

PathManager Module

PathManager

□ routes: List[Dict[str, Any]]

□ runtime\_manager\_initialised: RuntimeManager

□ endpoints\_initialised: EndpointManager

□ runtime\_control\_initialised: RuntimeControl

○ \_\_init\_\_(success, error, debug)

○ add\_path(path, endpoint, method)

○ has\_endpoint(path, endpoint, method)

○ load\_default\_paths\_initialised()

○ inject\_routes()

□ endpoint\_valid(path, endpoint, method)

□ \_build\_endpoint(path, endpoint, method)

□ \_find\_route\_index(path, endpoint)

□ \_merge\_methods(existing, new)

**Internal Storage (routes):**  
Deferred routes structure:

```
[
  {
    "path": "/api/v1/users",
    "endpoint": function_ref,
    "method": ["GET", "POST"]
  }
]
```

**inject\_routes():**  
Final step that injects all stored routes into FastAPI app instance

PathConstants

○ PATH\_KEY: str = "path"

○ ENDPOINT\_KEY: str = "endpoint"

○ METHOD\_KEY: str = "method"

○ ALLOWED\_METHODS: List[str]

Core

RuntimeManager

○ get(class\_type)

○ get\_if\_exists(class\_type, default)

○ exists(class\_type)

RuntimeControl

○ app: FastAPI

FinalClass

« metaclass »

EndpointManager

EndpointManager

○ inject\_routes()

uses

injects routes into

retrieves instances

accesses FastAPI app

metaclass

loads routes from

FastAPI