

Import Statement

use

Magento\Catalog\Api\ProductRepositoryInterface;
use Magento\Catalog\Api\Data\ProductInterfaceFactory;

Constructor

```
/**
 * @var ProductRepositoryInterface
 */
protected $productRepositoryInterface;
/**
 * @var ProductInterfaceFactory
 * /
protected $productInterfaceFactory;
 * @param ProductRepositoryInterface $productRepo-
sitoryInterface
* /
public function __construct(
    ProductRepositoryInterface $productRepository-
Interface,
    ProductInterfaceFactory $productInterfaceF-
actory,
) {
    $this->productRepositoryInterface = $productR-
epositoryInterface;
    $this->productInterfaceFactory = $productInte-
rfaceFactory;
```

Product Types

\Magento\Catalog\Model\Product\Type::TYPE_SIMPLE \Magento\Catalog\Model\Product\Type::TYPE_BUNDLE \Magento\Catalog\Model\Product\Type::TYPE_VIRTUAL \Magento\Downloadable\Model\Product\Type::TYPE_D-OWNLOADABLE

\Magento\ConfigurableProduct\Model\Product\Type-\Configurable::TYPE_CODE

\Magento\GroupedProduct\Model\Product\Type\Group-ed::TYPE_CODE

Get info about product by product SKU

\$product = \$this->productRepositoryInterface>get(\$sku);

/**

- * @param string \$sku
- * @param bool \$editMode
- * @param int|null \$storeId
- * @param bool \$forceReload
- * @return \Magento\Catalog\Api\Data\ProductInterface
- * @throws \Magento\Framework\Exception\NoSuchEntityException

*/

Get info about product by product id

\$product = \$this->productRepositoryInterface>getById(\$productId);

/**

- * @param int \$productId
- * @param bool \$editMode
- * @param int|null \$storeId
- * @param bool \$forceReload
- * @return \Magento\Catalog\Api\Data\ProductInterface
- $\begin{tabular}{ll} * @throws $$ \agento\Framework\Exception\NoSuchEntityException \end{tabular}$

*/



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Magento 2 Product Repository Cheatsheet Cheat Sheet

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Delete by SKU

\$this->productRepositoryInterface>deleteById(\$sku);

/**

- * @param string \$sku
- * @return bool Will returned True if deleted
- * @throws \Magento\Framework\Exception\NoSuchEntityException
- * @throws \Magento\Framework\Exception\StateException

*/

Create New Product

```
$product = $this->productInterfaceFactory
    ->create()
    ->setSku('SKU');
// other required attributes
$product = $this->productRepositoryInterface->s-
ave($product);
```

Update Existing Product

```
$product = $this->productRepositoryInterface-
>get('SKU');
$product->setStatus(\Magento\Catalog\Model\Produ-
ct\Attribute\Source\Status::STATUS_DISABLED);
$updated = $this->productRepositoryInterface->s-
ave($product);
```

Advanced Search Filter Group

/**

* @var \Magento\Catalog\Api\ProductRepositoryInterface

* /

private \$productRepository;

/**

* @var \Magento\Framework\Api\SearchCriteriaBu-ilder

*/

private \$searchCriteriaBuilder;

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Advanced Search Filter Group (cont)

/**

* @var \Magento\Framework\Api\FilterBuilder

*/

private \$filterBuilder;

/**

* @var \Magento\Framework\Api\Search\FilterGro-upBuilder

*/

private \$filterGroupBuilder;

/**

* @var \Magento\Framework\Api\SortOrderFactory

*

private \$sortOrder;

/**

* @param \Magento\Catalog\Api\ProductRepositoryInterface \$productRepository

* @param \Magento\Framework\Api\SearchCriteriaBu-ilder \$searchCriteriaBuilder

* @param \Magento\Framework\Api\FilterBuilder \$filterBuilder

* @param \Magento\Framework\Api\Search\FilterGro-upBuilder \$filterGroupBuilder

* @param \Magento\Framework\Api\SortOrderFactory \$sortOrder

*/

public function __construct(

\Magento\Catalog\Api\ProductRepositoryInterface \$productRepository,

\Magento\Framework\Api\SearchCriteriaBuilder
\$searchCriteriaBuilder,

\Magento\Framework\Api\FilterBuilder \$filterBuilder,

\Magento\Framework\Api\Search\FilterGroupB-uilder \filterGroupBuilder,



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Advanced Search Filter Group (cont)

```
\Magento\Framework\Api\SortOrderFactory
$sortOrder
) {
    $this->productRepository = $productRepository;
    $this->searchCriteriaBuilder = $searchCrite-
riaBuilder:
   $this->filterBuilder = $filterBuilder;
    $this->filterGroupBuilder = $filterGroupBui-
lder:
    $this->sortOrder = $sortOrder;
[...]
$filter1 = $this->filterBuilder
   ->setField("url")
    ->setValue("%magento.com")
    ->setConditionType("like")
    ->create();
$filter2 = $this->filterBuilder
    ->setField("store_id")
   ->setValue("1")
    ->setConditionType("eq")
    ->create();
$filterGroup1 = $this->filterGroupBuilder
    ->setFilters([$filter1, $filter2])
    ->create();
$filter3 = $this->filterBuilder
    ->setField("url_type")
```

