 2',
                  'value' => 2,
       ],
    * ]
    * @param $optionsArr array of select options in format above
    * @return array Array of options in Symfony form format
   private function convertSelectOptions($optionsArr) {
$choices = array_column($optionsArr, 'value', 'name');
       $firstItem = ['Select' => 0 ];
       $choices = array_merge($firstItem, $choices);
```

```
return $choices;
private function addFieldOptions($field) {
   $options = [];
      // set user defined options
       $optionOptions = ['label' , 'attr'];
       foreach ($optionOptions as $option) {
           if (isset($field[$option])) {
             $options[$option] = $field[$option];
        }
      // ignore HTML 5 required option
       $fieldTypesToIgnore = [self::$CHECKBOX, self::$TEXT, self::$PASSWORD];
       if (in_array($field['type'], $fieldTypesToIgnore )) {
          $options['required'] = false;
     return $options;
    * This function adds a the standard input classes for all input fields.
    * The meaning is that there is an entity. All are similar.
    * @param array $field
   private function addStandardInputClassForField(&$field) {
       $field['attr']['class'] = isset($field['attr']['class'])
           ? $field['attr']['class'] . Bootstrap::$FORM FIELD STANDARD
      : Bootstrap::$FORM_FIELD_STANDARD;
```