

Entity Manager in a controller	
<pre>\$this->getDoctrine()->getManager();</pre>	Get default entity
	manager
\$this->getDoctrine()->getManagerForClas-	Get entity specific
s(MyEntity::class)	manager

_				
Reno	sitorie	s in a	cont	roller

\$this->getDoctrine()->getRepository(MyEntity::class);

Doctrine Query	
<pre>getResult(\$hydrationMode = self::HYDRATE_OBJECT)</pre>	Retrieve a collection
<pre>getSingleResult(\$hydrationMode = null)</pre>	Retrieve a single result or exception
getOneOrNullResult (\$hydrationMode = null)	Retrieve a result or NULL
getArrayResult()	Retrieve an array
getScalarResult()	Retrieves a flat/rectangular result set of scalar values
getSingleScalarResult()	Retrieves a single scalar value or exception
AbstractQuery::HYDRATE_O-BJECT	Object graph default
AbstractQuery::HYDRAT- E_ARRAY	Array graph
AbstractQuery::HYDRATE_S-CALAR	Flat rectangular result with scalars
AbstractQuery::HYDRATE_S-INGLE_SCALAR	Single scalar value
AbstractQuery::HYDRATE_S-IMPLEOBJECT	Very simple object fast
setCacheMode(\$cacheMode)	
Cache::MODE_GET	may read, not write
Cache::MODE_PUT	no read, write all

Doctrine Query (cont)		
Cache::MODE_REFRESH	no read, on	ly refresh
setCacheable(\$trueFalse)	Enable/disa	ble result caching
Magic repository functions		
find(\$id)		Returns one entity
<pre>findOneBy(\$criteria, \$orderBy)</pre>		Returns one entity
findBy(\$criteria, \$orderBy, \$limit	t, \$offset)	Returns collection
\$criteria = ['field' => 'value']		Single field / value
\$criteria = ['field' => ['value1', 'va	alue2']]	Single where-in
<pre>\$criteria = ['field1' => 'value', 'fie 'value2']</pre>	ld2' =>	multiple fields / values
<pre>\$repository = \$this->getDoctrine()->getRepository(Product::class); \$product = \$repository->findOneBy(['name' => 'Keyboard']);</pre>		
Doctrine criteria - filtering collect	tions	
Doctrine criteria - filtering collect where(\$Expression)		evious statement
	Replaces pro	evious statement DR where statement
where(\$Expression)	Replaces pro	OR where statement
where(\$Expression) [and/or]Where(\$Expression)	Replaces pro	OR where statement
where(\$Expression) [and/or]Where(\$Expression) orderBy(\$array)	Replaces pro Adds AND /0 Sets OrderB	OR where statement y ult
where(\$Expression) [and/or]Where(\$Expression) orderBy(\$array) setFirstResult(\$firstResult)	Replaces pro Adds AND // Sets OrderB Sets first res Sets Maximu	OR where statement y ult
where(\$Expression) [and/or]Where(\$Expression) orderBy(\$array) setFirstResult(\$firstResult) setMaxResult(\$max)	Replaces pro Adds AND /0 Sets OrderB Sets first res Sets Maximul Isers();	OR where statement y ult um results -02-17"))



Cache::MODE_NORMAL

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read and write

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Doctrine ExpressionBuilder an	d Expr
andX(\$arg1, \$arg2,)	Multiple arguments AND
orX(\$arg1, \$arg2,)	Multiple arguments OR
[n]eq(\$field, \$value)	[Not] Equal
gte	Greater than [or equal]
Ite	Less than [or equal]
isNull(\$field)	Is Null
[not]in(\$field, array \$values)	[not] In
memberOf(\$field, \$value)	ExpressionBuilder only Member of
isMemberOf(\$field, \$value)	Expr only Member of
isNotNull(\$field)	Expr only Is not Null
between(\$field, \$x, \$y)	Expr only Between \$x and \$y
trim(\$field)	Expr only Trim
concat(\$x, \$y)	Expr only Concat
literal(\$string)	Expr only Literal
lower(\$field)	Expr only Lower case
upper(\$field)	Expr only Upper case
count(\$field)	Expr only count
# Doctrine Expr #	
Criteria::expr()->orX(
Criteria::expr()->eq('id', \$facilit	yld),
Criteria::expr()->eq('active', TF	RUE)

Doctrine ExpressionBuilder # \$qb = \$this->createQueryBuilder('f');

\$qb->where(\$qb->expr()->eq('id', '?arg1')) ->setParameter('arg1', \$facilityId);

\$qb->select(\$qb->expr()->substring('o.orderNumber', 4, 3));

\$qb->select(\$qb->expr()->concat('p1.surname', \$qb->expr()->literal(','), 'p1.firstName');

Doctrine Query Builder

setParameter(\$parameter, \$value)

addCriteria(Criteria \$criteria)

[get/set]MaxResults(\$maxResults)

[get/set]FirstResult(\$firstResult)

Doctrine	Ouoni Ri	uildor (a	contl
	QUELV DI	ander (CULL

add(\$dqlPartName, \$dqlPart, \$append = false)

