

**BCEPHAL-MS-006**

**B-CEPHAL**



**Security**

Moriset

www.moriset.com

Table des matières

[Table des tableaux ii](#_Toc60735996)

[Table des figures ii](#_Toc60735997)

[1. introduction 1](#_Toc60735998)

[1.1. But du document 1](#_Toc60735999)

[1.2. Cible 1](#_Toc60736000)

[1.3. Portée du projet 1](#_Toc60736001)

[1.4. Acronymes et abréviations 1](#_Toc60736002)

[1.5. Documents de référence 1](#_Toc60736003)

[2. Généralités et définitions 1](#_Toc60736004)

[3. Implémentation 2](#_Toc60736005)

[3.1. La classe Security 2](#_Toc60736006)

[3.2. La classe ProjectRepository 2](#_Toc60736007)

[3.3. La classe ProjectService 2](#_Toc60736008)

[3.4. La classe ProjectController 2](#_Toc60736009)

[3.4.1. La ressource « create » 3](#_Toc60736010)

[3.4.2. La ressource « duplicate » 3](#_Toc60736011)

# Table des tableaux

[Tableau 1: Acronymes et abréviations 1](#_Toc60736012)

[Tableau 2: Document de référence 1](#_Toc60736013)

# Table des figures

Aucune entrée de table d'illustration n'a été trouvée.

# introduction

## But du document

Ce document décrit le micro-service « Project ».

## Cible

Ce document s’adresse à l’équipe de développement de B-CEPHAL.

## Portée du projet

## Acronymes et abréviations

|  |  |
| --- | --- |
| Acronyme/Abréviation | Définition |
|  |  |
|  |  |
|  |  |

Tableau 1: Acronymes et abréviations

## Documents de référence

|  |  |
| --- | --- |
| Référence | Titre |
|  |  |
|  |  |
|  |  |

Tableau 2: Document de référence

# Généralités et définitions

B-CEPHAL est une application multi projet. Les données d’un projet sont indépendantes de celles des autres projets. Physiquement, un projet est constitué d’une base de données et d’un ensemble de fichiers (xslx, csv, txt, …).

Un projet est identifié par un numéro unique.

Un utilisateur peut :

* Créer un nouveau projet
* Renommer un projet existant
* Dupliquer un projet
* Exporter ou importer un projet
* Supprimer un projet

# Implémentation

## La classe Client

Package: *com.moriset.bcephal.security.domain*

Table: *BCP\_SEC\_CLIENT*

|  |  |  |  |
| --- | --- | --- | --- |
| **Client** | | | |
| **id** | Long | BIGINT | ID |
| **clientId** | String | VARCHAR (255) |  |
| **enabled** | Boolean | DEFAULT false |  |
| **code** | String | VARCHAR (100) | Unique identifier |
| **name** | String | VARCHAR (100) | The name of the project |
| **description** | String | VARCHAR (255) | The description |
| **secret** | String |  |  |
| **defaultLanguage** | String | VARCHAR (100) |  |
| **defaultClient** | Boolean | DEFAULT false |  |
| **nature** | String | VARCHAR (100) |  |
| **Type\_** | String | VARCHAR (100) |  |
| **status** | String | VARCHAR (50) |  |
| **maxUser** | Integer |  |  |
| **email** | String | VARCHAR (100) |  |
| **phone** | String | VARCHAR (100) |  |
| **street** | String | VARCHAR (100) |  |
| **postalCode** | String | VARCHAR (100) |  |
| **city** | String | VARCHAR (100) |  |
| **country** | String | VARCHAR (100) |  |
| **creationdate** | Date | TIMESTAMP |  |
| **modificationDate** | Date | TIMESTAMP |  |
| **toString()** | String |  | |

SQL:

CREATE TABLE bcp\_sec\_\_client (

id BIGINT not null,

clientId VARCHAR(255),

code VARCHAR(100),

name VARCHAR(100) not null,

description VARCHAR(255),

enabled Boolean DEFAULT FALSE,

secret TEXT,

defaultLanguage VARCHAR(100),

defaultClient Boolean DEFAULT FALSE,

nature VARCHAR(100),

type\_ VARCHAR(100),

status VARCHAR(50),

maxUser INTEGER,

email VARCHAR(100),

phone VARCHAR(100),

street VARCHAR(100),

postalCode VARCHAR(100),

city VARCHAR(100),

countey VARCHAR(100),

creationdate TIMESTAMP,

modificationDate TIMESTAMP,

PRIMARY KEY (id)

)

CREATE SEQUENCE client\_seq START WITH 2 INCREMENT BY 1;

## La classe ClientRepository

|  |  |
| --- | --- |
| Optional<Client> findByCode(String code) |  |
| List<Client> findAllByOrderByNameAsc() |  |
| List<Client> findAllByOrderByDefaultClientDescNameAsc() |  |

