

model

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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]
- **Redis** : Cache [1]
- **Logger** : Logger [1]

2.1.2 Generalizations

None

2.1.3 Operations

- Void **emit** ()
- Void **get** (property : String)
- null
- Void **on** ()

2.1.4 Associations

- **configuration** : Configuration [1]
- **logger** : Logger [1]
- **cache** : Cache [1]

2.2 Class Configuration

Wrapper class to get configuration from 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 one connection is created to the backend cache store.

2.3.1 Attributes

- **config** : Configuration [1]

Description: Loaded configuration object.

- **redis** : Redis [1]

Description: Connection to the Redis server used to store data that should be cached.

2.3.2 Generalizations

None

2.3.3 Operations

- Void **connect** ()

Description: Create a connection to the Redis server.

- Void **emit** ()

Description: Emit an event.

- Void **Cache** ()

Description: Default constructor for the class.

- Void **disconnect** ()

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

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

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

Description: Remove a string/member from a set indexed by key. When the string has been 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

2.5.1 Attributes

- **config** : Configuration [1]

- **log** : Log [1]

2.5.2 Generalizations

None

2.5.3 Operations

- Void **emit** ()

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

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

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

- Void **on** ()

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

2.11.1 Attributes

- **options** : String [*]

2.11.2 Generalizations

- **Base**

2.11.3 Operations

- Void **send** ()

- Void **send** ()

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