\$dqlPartName: select, from, join, set, where, groupBy, having,

orderBy

Wrappers for add():

[add]select(\$select= null)

delete(\$delete = null, \$alias = null)

update(\$update = null, \$alias = null)

set(\$key, \$value)

from(\$from, \$alias, \$indexBy = null)

[inner/left]join(\$join, \$alias, \$conditionType = null, \$condition = null,

\$indexBy = null)

[and/or]where(\$where)

[add]groupBy(\$groupBy)

[and/or]having(\$having)

[add]orderBy(\$field, \$order = null)

Doctrine raw SQL

\$Connection= \$EntityManager->getCon-Get connection nection(): Connection; \$Statement = \$Connection-Prepare statement

>prepare(string \$sql): Statement; from string \$Statement->bindValue(string|int \$param, Bind a value to a

\$value, \$type = null): bool corresponding name Execute the statement

\$Statement->execute(?array \$params = null): bool

\$Statement->fetchAll(int \$fetchStyle = PDO::FETCH_BOTH): array

\$Statement->fetchOne(int \$fetchStyle =

PDO::FETCH_BOTH): array

Return the number of \$Statement->rowCount(): int

rows

Fetch all results

Fetch single result



getQuery()





Authorization in a controller (cont)

Doctrine raw SQL (cont)

\$Statement->free(): void Free stored result memory

\$connection = \$entityManager->getConnection();

\$sql = 'SELECT * FROM events WHERE start_date >= :startdate';

\$statement = \$conn->prepare(\$sql);

\$statement->bindValue('startdate', \$startDate->format('Y-m-d H:i:s'));

\$statement->execute();

return \$statement->fetchAll();

Authorization

IS_AUTHENTICATEUser has successfully authenticated, not
D_FULLY
via 'remember me cookie'

IS_AUTHENTICATED_REMEMBERED

IS_REMEMBERED

Only users authenticated using the remember me functionality

IS_IMPERSONATOR

When the current user is impersonating

All roles you assign to a user must begin with the ROLE_ prefix in order for the default symfony RoleVoter to vote. Other prefixes require a custom voter.

another user in this session

Authorization in a controller

```
# Example of using wrapper #
public function hello($name)
{
// The second parameter is used to specify on what object the role is tested.
$this->denyAccessUnlessGranted('ROLE_ADMIN', null, 'Unable to access this page!');
// ...
}
# Example of using AuthorizationChecker
```

Example of using Authorization Checker

use Symfony\Component\Security\Core\Authorization\AuthorizationCheckerInterface

use Symfony\Component\Security\Core\Exception\AccessDenied-Exception;

 ${\tt public\ function\ hello(\$name,\ AuthorizationCheckerInterface\ \$authChecker)}$

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if (false === \$authChecker->isGranted('ROLE_ADMIN')) {
 throw new AccessDeniedException('Unable to access this page!');
}
// ...
}
Example of using annotation
 use Sensio\Bundle\FrameworkExtraBundle\Configuration\Security;
/**
 * @Security("has_role('ROLE_ADMIN')")
 */
 public function hello(\$name)
{
// ...

Persisting Entities

}

// get the entity manager that manages this entity

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

getManagerForClass(MyEntity::class);

// create a new entity

\$entity = new MyEntity();

// populate / alter properties

\$entity->setName('Default Entity');

// tell Doctrine you want to (eventually) save

\$em->persist(\$entity);

// actually executes the queries

\$em->flush();

Authorization via security.yaml

config/packages/security.yaml security: access_control:

public access only for /



Authorization via security.yaml (cont)

- { path: ^/\$, roles: PUBLIC_ACCESS }
public access to login page /login

- { path: ^/login, roles: PUBLIC_ACCESS }

or require ROLE_ADMIN or ROLE_USER_ADMIN for /admin/users*

- { path: '^/admin/users', roles: [ROLE_USER_ADMIN, ROLE_A-DMIN] }

require ROLE_ADMIN for /admin*

- { path: ^/admin, roles: ROLE_ADMIN }

authenticated users only to the rest /*

- { path: ^/, roles: IS_AUTHENTICATED_FULLY

No limit on amount of URL patterns. Each is a regular expression. First match will be used.

Prepend the path with ^ to ensure only URLs beginning with the pattern are matched.

Authorization in template

{% if is_granted('ROLE_ADMIN') %}
Delete
{% endif %}

Create a new form in a controller

Create a new form with a default name

\$form = \$this->createFormBuilder(\$data)

->add('dueDate', null, array(

'widget' => 'single_text'))

->add('save', SubmitType::class)

->getForm();

Create a form with a non-default name

\$form = \$this->container->get('form.factory')

->createNamedBuilder(

'form1', FormType::class, \$data)

->add('dueDate', null, array(

'widget' => 'single_text'))

->add('save', SubmitType::class)

->getForm();

Create a form from a class in a controller

Create a form from a form class with a default name # \$form = \$this->createForm(TaskForm::class, \$data, array('action' => \$this->generateUrl('target_route'), 'method' => 'GET',

));

