

Working with Symfony2 Forms

There are 3 ways!

DIRECTLY IN Simple and Easy THE CONTROLLER

Translate user-submitted data back to the properties of an object

Data Class

Entity

src/Acme/TaskBundle/Entity/Task.php

```
namespace Acme\TaskBundle\Entity;
class Task
 protected $task:
  protected $dueDate;
  public function getTask()
    return $this->task;
  public function setTask($task)
   $this->task = $task;
  public function getDueDate()
   return $this->dueDate:
  public function setDueDate(\DateTime $dueDate = null)
   $this->dueDate = $dueDate:
```

Create / Handle Submission

Controller

src/Acme/TaskBundle/Controller/DefaultController.php

```
namespace Acme\TaskBundle\Controller:
use Symfony\Bundle\FrameworkBundle\Controller\Controller:
use Acme\TaskBundle\Entity\Task;
use Symfony\Component\HttpFoundation\Request;
class DefaultController extends Controller
 public function newAction(Request $request)
   // just setup a fresh $task object
                                       create the form
   $task = new Task():
   $form = $this->createFormBuilder($task)
    >add('task', 'text')
    >add('dueDate', 'date')
    >getForm();
                                    field type
  $request = $this->getRequestO;
                                      HTML form tag will be
   if ($request->getMethod() == 'POST') { rendered for the field
    $form->bindRequest($request);
    if ($form->isValid()) { call validation
      return $this->redirect($this->generateUrl('task_success'));
                          prevent re-post data
   return $this->render('AcmeTaskBundle:Default:new.html.twig',
         'form' => $form->createView(),
                                                render the
     )):
                                                form (view)
```

Render

View

src/Acme/TaskBundle/Resources/views/Default/new.html.twig

TWIG

```
<form action="{{ path('task_new') }}" method="post"</pre>
                      {{ form enctype(form) }}>
  {{ form widget(form) }}
```

<input type="submit" /> </form>

src/Acme/TaskBundle/Resources/views/Default/new.html.php

```
<form action="<?php echo $view['router']->generate('task_new') ?>"
   method="post" <?php echo $view['form']->enctype($form) ?>>
 <?php echo $view['form']->widget($form) ?>
```

<input type="submit"/> </form>

> Task Write a blog post Duedate Jul \$ 24 \$, 2011 \$

Submit

You can render the entire form with just one line (like above) or customize every part of your form.

Everything can be customized (Using fragments and themes)

To customize any part of how a form renders: Twig: override the appropriate block

PHP: override the existing template by creating a new one

Validate

Validation is done by adding a set of rules (called constraints) to a class.

Calling \$form->isValid() is a shortcut that asks the \$task object whether or not it has valid data.

src/Acme/TaskBundle/Entity/Task.php

use Symfony\Component\Validator\Constraints as Assert;

class Task

```
* @Assert\NotBlank()
```

public \$task:

- * @Assert\NotBlank()
- * @Assert\Type("\DateTime")
- protected \$dueDate;

src/Acme/TaskBundle/Resources/config/validation.yml

Acme\TaskBundle\Entity\Task: properties: task.

- NotBlank: ~ dueDate:
- NotBlank: ~ - Type: \DateTime

You can use annotations, YAML, XML or PHP. See http://symfony.com/doc/current/book/forms.html



Working with Symfony2 Forms

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CREATING FORM CLASSES Best way (better practice, reusable) (standalone PHP class)



Create

Form Class

src/Acme/TaskBundle/Form/Type/TaskType.php

```
namespace Acme\TaskBundle\Form\Type;
use Symfony\Component\Form\AbstractType;
use Symfony\Component\Form\FormBuilder;
class TaskType extends AbstractType
  public function buildForm(FormBuilder $builder, array $options)
   $builder->add('task'):
   $builder->add('dueDate', null, array('widget' => 'single_text'));
  public function getDefaultOptions(array $options)
    return array(
       'data_class' => 'Acme\TaskBundle\Entity\Task',
  public function getName()
   return 'task':
```

data_class

name of the class that holds the underlying data - for embedded forms enables form to see type definitions of the class

Always define! (best practice)

Handle Submission

Controller

src/Acme/TaskBundle/Controller/DefaultController.php

```
use Acme\TaskBundle\Form\Type\TaskType;
public function newAction()
 $task = // ...
 $form = $this->createForm(new TaskType(), $task);
 // ...
```

// add this new use statement at the top of the class

Data Class

Entity

src/Acme/TaskBundle/Entity/Task.php

```
namespace Acme\TaskBundle\Entity;
class Task
 protected $task;
 protected $dueDate;
 public function getTask()
    return $this->task;
 public function setTask($task)
   $this->task = $task;
```

