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# **aiohttp-things**

***Release 0.14.0***

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Modest utility collection for development with [AIOHTTP](#) framework.



## INSTALLATION

Installing aiohttp-things with pip:

```
pip install aiohttp-things
```

### 1.1 Examples

#### 1.1.1 Simple example

Example of AIOHTTP application

```
import json
import uuid
import aiohttp_things as ahth
from aiohttp import web

def safe_json_value(value):
    try:
        json.dumps(value)
        return value
    except (TypeError, OverflowError):
        return str(value)

class Base(web.View, ahth.JSONMixin, ahth.PrimaryKeyMixin):
    async def get(self):
        self.context['Type of primary key'] = safe_json_value(type(self.pk))
        self.context['Value of primary key'] = safe_json_value(self.pk)
        return await self.finalize_response()

class IntegerExample(Base):
    pk_adapter = int

class UUIDExample(Base):
    pk_adapter = uuid.UUID
```

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```

UUID = '[0-9a-f]{8}-[0-9a-f]{4}-[1-5][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12}'
ROUTES = [
    web.view('/integer/{pk:[0-9]+}', IntegerExample),
    web.view(f'/uuid/{{pk:{UUID}}}', UUIDExample),
]

async def app_factory():
    app = web.Application()
    app.add_routes(ROUTES)
    return app

if __name__ == '__main__':
    web.run_app(app_factory())

```

## Examples HTTP requests and response

- `http://0.0.0.0:8080/integer/1`

```

{
  "Type of primary key": "<class 'int'>",
  "Value of primary key": 1
}

```

- `http://0.0.0.0:8080/integer/999999999999999`

```

{
  "Type of primary key": "<class 'int'>",
  "Value of primary key": 999999999999999
}

```

- `http://0.0.0.0:8080/integer/a352da04-c1af-4a44-8a94-c37f8f37b2bc`

```

404: Not Found

```

- `http://0.0.0.0:8080/integer/abc`

```

404: Not Found

```

- `http://0.0.0.0:8080/uuid/a352da04-c1af-4a44-8a94-c37f8f37b2bc`

```

{
  "Type of primary key": "<class 'uuid.UUID'>",
  "Value of primary key": "a352da04-c1af-4a44-8a94-c37f8f37b2bc"
}

```

- `http://0.0.0.0:8080/uuid/13d1d0e0-4787-4feb-8684-b3da32609743`



```
{
  "Type of primary key": "<class 'uuid.UUID'>",
  "Value of primary key": "13d1d0e0-4787-4feb-8684-b3da32609743"
}
```

- <http://0.0.0.0:8080/uuid/1>

```
404: Not Found
```

- <http://0.0.0.0:8080/uuid/abc>

```
404: Not Found
```

## 1.2 Reference

### 1.2.1 Web handlers

**class** `aiohttp_things.AbstractHandler`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

**class** `aiohttp_things.ContextMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

**class** `HTTPMethodMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp_things.web_handlers.AbstractHandler`

**class** `aiohttp_things.PaginationMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

**class** `aiohttp_things.PrimaryKeyMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

**class** `aiohttp_things.ItemMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

**class** `aiohttp_things.ListMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

### Response mixins

**class** `aiohttp_things.Jinja2Mixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp_things.web_handlers.ContextMixin`

**class** `aiohttp_things.JSONMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp_things.web_handlers.ContextMixin`

**class** `aiohttp_things.ResponseFormatMixin`(*request: aiohttp.web\_request.Request*)  
Bases: `aiohttp.abc.AbstractView`

**class** `ResponseAutoformatMixin`(*request: aiohttp.web\_request.Request*)

Members

Show-inheritance

## 1.3 Releases

### 1.3.1 Version 0.14

#### Added

- Added `page_key` attribute instead `page` attribute;
- Added `page_key_adapter` attribute instead `page_adapter` attribute.

#### Deprecated

- `page` attribute is deprecated. Use `page_key`` attribute;
- `page_adapter` is deprecated. Use `page_key_adapter` attribute.

### 1.3.2 Version 0.13

#### Added

- `paginator` attribute to `PaginationMixin`.

### 1.3.3 Version 0.12

#### Added

- `ResponseAutoformatMixin`.

#### Changed

- Renamed `handlers` module to `web_handlers`.

### 1.3.4 Version 0.11

#### Added

- `HTTPMethodMixin`.

#### Removed

- `finalize_response` method in `AbstractHandler`.

### 1.3.5 Version 0.10

#### Added

- `AbstractHandler`.

#### Changed

- `views` module renamed to `handlers`;
- classes from `handlers` temporarily imported to empty `views` module for backward compatibility.

#### Removed

\*\* `InstanceMixin` a synonym for `ItemMixin`.

### 1.3.6 Version 0.9

#### Added

- Added `views.PaginationMixin`;
- Added `ContextMixin`, `ItemMixin`, `Jinja2Mixin`, `JSONMixin`, `ListMixin`, `PaginationMixin`, `PrimaryKeyMixin` to package namespace.

#### Removed

- `instance` attribute removed from `ItemMixin`, use `ItemMixin.item`;
- `pk_factory` attribute removed from `PrimaryKeyMixin`, use `PrimaryKeyMixin.pk_adapter`.

### 1.3.7 Version 0.8

**Added** \* `ResponseFormatMixin`

**Changed** \* `views.InstanceMixin` class renamed to `views.ItemMixin`; \* `views.ItemMixin` synonym renamed to `views.InstanceMixin`.

### 1.3.8 Version 0.7

#### Add

- `views.PrimaryKeyMixin.pk_adapter` instead `views.PrimaryKeyMixin.pk_factory`.

#### Deprecated

- `views.PrimaryKeyMixin.pk_factory`.

### 1.3.9 Version 0.6

#### Changed

- `views.InstanceMixin` and `views.ListMixin` inherited by `aiohttp.abc.AbstractView`;
- `views.ItemMixin` renamed to `views.InstanceMixin`.

### 1.3.10 Version 0.5

#### Removed

- `prepare_context()` method removed from `views.ContextMixin` and `views.ListMixin`.

### 1.3.11 Version 0.4

#### Added

\*\* added `views.Jinja2Mixin` (need install `aiohttp-jinja2`); \*\* added `views.JSONMxixin`; \*\* added `views.ListMixin`;

#### Changed

- `views.PrimaryKeyMixin` allocated in a separate mixin;
- `views.ItemMixin` inherited by `views.ContextMixin` and `views.PrimaryKeyMixin`.

### **1.3.12 Version 0.3.0**

#### **Changed**

- `views.PrimaryKeyMixin` renamed to `views.ItemMixin`.

#### **Added**

- Added `views.PrimaryKeyMixin` synonym for `views.ItemMixin`.

### **1.3.13 Version 0.2.0**

#### **Changed**

- Replace `aiohttp.abc.AbstractView` to `views.ContextMixin` in parent classes of `views.PrimaryKeyMixin`.

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