

ASYNC UTILITIES

1. registered on load with configuration
2. async initialization / finalization
3. code invocation

```
- provides: guillotina_cms.interfaces.IWorkflowUtility  
factory: guillotina_cms.utilities.workflow.WorkflowUtility  
settings: {}
```

```
from guillotina.interfaces import IAsyncUtility

class IWorkflowUtility(IAsyncUtility):
    pass

@configure.utility(provides=IWorkflowUtility)
class WorkflowUtility:

    def __init__(self, settings={}, loop=None):
        self.loop = loop

    async def initialize(self, app):

    async def finalize(self, app):
```

```
from guillotina_cms.interfaces import IWorkflowUtility
```

```
self.utility = get_utility(IWorkflowUtility)
```

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```
from guillotina_cms.interfaces import IWorkflowUtility  
  
self.utility = get_utility(IWorkflowUtility)
```

VIEW

```
@configure.service(  
    context=IContainer, method='GET',  
    permission='guillotina.AccessContent', name='@types/{type_name}',  
    summary='Read information on available types',  
    responses={  
        "200": {  
            "description": "Result results on types",  
            "schema": {  
                "properties": {}  
            }  
        }  
    })  
  
class Read(Service):  
    async def __call__(self):  
        self.request  
        self.context
```