
asphalt-templating

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This Asphalt framework component provides a standardized interface for a number of different templating renderers:

- Django
- Jinja2
- Mako
- Tonnikala
- Tornado

Additional backends may be provided through third party plugins.

CHAPTER 1

Configuration

To configure a template renderer for your application, you need to choose a backend and then specify any necessary configuration values for it. The following backends are provided out of the box:

- django
- jinja2
- mako
- tonnikala
- tornado

Other backends may be provided by other components.

Once you've selected a backend, see its specific documentation to find out what configuration values you need to provide, if any. Configuration values are expressed as constructor arguments for the backend class:

```
components:
    templating:
        backend: mako
        package_paths:
            - myapp.somepackage/templates
```

This configuration publishes a `asphalttemplating.api.TemplateRenderer` lazy resource named `default` using the Mako backend, accessible as `ctx.mako`. The renderer will look for templates in the `templates` subdirectory of the `myapp.somepackage` package.

The same can be done directly in Python code as follows:

```
class ApplicationComponent(ContainerComponent):
    async def start(ctx: Context):
        self.add_component('templating', backend='mako',
                           package_paths=['myapp.somepackage/templates'])
        await super().start()
```

Multiple renderers

If you need to configure multiple renderers, you can do so by using the `renderers` configuration option:

```
components:
    templating:
        renderers:
            django:
                package_paths:
                    - myapp.somepackage/templates/django
            jinja2:
                package_name: myapp.somepackage
                package_path: templates/jinja2
            mako:
                package_paths:
                    - myapp.somepackage/templates/mako
            tonnikala:
                package_paths:
                    - myapp.somepackage/templates/tonnikala
            tornado:
                package_path: myapp.somepackage/templates/tornado
            foobar:
                backend: jinja2
                context_attr: foo
                package_name: myapp.somepackage
                package_path: templates/jinja2
```

The above configuration creates 5 lazy resources of type `asphalt.templating.api.TemplateRendererProxy`:

- django as `ctx.django`
- jinja2 as `ctx.jinja2`
- mako as `ctx.mako`
- tonnikala as `ctx.tonnikala`
- tornado as `ctx.tornado`
- foobar as `ctx.foo`

CHAPTER 2

Using template renderers

Using renderers is quite straightforward. For example, to render a Jinja2 template named `templatefile.html`:

```
async def handler(ctx):
    text = ctx.jinja2.render('templatefile.html', somevariable='foo')
```

This example assumes a configuration with a Jinja2 renderer and a Jinja2 template file named `templatefile.html` in the designated template directory.

To directly render a template string:

```
async def handler(ctx):
    text = ctx.jinja2.render_string('This is foo: {{ foo }}', somevariable='foo')
```


CHAPTER 3

Writing new renderer backends

If you wish to implement an alternate method of template rendering, you can do so by subclassing the `TemplateRenderer` class. There is only one method implementors must override:

- `render()`

If you want your renderer to be available as a backend for `TemplatingComponent`, you need to add the corresponding entry point for it. Suppose your serializer class is named `AwesomeRenderer`, lives in the package `foo.bar.awesome` and you want to give it the alias `awesome`, add this line to your project's `setup.py` under the `entry_points` argument in the `asphalt.templating.renderers` namespace:

```
setup(  
    # (...other arguments...)  
    entry_points={  
        'asphalt.templating.renderers': [  
            'awesome = foo.bar.awesome:AwesomeRenderer'  
        ]  
    }  
)
```


CHAPTER 4

Version history

This library adheres to [Semantic Versioning](#).

2.0.1 (2017-06-04)

- Added compatibility with Asphalt 4.0

2.0.0 (2017-04-11)

- **BACKWARD INCOMPATIBLE** Migrated to Asphalt 3.0
- **BACKWARD INCOMPATIBLE** Renamed the `asphalt.templates.util` module to `asphalt.templates.utils`
- Renderer resources are now added to the context using their actual types as well
- The Mako renderer now skips filesystem checks by default in production mode

1.0.0 (2015-05-21)

- Initial release
- API reference