djed.static Documentation

Release 0.4

Djed developers

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djed.static integrates BowerStatic into the Pyramid Web Framework. BowerStatic is a WSGI component that can serve static resources from front-end packages (JavaScript, CSS) that you install through the Bower package manager.

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1.1 Getting Started

Install the package into your python environment:

```
$ /path/to/pyvenv/bin/pip install djed.static
```

Include it in your Pyramid application:

```
config.include('djed.static')
```

Set-up the path to the `bower_components` directory in your `.ini` file:

```
[app:main]
# ... other settings ...
djed.static.components_path = myapp:static/bower_components
```

Or use the following statement to add the `bower_components` directory:

```
config.add_bower_components('myapp:static/bower_components')
```

Include static resources on your HTML page. You can do this in templates or somewhere else in your code:

```
request.include('jquery')
```

All additional required resources are automatically resolved and are also included on your HTML page.

1.2 Local Components

If you develop your own front-end-code (so called "local components"), you can also publish them with BowerStatic.

First of all you have to create a `bower_components` directory:

```
config.add_bower_components('myapp:static/bower_components')
```

Local components can depend on all available packages in this directory.

If you have created such a local `bower_components` directory, you can add one or more local components:

```
config.add_bower_component('myapp:static/my_component', version='1.0.0')
```

Note: You can retrieve the version of your Pyramid application like this:

```
import pkg_resources
version = pkg_resources.get_distribution('myapp').version
```

Now you can include the added local components on your HTML page like any other component:

```
request.include('my_component')
```

This includes your front-end-code in the HTML page and all dependencies that are defined in the `bower.json` file.

1.3 Multiple Component Directories

BowerStatic provides the possibility to create more than one `bower_components` directory. Each directory is an "isolated universe" of components. Components in a `bower_components` directory can depend on each other only – they cannot depend on components in another directory.

To use multiple `bower_components` directories, you need to give them names:

```
config.add_bower_components('myapp:static/more_components', name='more')
```

You can use components from this directories as follows:

```
request.include('jquery', 'more')
```

To use this `bower_components` directory for local components:

```
config.add_bower_component('myapp:static/my_component', verions='1.0.0',
                           name='more')
```

After that, you can include your local components on the HTML page:

```
request.include('my_component', 'more')
```

1.4 Configuration

You can configure djed.static via your ini-file:

```
[app:myapp]
djed.static.components_name = lib
...
```

To understand the ini-setting options, let's take a look at the URL structure that is generated by BowerStatic:

```
/bowerstatic/components/jquery/2.1.1/dist/jquery.js
```

The setting options allow you to change the first part of all your components URLs and configure the name and the path of the default `bower_components` directory:

djed.static.publisher_signature The first part of all components URLs.

> default: `bowerstatic`

djed.static.components_path The path or asset specification to the default `bower_components` directory.

> default: `None`

djed.static.components_name The name for the default components collection.

> default: `components`

1.5 Support and Development

If you've got questions, contact the djedproject mailling list.

To report bugs, use the issue tracker.

Check out trunk version via the Github repository:

```
git clone git@github.com:djedproject/djed.static.git
```

1.6 Changes

1.6.1 0.4 (2015-05-24)

- Simplified creation of local components
- Added setting option *components_path*
- Changed to PEP 420 namespace package

1.6.2 0.3 (2015-01-10)

- Support multiple *bower_components* directories

1.6.3 0.2 (2015-01-09)

- Added documentation
- Added setting options via ini file

1.6.4 0.1 (2015-01-06)

- Initial release

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