

Links, Aliases and URLs

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Create an external url

use Drupal\Core\Url

\$url = Url::fromUri('http://testsite.com/go/here');

Create an internal url

First a simple URL:

Then something more complicated like this URL to /reports/search?user=admin

```
$option = [
  'query' => ['user' => 'admin'],
];
$url = Url::fromUri('internal:/reports/search', $option);
```

The Drupal Core Url Class

The Drupal\Core\Url class is often used to create URL's. Two important methods are:

Url::fromRoute() which takes a route name and parameters and

Url::fromUri() which takes an internal or external URL

See how these are used in some of the examples below.

The Drupal Core Link Class

Closely related and often used in conjunction with the Drupal Core URL class is the Drupal\Core\Link class.

You can generate links several different ways.

Create a link to a node

```
//Using link generator to create a GeneratedLink.

$url = Url::fromUri('internal:/node/1');

$link = \Drupal::service('link_generator')->generate('My link', $url);
```

Create a link to a path with parameters

To create a link to a path like /reports/search?user=admin use this code.

```
$option = [
'query' => ['user' => 'admin'],
];
$url = Url::fromUri('internal:/reports/search', $option);

// use the Link class.
$link = Link::fromTextAndUrl('My link', $url);
$renderable_array = $link->toRenderable();
return $renderable_array;
```

Another way to create a link to a node:

```
$nid = $item->id();
$options = ['relative' => TRUE]; //could be absolute instead of relative.

$url = Url::fromRoute('entity.node.canonical',['node' => $nid], $options);
$link = \Drupal::service('link_generator')->generate('My link', $url);
```

Create a link from an internal URL

```
use Drupal\Core\Url

$url = Url::fromUri('internal:/reports/search');
$link = \Drupal::service('link_generator')->generate('My link', $url);

// ->toString() will extract the string of the URL.
$url_string = Url::fromUri('internal:/node/' . $id)->toString();
```

Check if a link field is empty

```
if (!$citation_node->field_link->uri) {
  // Empty.
}
```

Retrieve a link field from a node or a paragraph

The link field field_link is extracted from the node and a valid uri is extracted from that field.

```
$correction_node = Node::load($nid);
$current_url = $correction_node->get('field_link')->uri;
```

Or from a paragraph field

```
use Drupal\paragraphs\Entity\Paragraph;

$para = Paragraph::load($target_id);

$link = $para->field_link;

$link_uri = $para->field_link->uri;
```

Or a more convoluted example that extracts the url string for display from a link field.

```
if ($sf_contract) {
    // first() returns a Drupal\link\Plugin\FieldType\Link\Item
    $vendor_url = $sf_contract->field_vendor_url->first();
    if ($vendor_url) {
        // returns a Drupal\Core\Url.
        $vendor_url = $vendor_url->getUrl();
        $vendor_url_string = $vendor_url->toString();
    }
}
```

Removing ->first() as in:

```
$vendor_url = $sf_contract->field_vendor_url;
```

returns a Drupal\Core\Field\Field\Field\temList which is a list of fields so you then would have to pull out the first field and extract the URI out of that. I'm not sure why Drupal considers it multiple values instead of just one. This was not set up as a multivalue field.

Retrieve a URL field

External links

You can get the URL (for external links) and then just the text part.

Note this doesn't work for internal links. Note also this slightly convoluted example has a reference field field_sf_contract_ref which has a link to another entity and the field_vendor_url->first()->getUrl() is the important part. Also note, this is a single-value field (not a multivalue field – so the first() call may be a little disturbing to those who expect things to be a little clearer.)

```
$vendor_url = $node->field_sf_contract_ref->entity->field_vendor_url->first()->getUrl();
if ($vendor_url) {
    $vendor_url = $vendor_url->getUri();
    //OR
    $vendor_url = $vendor_url->toString();
}
```

A slightly simpler example from a form

```
$citation_link = $citation->get('field_link');
if (!$citation_link->isEmpty()) {
    $citation_link = $citation->field_link->first()->getUrl()->toString();
}
```

Internal links

For internal links, use getUrl()for the URL and ->title for the title.

