

How to paginate API search results

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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.

Usage

```

<?php
namespace Acme\TestBundle\Controller;

use eZ\Publish\Core\Pagination\Pagerfanta\ContentSearchAdapter;
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()->loadLocation( $locationId ),
            ) + $params
        );
    }
}

```

my_template.html.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.