

Information proxy

Author: Jesper Kristensen

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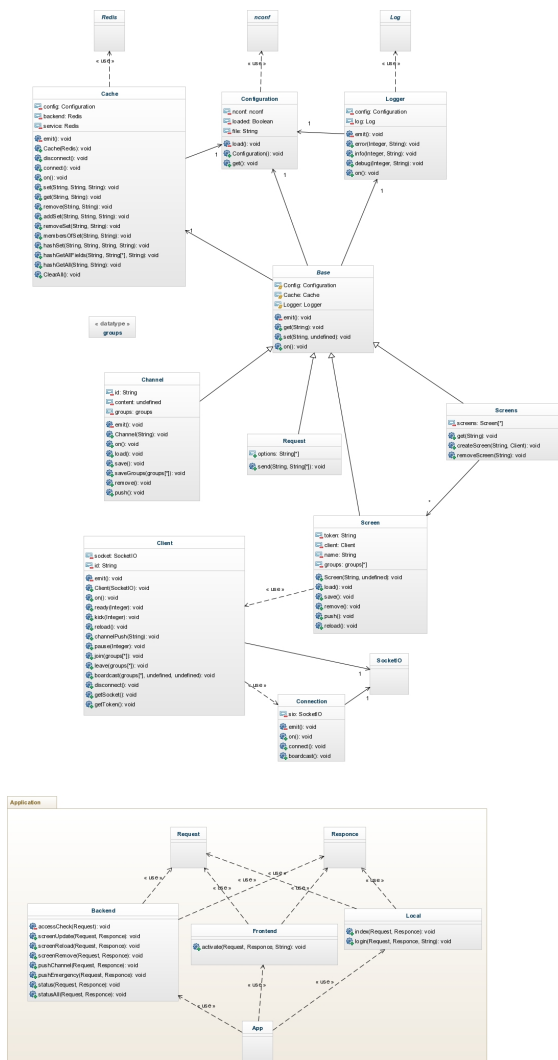
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1. Overview

1.1 Model Description

This is a proxy written for the content publishing framework better known as "Indholdskanalen".

1.2 Diagrams



2 Classifiers

2.1 Class Base

Abstract class to hold basic functions used in all inherited classes. Basic function to set/get properties and configuration.

2.1.1 Attributes

- **Config** : Configuration [1]

Description: Loaded configuration object.

- **Cache** : Cache [1]

Description: Cache object to store information about screens and content for the different groups.

- **Logger** : Logger [1]

Description: Logs information into tree types: error, debug and info.

2.1.2 Generalizations

None

2.1.3 Operations

- Void **emit** ()

Description: Emit an event.

- Void **get** (property : String)

Description: Get property of the object. If the property is not found and error is throw.

null

Description: Get property on the object. If the property is not found and error is throw.

- Void **on** ()

Description: Listen to events throw by the object.

2.1.4 Associations

- **configuration** : Configuration [1]

- **logger** : Logger [1]

- **cache** : Cache [1]

2.2 Class Configuration

Wrapper class to get configuration form the config.json file.

This is a singleton class to prevent loading the configuration more than once.

2.2.1 Attributes

- **nconf** : nconf [1]

Description: NConf module requirement.

- **loaded** : Boolean [1]

Description: True if the configuration file is loaded else false.

- **file** : String [1]

Description: Name of the configuration file.

2.2.2 Generalizations

None

2.2.3 Operations

- Void **load** ()

Description: Loads configuration from the filesystem.

- Void **Configuration** ()

Description: Default constructor that loads configuration file(s) on initialization.

- Void **get** ()

Description: Get configuration option as Object or String, if it's a single value.

2.3 Class Cache

Cache is used to speed up the communication with the frontend. It stores information from the backend and stores information from the frontend.

It's a singleton class to ensure that only on connection is created to the backend cache store.

2.3.1 Attributes

- **config** : Configuration [1]

Description: Loaded configuration object.

- **backend** : Redis [1]

Description: The backend end module or cache storage used.

- **service** : Redis [1]

Description: Connection to the backend storage used to store data that should be cached.

2.3.2 Generalizations

None

2.3.3 Operations

- Void **emit** ()

Description: Emit an event.

- Void **Cache** (backend : Redis)

Description: Default constructor for the class.

- Void **disconnect** ()

Description: Disconnect from the Redis server thereby freeing the connection.

- Void **connect** ()

Description: Create a connection to the Redis server.

- Void **on** ()

Description: Listen to event emitted from inside the object.

- Void **set** (key : String, value : String, callback : String)

Description: Set a simple string into the cache stored on the key given.

- Void **get** (key : String, callback : String)

Description: Get simple string from the cache indexed by the key given. When the string is retrieved the callback will be called.

- Void **remove** (key : String, callback : String)

Description: Remove simple string from the cache indexed by the key given. When the string is removed the callback will be called.

- Void **addSet** (key : String, value : String, callback : String)

Description: Add a string to a set indexed by key. If the key does not exist, a new set is created before adding the specified value.

When the string has be added to the set the callback is called.

- Void **removeSet** (key : String, value : String)

Description: Remove a string/member from a set indexed by key. When the string has be removed the callback is called.

- Void **membersOfSet** (key : String, callback : String)

Description: Returns all the strings of the set stored at the key.

- Void **hashSet** (key : String, hash : String, value : String, callback : String)

Description: Sets the value in a hash stored index by key to the value. If key does not exist, a new key holding a hash is created.

- Void **hashGetAllFields** (key : String, hashes : String, callback : String)

Description: Get all values/fields store in an hash based on "hashes" given in the parameter.