Create a form from a form class with a non-default name # \$form = \$this->container->get('form.factory')

->createNamed('form1', TaskForm::class, \$data, array('action' => \$this->generateUrl('target_route'),

'method' => 'GET',

));

Form Options	
'action' => "	Where to send the form's data on submission (usually a URI)
'allow_extra_fields' => false	Allow additional fields to be submitted
'error_mapping' => array('match- ingCityAndZipCode' => 'city')	Modify the target of a validation error
'extra_fields_message' => 'This form should not contain extra fields.'	Validation error message if additional fields are submitted
'inherit_data' => false	Inhered data from parent form or not
'method' => 'POST'	HTTP method used to submit the form
'post_max_size_message' => 'The uploaded file was too large.'	Validation message for size of post form data



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Form Options (cont)	
'validation_groups' =>	Disable the Validation of Submitted
false	Data
public function configureOp	tions(OptionsResolver \$resolver) {
\$resolver->setDefaults(arra	y(
# Options go here #	
));	
}	

Log Levels	/ Console Verbosity (OutputInterfac	e)	
emerge- ncy()	System is unusable.		
alert()	Action must be taken immediately.		
critical()	Critical conditions.		
error()	Runtime errors that do not require immediate action but should typically be logged and monitored.	VERBOS- ITY_QUIET (-1)	-q / stderr
warning()	Exceptional occurrences that are not errors.	VERBOS- ITY- _NORMAL (0)	(non) / stdout
notice()	Normal but significant events.	VERBOS- ITY_VE- RBOSE (1)	-V
info()	Interesting events.	VERBOS- ITY_VE- RY VERBOSE (2)	-VV
debug()	Detailed debug information.	VERBOS- ITY- _DEBUG (3)	-VVV

use Psr\Log\LoggerInterface;
public function index(LoggerInterface \$logger) {
\$logger->info('I just got the logger');
}

Console	
bin\console	List available commands and show the Symfony version
server:run	Run the built-in web server
assets:install symlink	Install bundle assets as a symlink or hardcopy
debug:autowire	Lists classes/interfaces you can use for autowiring
debug:config	Dumps the current configuration for an extension
debug:container	Displays current services for an application
debug:form	Lists classes/interfaces you can use for autowiring
debug:route	Displays current routes for an application

Usage:

php bin\console command [options] [arguments]

Options:

- -h, --help Display this help message
- -q, --quiet Do not output any message
- -n, --no-interaction Do not ask any interactive question
- -e, --env=ENV The environment name [default: "dev"]
- --no-debug Switches off debug mode
- -v|vv|vvv, --verbose Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

Basic form

class TaskForm extends AbstractType
{
public function buildForm(
FormBuilderInterface \$builder,
array \$options)
{

\$builder

->add('dueDate', DateType::class, array(

'widget' => 'single_text',



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Symfony 5 Cheat Sheet

by Marcel Berteler (pluk77) via cheatography.com/55947/cs/14851/

Basic form (cont) 'label' => 'Due Date', 'required' => false, 'attr' => array('maxlength' => 10), 'constraints' => array(new Length(array('max' => 10))))) ->add('save', SubmitType::class); public function configureOptions(OptionsResolver \$resolver) { \$resolver->setDefaults(array('method' => 'GET',)); } }

TwigBridge - Forms	
{{ form(view, variables) }}	Render whole form
{{ form_start(view, variables) }}	Render start tag
{{ form_errors(view) }}	Render global errors
{{ form_row(view, variables) }}	Render all the fields
{{ form_rest(view, variables) }}	Render all other fields
{{ form_end(view, variables) }}	Render end tag + all other fields
{{ form_row(view.field) }}	Render field label, error and widget
{{ form_label(view.field, label, variables) }}	Render field label

TwigBridge - Forms (cont)	
{{ form_errors(view.field) }}	Render field error
{{ form_widget(view.field, variables) }}	Render field widget
{# render a label, but display 'Your Name' and add a "foo" class to it #} {{ form_label(form.name, 'Your Name', {'label_attr': {'class': 'foo'}}) }}	
{# render a widget, but add a "foo" class to it #} {{ form_widget(form.name, {'attr': {'class': 'foo'}}) }}	
{# render a field row, but display a label with text "foo" #} {{ form_row(form.name, {'label': 'foo'}) }}	
Response from a controller	
render(\$view, \$parameters, \$response = null)	Render the template and return a Response

Encode data and

return a Json response

Return a file

response

json(\$data, \$status = 200, \$headers = array(),

file(\$file, \$fileName = null, \$disposition =

ResponseHeaderBag::DISPOSITION_AT-

\$context = array())

```
TACHMENT)
redirectToRoute($route, $parameters =
                                                Redirect to route
array(), $status = 302)
redirect($url, $status = 302)
                                                Redirect to external
                                                URL
forward($controller, $path = array(), $query =
                                                Forwards the
                                                request to another
array())
                                                controller
return $this->render('admin/post/show.html.twig', [
  'post' => $post,
  'delete_form' => $deleteForm->createView(),
]);
return $this->json($data);
```



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