Get the NID from a URL Alias

To get the nid for a node, you can pass the URL alias to getPathByAlias.

```
// Given "/test-node, returns "/node/32".

$alias = "/test-node";

$path = \Drupal::service('path_alias.manager')->getPathByAlias($alias);
```

OR

If you have a URL for a node and you want its nid

```
$route = $url->getRouteParameters();
// first check if it's a node.
if (isset($route['node'])) {
    $nid = $route['node'];
}
```

Get the Taxonomy Term ID from a URL alias

Returns taxonomy/term/5

```
$term_path_with_tid = \Drupal::service('path_alias.manager')->getPathByAlias('/hunger-strike');
```

Get URL alias for a taxonomy term

This returns term/5 if no alias is set, otherwise it returns the alias.

```
$term5_url = Url::fromRoute('entity.taxonomy_term.canonical', ['taxonomy_term' => 5], $options);
$term5_alias = $term5_url->toString();
```

Get the User ID from a URL alias

Returns "/user/2"

```
//User

$user_path_with_uid = \Drupal::service('path_alias.manager')->getPathByAlias('/selwyn-the-chap');
```

Get the URL alias for a node

If no alias is set, this will return "/node/32". Note. If there are multiple aliases, you will get the most recently created one.

```
$node_path = '/node/32';
$node32_alias = \Drupal::service('path_alias.manager')->getAliasByPath($node_path);
```

Use this code if you need the absolute URL . If node/32 has a URL alias set to "/test-node" it returns "https://d9book2.ddev.site/test-node" . If you specify absolute => FALSE, it returns "/test-node" .

```
use Drupal\Core\Url;

// Note. If a pathauto url alias is not set, it returns '/node/32'

$nid = 32;

$options = ['absolute' => TRUE];

$url = Url::fromRoute('entity.node.canonical', ['node' => $nid], $options);

// make a string

$url_string = $url->toString();
```

Create a Node Alias

URL aliases are entities so you create them like you would any entity. Be sure to save() them.

```
$node_path = "/node/32";
$new_alias = "/test-node";

/** @var \Drupal\path_alias\PathAliasInterface $path_alias */
$my_node_alias = \Drupal::entityTypeManager()->getStorage('path_alias')->create([
    'path' => $node_path,
    'alias' => $new_alias,
    'langcode' => 'en',
]);
$my_node_alias->save();
```

Get the current Path

This returns the current relative path. For node pages, the return value will be in the form "/node/32" For taxonomy "taxonomy/term/5", for user "user/2" if it exists otherwise it will return the current request URI.

```
$currentPath = \Drupal::service('path.current')->getPath();
// Or with alias and query string.
$alias = \Drupal::request()->getRequestUri();
// Or
$url_string = Url::fromRoute('<current>')->toString();
```

Get current nid, node type and title

There are two ways to retrieve the current node – via the request or via the route

```
$node = \Drupal::request()->attributes->get('node');
$nid = $node->id();
```

OR

```
$node = \Drupal::routeMatch()->getParameter('node');
if ($node instanceof \Drupal\node\NodeInterface) {
   // You can get nid and anything else you need from the node object.
   $nid = $node->id();
   $nodeType = $node->bundle();
   $nodeTitle = $node->getTitle();
}
```

If you need to use the node object in hook_preprocess_page() on the preview page, you need to use the "node_preview" parameter, instead of the "node" parameter:

```
function mymodule_preprocess_page(&$vars) {
    $route_name = \Drupal::routeMatch()->getRouteName();

if ($route_name == 'entity.node.canonical') {
    $node = \Drupal::routeMatch()->getParameter('node');
}
elseif ($route_name == 'entity.node.preview') {
    $node = \Drupal::routeMatch()->getParameter('node_preview');
}
```