- Void **hashGetAll** (key : String, callback : String)

Description: Get all values in a hash.

- Void **ClearAll** ()

Description: Clears all cache entries.

2.3.4 Associations

- **configuration** : Configuration [1]

2.4 Class nconf

This is the NPM package that handles the config.js configuration file.

2.4.1 Attributes

No additional attributes

2.4.2 Generalizations

None

2.4.3 Operations

No additional operations

2.5 Class Logger

Wrapper class for the logger service used by the application.

2.5.1 Attributes

- **config** : Configuration [1]

Description: Loaded configuration object.

- **log** : Log [1]

Description: The logger service used.

2.5.2 Generalizations

None

2.5.3 Operations

- Void **emit** ()

Description: Emit an event.

- Void **error** (code : Integer, message : String)

Description: Log error message and trigger error event.

- Void **info** (code : Integer, message : String)

Description: Log info message and trigger info event.

- Void **debug** (code : Integer, message : String)

Description: Log debug message and trigger debug event.

- Void **on** ()

Description: Listen to event emitted from inside the object.

2.5.4 Associations

- **configuration** : Configuration [1]

2.6 Class Log

This is the NPM package that handles logging to either the file system or other logging resources.

2.6.1 Attributes

No additional attributes

2.6.2 Generalizations

None

2.6.3 Operations

No additional operations

2.7 Class Redis

This is the NPM package that handles communication with the Redis value/key store server.

2.7.1 Attributes

No additional attributes

2.7.2 Generalizations

None

2.7.3 Operations

No additional operations

2.8 Class Channel

2.8.1 Attributes

- **id** : String [1]

null

- **groups** : groups [1]

2.8.2 Generalizations

- **Base**

2.8.3 Operations

- Void **emit** ()

- Void **Channel** (channelID : String)

- Void **on** ()

- Void **load** ()

- Void **save** ()

- Void **saveGroups** (groups : groups)

- Void **remove** ()

- Void **push** ()

2.9 Class Client

2.9.1 Attributes

- **socket** : SocketIO [1]

- **id** : String [1]

2.9.2 Generalizations

None

2.9.3 Operations

- Void **emit** ()
- Void **Client** (SocketID : SocketIO)
- Void **on** ()
- Void **ready** (code : Integer)
- Void **kick** (code : Integer)
- Void **reload** ()
- Void **channelPush** (content : String)
- Void **pause** (code : Integer)
- Void **join** (groups : groups)
- Void **leave** (groups : groups)
- null
- Void **disconnect** ()
- Void **getSocket** ()

- Void **getToken** ()

2.9.4 Associations

- **socketIO** : SocketIO [1]

2.10 Class Connection

2.10.1 Attributes

- **sio** : SocketIO [1]

2.10.2 Generalizations

None

2.10.3 Operations

- Void **emit** ()
- Void **on** ()
- Void **connect** ()
- Void **boardcast** ()

2.10.4 Associations

- **socketIO** : SocketIO [1]

2.11 Class Request

Wrapper class to handle HTTP(s) calls to the backend for information about screens etc.

2.11.1 Attributes

- **options** : String [*]

2.11.2 Generalizations

- **Base**

2.11.3 Operations

- Void **send** (Path : String, json : String)

Description: Send request to the backend with a given path and json data.

2.12 Class Screen

2.12.1 Attributes

- **token** : String [1]
- **client** : Client [1]
- **name** : String [1]
- **groups** : groups [*]

2.12.2 Generalizations

- **Base**

2.12.3 Operations

null

- Void **load** ()

- Void **save** ()

- Void **remove** ()

- Void **push** ()

- Void **reload** ()

2.13 Class Screens

2.13.1 Attributes

- **screens** : Screen [*]

2.13.2 Generalizations

- **Base**

2.13.3 Operations

- Void **get** (token : String)

- Void **createScreen** (token : String, client : Client)

- Void **removeScreen** (token : String)

2.13.4 Associations

- **screen** : Screen [*]

2.14 Class SocketIO

2.14.1 Attributes

No additional attributes

2.14.2 Generalizations

None

2.14.3 Operations

No additional operations

3 Packages

3.1 Package Application

3.1.1 Class App

3.1.1.1 Attributes

No additional attributes

3.1.1.2 Generalizations

None

3.1.1.3 Operations

No additional operations

3.1.2 Class Backend

3.1.2.1 Attributes

No additional attributes

3.1.2.2 Generalizations

None

3.1.2.3 Operations

- Void **accessCheck** (req : Request)

- Void **screenUpdate** (req : Request, res : Response)

- Void **screenReload** (req : Request, res : Response)

- Void **screenRemove** (req : Request, res : Response)

- Void **pushChannel** (req : Request, res : Response)

- Void **pushEmergency** (req : Request, res : Response)

- Void **status** (req : Request, res : Response)

- Void **statusAll** (req : Request, res : Response)

3.1.3 Class Frontend

3.1.3.1 Attributes

No additional attributes

3.1.3.2 Generalizations

None

3.1.3.3 Operations

- Void **activate** (req : Request, res : Response, jwt_secret : String)

3.1.4 Class Local

3.1.4.1 Attributes

No additional attributes

3.1.4.2 Generalizations

None

3.1.4.3 Operations

- Void **index** (req : Request, res : Response)

- Void **login** (req : Request, res : Response, jwt_secret : String)

3.1.5 Class Request

3.1.5.1 Attributes

No additional attributes

3.1.5.2 Generalizations

None

3.1.5.3 Operations

No additional operations

3.1.6 Class Responce

3.1.6.1 Attributes

No additional attributes

3.1.6.2 Generalizations

None

3.1.6.3 Operations

No additional operations