Advanced Search Filter Group (cont)

```
->setValue(1)
->setConditionType("eq")
->create();

$filterGroup2 = $this->filterGroupBuilder
->setFilters([$filter3])
->create();

$searchCriteria = $this->searchCriteriaBuilder->-
create();

$searchCriteria->setFilterGroups([$filterGroup1,
$filterGroup2]);

$this->productRepository->getList($searchCriteri-
a)->getItems();
```

The code above creates a Search Criteria with the Filters put together in the following way: (url like %magento.com OR store_id eq 1) AND (url_type eq 1)

Search Criteria

```
/**
  * @var ProductRepositoryInterface
  */
private $productRepositoryInterface;
/**
  * @var SearchCriteriaBuilder
  */
private $searchCriteriaBuilder;
/**
  * @param ProductRepositoryInterface $productRepositoryInterface
  * @param SearchCriteriaBuilder $searchCriteria-Builder
```



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Search Criteria (cont)

```
public function __construct(
    ProductRepositoryInterface $productRepository-
Interface,
    SearchCriteriaBuilder $searchCriteriaBuilder
) {
    $this->productRepository = $productRepository-
Interface;
    $this->searchCriteriaBuilder = $searchCrite-
riaBuilder:
/**
 * Get products by ids
 * @param array $productIds
 * @return ProductInterface[]
public function getProducts(array $productIds):
array
    $this->searchCriteriaBuilder->addFilter('enti-
ty_id', $productIds, 'in');
    $searchCriteria = $this->searchCriteriaBuilde-
r->create();
    $products = $this->productRepositoryInterf-
ace->getList($searchCriteria)->getItems();
    $count = $products->getTotalCount();
    return $products;
```

Useful constants

```
\Magento\Catalog\Api\Data\ProductInterface::SKU
\Magento\Catalog\Api\Data\ProductInterface::NAME
\Magento\Catalog\Api\Data\ProductInterface::PRICE
\Magento\Catalog\Api\Data\ProductInterface::WEIGHT
\Magento\Catalog\Api\Data\ProductInterface::STATUS
\Magento\Catalog\Api\Data\ProductInterface::VISI-
BILTTY
\Magento\Catalog\Api\Data\ProductInterface::ATTR-
IBUTE_SET_ID
\Magento\Catalog\Api\Data\ProductInterface::T-
YPE_ID
\Magento\Catalog\Api\Data\ProductInterface::CREA-
TED AT
\Magento\Catalog\Api\Data\ProductInterface::UPDA-
TED_AT
\Magento\Catalog\Api\Data\ProductInterface::MEDI-
A GALLERY
\Magento\Catalog\Api\Data\ProductInterface::TIER-
PRICE
```

Advanced Search

```
/**
  * @var \Magento\Catalog\Api\ProductRepositoryI-
nterface
  */
private $productRepository;
/**
  * @var \Magento\Framework\Api\SearchCriteriaBu-
ilder
  */
private $searchCriteriaBuilder;
/**
  * @var \Magento\Framework\Api\FilterBuilder
  */
* @var \Magento\Framework\Api\FilterBuilder
  */
```



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Advanced Search (cont)

```
private $filterBuilder;
 * @var \Magento\Framework\Api\SortOrderFactory
private $sortOrder;
/**
 * @param \Magento\Catalog\Api\ProductRepositoryI-
nterface $productRepository
* @param \Magento\Framework\Api\SearchCriteriaBu-
ilder $searchCriteriaBuilder
* @param \Magento\Framework\Api\FilterBuilder
$filterBuilder
 * @param \Magento\Framework\Api\SortOrderFactory
$sortOrder
public function __construct(
    \Magento\Catalog\Api\ProductRepositoryInte-
rface $productRepository,
    \Magento\Framework\Api\SearchCriteriaBuilder
$searchCriteriaBuilder,
    \Magento\Framework\Api\FilterBuilder $filte-
rBuilder,
    \Magento\Framework\Api\SortOrderFactory
$sortOrder
) {
    $this->productRepository = $productRepository;
    $this->searchCriteriaBuilder = $searchCrite-
riaBuilder:
    $this->filterBuilder = $filterBuilder;
    $this->sortOrder = $sortOrder;
}
 * Retrieves products to be sent
```

Advanced Search (cont)

```
* @param array $excludedIds
 * @param array $filterIds
 * @param int $page
 * @param int $pageSize
 * @return ProductInterface[]
 * @throws \Magento\Framework\Exception\InputEx-
ception
*/
public function retrieve(
   array $excludedIds,
   array $filterIds,
   int $page = 1,
   int $pageSize = 100
) : array {
    $this->searchCriteriaBuilder->addFilter('type-
        \Magento\Catalog\Model\Product\Type::TY-
PE_SIMPLE,
        \Magento\Downloadable\Model\Product\Typ-
e::TYPE_DOWNLOADABLE
   ], 'in');
    if (count($filterIds)) {
        $this->searchCriteriaBuilder->addFilter-
('entity_id', $filterIds, 'in');
   }
    if (count($excludedIds)) {
        $this->searchCriteriaBuilder->addFilter-
('entity_id', $excludedIds, 'nin');
    $sortOrder = $this->sortOrder->setField('up-
dated_at')
```



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Advanced Search (cont)

Useful Constants

\Magento\Framework\Api\SortOrder::SORT_ASC \Magento\Framework\Api\SortOrder::SORT_DESC

Print Query String

```
$products = $this->productRepositoryInterface-
>getList($searchCriteria)
echo $products->getSelect()->assemble();
```



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