Paginating API search results

Description

When listing content (e.g. blog posts), pagination is a very common use case and is usually painful to implement by hand.

For this purpose eZ Platform recommends the use of Pagerfanta library and proposes adapters for it.

Solution

```php
<?php
namespace Acme\TestBundle\Controller;

use
eZ\Publish\Core\Pagination\Pagerfanta\ContentSearchAdapt
er;
use Pagerfanta\Pagerfanta;
use eZ\Bundle\EzPublishCoreBundle\Controller;
use
eZ\Publish\API\Repository\Values\Content\Query\Criterion
\ContentTypeIdentifier;
use eZ\Publish\API\Repository\Values\Content\Query;

class DefaultController extends Controller
{
    public function myContentListAction( $locationId,
$viewType, $layout = false, array $params = array() )
    {
        // First build the search query.
        // Let's search for folders, sorted by
publication date.
        $query = new Query();
        $query->criterion = new ContentTypeIdentifier(
'folder' );
        $query->sortClauses = array( new
SortClause\DatePublished() );

        // Initialize the pager.
        // We pass the ContentSearchAdapter to it.
        // ContentSearchAdapter is built with your
search query and the SearchService.
        $pager = new Pagerfanta(
            new ContentSearchAdapter( $query,
$this->getRepository()->getSearchService() )
        );
        // Let's list 2 folders per page, even if it
doesn't really make sense ;-)
        $pager->setMaxPerPage( 2 );
        // Defaults to page 1 or get "page" query
parameter
        $pager->setCurrentPage(
$this->getRequest()->get( 'page', 1 ) );

        return $this->render(
            'AcmeTestBundle::my_template.html.twig',
            array(
                'totalFolderCount' =>
$pager->getNbResults(),
                'pagerFolder' => $pager,
                'location' =>
$this->getRepository()->getLocationService()->loadLocati
on( $locationId ),
            ) + $params
        );
    }
}
```

```twig
{% block content %}
    <h1>Listing folder content objects: {{
totalFolderCount }} objects found.</h1>

    <div>
        <ul>
        {# Loop over the page results #}
        {% for folder in pagerFolder %}
            <li>{{ ez_content_name( folder ) }}</li>
        {% endfor %}
        </ul>
    </div>

    {# Only display pagerfanta navigator if needed. #}
    {% if pagerFolder.haveToPaginate() %}
    <div class="pagerfanta">
        {{ pagerfanta( pagerFolder,
'twitter_bootstrap_translated', {'routeName': location}
) }}
    </div>
    {% endif %}

{% endblock %}
```

For more information and examples, have a look at PagerFanta documentation.

Adapters

Adapter class name	Description
`eZ\Publish\Core\Pagination\Pagerfanta\ContentSearchAdapter`	Makes the search against passed Query and returns Content objects.
`eZ\Publish\Core\Pagination\Pagerfanta\ContentSearchHitAdapter`	Same as ContentSearchAdapter but returns instead SearchHit objects.
`eZ\Publish\Core\Pagination\Pagerfanta\LocationSearchAdapter`	Makes a Location search against passed Query and returns Location objects.
`eZ\Publish\Core\Pagination\Pagerfanta\LocationSearchHitAdapter`	Same as LocationSearchAdapter but returns instead SearchHit objects.