🗔 **Documentation**   Language: Swift

/ PersistDriver

Protocol

PersistDriver

Protocol for driver supporting persistent Key/Value pairs across requests

```
protocol PersistDriver : Service
```

Topics

Instance Methods

`func create(key: String, value: some Codable & Sendable) async throws`

> create key/value pair. If key already exist throw `PersistError.duplicate` error

`func create<Object>(key: String, value: Object, expires: Duration?) async throws`

> create key/value pair. If key already exist throw `PersistError.duplicate` error
>
> **Required**

`func get<Object>(key: String, as: Object.Type) async throws -> Object?`

> get value for key
>
> **Required**

`func remove(key: String) async throws`

> remove value associated with key
>
> **Required**

```swift
func set(key: String, value: some Codable & Sendable) async throws
```

> set value for key. If value already exists overwrite it

```swift
func set<Object>(key: String, value: Object, expires: Duration?)
async throws
```

> set value for key. If value already exists overwrite it
>
> **Required**

```swift
func shutdown() async throws
```

> shutdown driver
>
> **Required** Default implementation provided.

Default Implementations

▤   Service Implementations

Relationships

Inherits From

`ServiceLifecycle.Service`, `Swift.Sendable`

Conforming Types

```
FluentPersistDriver
MemoryPersistDriver
PostgresPersistDriver
RedisPersistDriver
```

See Also

Storage

`actor` **MemoryPersistDriver**

In memory driver for persist system for storing persistent cross request key/value pairs

`struct` **PersistError**

Errors return by persist framework