Render

View

src/Acme/TaskBundle/Resources/views/Default/new.html.twig

```
TWIG
<form action="{{ path('task_new') }}" method="post"</pre>
                    {{ form enctype(form) }}>
  {{ form widget(form) }}
  <input type="submit" />
</form>
src/Acme/TaskBundle/Resources/views/Default/new.html.php
```

<form action="<?php echo \$view['router']->generate('task_new') ?>" method="post" <?php echo \$view['form']->enctype(\$form) ?>> <?php echo \$view['form']->widget(\$form) ?>

<input type="submit"/> </form>



Task Write a blog post Duedate Jul \$ 24 \$, 2011 \$ Submit

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Validate

Validation is done by adding a set of rules (called constraints) to a class.

Calling \$form->isValid() is a shortcut that asks the \$task object whether or not it has valid data.

src/Acme/TaskBundle/Entity/Task.php

use Symfony\Component\Validator\Constraints as Assert; class Task * @Assert\NotBlank() public \$task: * @Assert\NotBlank() * @Assert\Type("\DateTime") protected \$dueDate;

src/Acme/TaskBundle/Resources/config/validation.yml

Acme\TaskBundle\Entity\Task: properties: task. - NotBlank: ~ dueDate: - NotBlank: ~ - Type: \DateTime

You can use annotations, YAML, XML or PHP.

See http://symfony.com/doc/current/book/forms.html



Working with Symfony2 Forms

There are 3 ways!

USING A FORM For simple forms
WITHOUT A DATA (get back an array of the submitted data)

Create / Handle Submission

Controller

src/Acme/ContactBundle/Controller/ContactController.php

```
// make sure you've imported the Request namespace above the class
use Symfony\Component\HttpFoundation\Request
//...
public function contactAction(Request $request)
  $defaultData = array('message' => 'Type your message here');
  $form = $this->createFormBuilder($defaultData)
    ->add('name', 'text')
    ->add('email', 'email')
    ->add('message', 'textarea')
    ->getForm():
    if ($request->getMethod() == 'POST') {
      $form->bindRequest($request);
      // data is an array with "name", "email", and "message" keys
      $data = $form->getData();
  // ... render the form
```

By default, \$form->getDataO return an array instead of an object. There are two ways to change this behavior and tie the form to an object instead:

- 1. Pass an object when creating the form (as the first argument to createFormBuilder or the second argument to createForm);
- 2. Declare the data_class option on your form.

Validate

Validation is done by adding the constraints yourself, and pass them into your form.

Without Form Class

```
// import the namespaces above your controller class
use Symfony\Component\Validator\Constraints\Email;
use Symfony\Component\Validator\Constraints\MinLength:
use Symfony\Component\Validator\Constraints\Collection;
$collectionConstraint = new Collection(array(
  'name' => new MinLength(5).
  'email' => new Email(array(
              'message' => 'Invalid email address')),
));
// create a form, no default values, pass in the constraint option
$form = $this->createFormBuilder(null, array())
  'validation_constraint' => $collectionConstraint,
))->add('email', 'email')
```

With Form Class

```
namespace Acme\TaskBundle\Form\Type;
use Symfony\Component\Form\AbstractType;
use Symfony\Component\Form\FormBuilder;
use Symfony\Component\Validator\Constraints\Email;
use Symfony\Component\Validator\Constraints\MinLength;
use Symfony\Component\Validator\Constraints\Collection;
class ContactType extends AbstractType
               If you're using a form class, override the
               getDefaultOptions method to specify
               the option
 public function getDefaultOptions(array $options)
   $collectionConstraint = new Collection(array(
     'name' => new MinLength(5),
     'email' => new Email(array(
                 'message' => 'Invalid email address')),
   return array('validation_constraint' => $collectionConstraint);
```

When you call \$form->isValid(), the constraints setup here are run against your form's data.

Accessing POST values directly through the request object

\$this->get('request')->request->get('name');

However, that in most cases using the getData() method is a better choice, since it returns the data (usually an object) after it's been transformed by the form framework.

Render

View

src/Acme/TaskBundle/Resources/views/Default/new.html.twig

TWIG

```
<form action="{{ path('task_new') }}" method="post"</pre>
                     {{ form enctype(form) }}>
 {{ form widget(form) }}
 <input type="submit" />
</form>
```

src/Acme/TaskBundle/Resources/views/Default/new.html.php

<form action="<?php echo \$view['router']->generate('task_new') ?>" method="post" <?php echo \$view['form']->enctype(\$form) ?>> <?php echo \$view['form']->widget(\$form) ?>

<input type="submit"/> </form>



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