And from https://drupal.stackexchange.com/questions/145823/how-do-i-get-the-current-node-id when you are using or creating a custom block then you have to follow this code to get current node id. Not sure if it is correct

```
use Drupall:routeMatch()->getParameter('node');

if (Snode instanceof \Drupalmode\Node\nterface) {
    Snid = $node->id();
}

// Nor cache

public function getCacheTags() {
    //With this when your node changes your block will rebuild

if ($node = \Drupalmode\nterface) {
    // With this when your node changes your block will rebuild

if ($node = \DrupalchirouteMatch()->getParameter('node')) {
    // With the is node add its cachetag
    return Cache::mergeTags(parent::getCacheTags(), [node': .$node->id());
}

else {
    // Return default tags instead.
    return parent::getCacheTags();
}

public function getCacheContexts() {
    // you must set context of this block with Youte' context tag

// You must set context of this block with Youte' context tag

// Every new route this block will rebuild

return Cache::mergeContexts(parent::getCacheContexts(), [route']);
}
```

How to get current Route name

A Drupal route is returned in the form of a string e.g. view.files_browser.page_1

```
$current_route = \Drupal::routeMatch()->getRouteName();
```

It returns "entity.node.canonical" for the nodes, "system.404" for the 404 pages, "entity.taxonomy_term.canonical" for the taxonomy pages, "entity.user.canonical" for the users and custom route name that we define in modulename.routing.yml file.

Get current Document root path

This will return the current document root path like "/var/www/html/project1".

```
$image_path = \Drupal::service('file_system')->realpath();
```

Retrieve URL argument parameters

You can extract the url arguments with

```
$current_path = \Drupal::service('path.current')->getPath();
$path_args = explode('/', $current_path);
$term_name = $path_args[3];
```

For https://txg.ddev.site/newsroom/search/?country=1206

Retrieve query and GET or POST parameters (\$_POST and \$_GET)

For get variables

```
$query = \Drupal::request()->query->get('name');
$name = $_GET['abc'];
```

For POST variables:

```
$name = \Drupal::request()->request->get('name');
//or
$name = $_POST['abc'];
```

For all items in a GET:

```
$query = \Drupal::request()->query->all();
$search_term = $query['query'];
$collection = $query['collection'];
```

Be wary about caching. From https://drupal.stackexchange.com/questions/231953/get-in-drupal-8/231954#231954 the code provided only works the first time so it is important to add a '#cache' context in the markup.

The request is being cached, you need to tell the system to vary by the query arguments:

```
$day = [
   '#markup' => \Drupal::request()->query->get('id'),
   '#cache' => [
       'contexts' => ['url.query_args:id'],
    ],
];
```

More about caching render arrays: https://www.drupal.org/docs/8/api/render-api/cacheability-of-render-arrays

Modify URL Aliases programmatically with hook pathauto alias alter

The pathauto contrib module includes a nice hook that you can use to modify url aliases on the fly.

You just do your necessary checks (the current entity is stored in \context['data']) and change the alias that is passed. Pathauto does the rest.

As implemented in a module file.

```
function dirt_pathauto_alias_alter(&$alias, array &$context) {
 $pattern = $context["pattern"];
 $bundles = ['page', 'audience', 'overview', 'program_area'];
 if (in_array($context["bundle"], $bundles)) {
  $op = $context['op'];
  if (in_array($op, ['insert', 'update', 'bulkupdate'])) {
   $parts = explode('/', $alias);
   if (count($parts) == 2) {
    if ($parts[0] == "") {
      $id = $pattern->id();
      if ($id == "default") {
        $nid = $context["data"]["node"]->id();
       $parent_link = _findParentMenuItem($nid);
        if ($parent link) {
         $parent_alias = $parent_link['#url']->toString();
         if ($parent_alias) {
          $alias = $parent_alias . $alias;
```

Drupal I() is deprecated

DEPRECATED

The I() method (lower case letter L) was a convenience wrapper for the link generator service's generate() method. So do this instead:

```
use Drupal\Core\Url;
use Drupal\Core\Link;
$url = Url::fromRoute('entity.node.edit_form', ['node' => NID]);
$project_link = Link::fromTextAndUrl(t('Open Project'), $url);
$project_link = $project_link->toRenderable();
$project_link["#attributes"] = ['class' => ['button', 'button-action', 'button--primary', 'button--small']];
print render($project_link);
```

Reference links

- Good reference from 2017 for creating links in Drupal
- #! code: Drupal 9: Programmatically Creating And Using URLs And Links, March 2022

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