

Routing

Overview

All components can be accessed through a query string by using the option parameter which will equate to the name of the component. For example, to access the "Blog" component, you could type `http://yourhub.org/index.php?option=com_blog`.

When SEF URLs are being employed, the first portion after the site name will almost always be the name of a component. For the URL `http://yourhub.org/blog`, the first portion after the slash translates to the component `com_blog`. If a matching component cannot be found, routing will attempt to match against an article section, category, and/or page alias.

While not required, most components will have more detailed routing instructions that allow SEF URLs to be made from and converted back into query strings that pass necessary data to the component. This is done by the inclusion of a file called `router.php`.

The Router

Every `router.php` file has two methods: `{ComponentName}BuildRoute()` which takes a query string and turns it into a SEF URL and `{ComponentName}ParseRoute()` which deconstructs a SEF URL back into a query string to be passed to the component.

```
function ExampleBuildRoute(&$query)
{
    $segments = array();

    if (!empty($query['task']))
    {
        $segments[] = $query['task'];
        unset($query['task']);
    }
    if (!empty($query['id']))
    {
        $segments[] = $query['id'];
        unset($query['id']);
    }
    if (!empty($query['format']))
    {
        $segments[] = $query['format'];
        unset($query['format']);
    }

    return $segments;
```

```
}

function ExampleParseRoute($segments)
{
    $vars = array();

    if (empty($segments))
    {
        return $vars;
    }
    if (isset($segments[0]))
    {
        $vars['task'] = $segments[0];
    }
    if (isset($segments[1]))
    {
        $vars['id'] = $segments[1];
    }
    if (isset($segments[2]))
    {
        $vars['format'] = $segments[2];
    }

    return $vars;
}
```

{ComponentName}BuildRoute()

This method is called when using `JRoute::_()`. `JRoute::_()` passes the query string (minus the `option={componentname}` portion) to the method which returns an array containing the necessary portions of the URL to be constructed *in the order* they need to appear in the final SEF URL.

```
// $query = 'task=view&id=123&format=rss'
function ExampleBuildRoute(&$query)
{
    $segments = array();

    if (!empty($query['task']))
    {
        $segments[] = $query['task'];
        unset($query['task']);
    }
}
```

```
if (!empty($query['id']))
{
    $segments[] = $query['id'];
    unset($query['id']);
}
if (!empty($query['format']))
{
    $segments[] = $query['format'];
    unset($query['format']);
}

return $segments;
}
```

Will return:

```
Array(
    'view',
    '123',
    'rss'
);
```

This will in turn be passed back to `JRoute::_()` which will construct the final SEF URL of `example/view/123/rss`.

{ComponentName}ParseRoute()

This method is automatically called on each page view. It is passed an array of segments of the SEF URL that called the page. That is, a URL of `example/view/123/rss` would be separated by the forward slashes with the first segment automatically being associated with a component name. The rest are stored in an array and passed to `{ComponentName}ParseRoute()` which then associates each segment with an appropriate variable name based on the segment's position in the array.

```
function ExampleParseRoute($segments)
{
    $vars = array();

    if (empty($segments))
    {
```

```
    return $vars;
}
if (isset($segments[0]))
{
    $vars['task'] = $segments[0];
}
if (isset($segments[1]))
{
    $vars['id'] = $segments[1];
}
if (isset($segments[2]))
{
    $vars['format'] = $segments[2];
}

    return $vars;
}
```

Note: Position of segments is very important here. A URL of `example/view/123/rss` could yield completely different results than a URL of `example/rss/view/123`.