## La classe ClientService

|  |  |
| --- | --- |
| **ClientService** extends Service | |
| PrivilegeObserver getPrivilegeObserver(Long clientId, Long profileId, String username) |  |
| Client getById(Long id, Long clientId,String projectCode) |  |
| Client getById(Long id) |  |
| ClientEditorData getEditorData(EditorDataFilter filter, Long clientId,String projectCode, String sessionId, Locale locale) |  |
| Client findByName(String name) |  |
| Client getNewItem() |  |
| List<Nameable> getUserClients(String username) |  |
| List<Nameable> getUserProfiles(Long clientId, String username) |  |
| Client save(Client client, Locale locale) |  |
| **void** delete(ClientBase client) |  |
| ClientRepresentation saveClientRepresentation(Client client, Locale locale) |  |
| **void** saveClientRoles(ClientsResource clientsResource, String clientId) |  |
| List<RoleRepresentation> getProfils(String representationId) |  |
| ClientSecurityBrowserData getNewBrowserData(Client item) |  |
| Specification<Client> getBrowserDatasSpecification(BrowserDataFilter filter, Long clientId, Locale locale) |  |
| **void** build(ColumnFilter columnFilter) |  |
| SubPrivilegeObserver getSubPrivilegeObserver(String functionalityCode, Long objectId, Long clientId, Long profileId, String username, String projectCode) |  |

## La classe ClientController

### La ressource « privileges »

|  |  |  |
| --- | --- | --- |
| **getConnectedUserPrivileges** | | |
| Header | @GetMapping (“/privileges”) | getConnectedUserPrivileges |
|  | @ResponseStatus(HttpStatus.CREATED) |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestHeader(name=RequestParams.***BC\_CLIENT***, required = **false**) Long clientId |
| @RequestHeader(name=RequestParams.***BC\_PROFILE***, required = **false**) Long profileId, |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| JwtAuthenticationToken principal |
| Response | PrivilegeObserver |
|  |  |  |
|  | | |

### La ressource « sub-privileges/{funtionalityCode}/{objectId}»

|  |  |  |
| --- | --- | --- |
| **getConnectedUserSubPrivileges** | | |
| Header | @GetMapping("/sub-privileges/{functionalityCode}/{objectId}") | getConnectedUserSubPrivileges |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @PathVariable("functionalityCode") String functionalityCode |
| @PathVariable("objectId") Long objectId |
| @RequestHeader(name = RequestParams.***BC\_CLIENT***) Long clientId |
| @RequestHeader(name = RequestParams.***BC\_PROFILE***) Long profileId |
| @RequestHeader(name=RequestParams.***BC\_PROJECT***) String projectCode |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| JwtAuthenticationToken principal |
| Response | SubPrivilegeObserver |
|  |  |  |
|  | | |

### La ressource « save »

|  |  |  |
| --- | --- | --- |
| **save** | | |
| Header | @PostMapping(“/save”) | save |
|  | @Override |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestBody Client client |
| Long clientId |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| @RequestHeader(name = RequestParams.***BC\_PROJECT***, required = **false**) String projectCode |
| Response | Client |
|  |  |  |
|  | | |

### La ressource « connected-user-clients »

|  |  |  |
| --- | --- | --- |
| **getConnectedUserClients** | | |
| Header | @GetMapping("/connected-user-clients") | getConnectedUserClients |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| JwtAuthenticationToken principal |
| Response | List<Nameable> |
|  |  |  |
|  | | |

### La ressource « connected-user-profiles»

|  |  |  |
| --- | --- | --- |
| **getConnectedUserProfiles** | | |
| Header | @GetMapping("/connected-user-profiles") | getConnectedUserProfiles |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestHeader(RequestParams.***BC\_CLIENT***) Long client |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| JwtAuthenticationToken principal |
| Response | List<Nameable> |
|  |  |  |
|  | | |

### La ressource « search»

|  |  |  |
| --- | --- | --- |
| **search** | | |
| Header | @PostMapping("/search") | search |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestBody BrowserDataFilter filter |
| Long clientId |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| Response | BrowserDataPage<ClientSecurityBrowserData> |
|  |  |  |
|  | | |

### La ressource « editor-data »

|  |  |  |
| --- | --- | --- |
| **getEditorData** | | |
| Header | @PostMapping("/editor-data" | getEditorData |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestBody EditorDataFilter filter |
| Long clientId |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| JwtAuthenticationToken principal |
| @RequestHeader(name = RequestParams.***BC\_PROJECT***, required = **false**) String projectCode |
| Response | EditorData<Client> |
|  |  |  |
|  | | |

## La classe Profile

Package: *com.moriset.bcephal.security.domain*

Table: *BCP\_SEC\_PROFIL*

|  |  |  |  |
| --- | --- | --- | --- |
| **Profil** | | | |
| **id** | Long | BIGINT | ID |
| **code** | String | VARCHAR (100) | Unique identifier |
| **name** | String | VARCHAR (100) | The name of the project |
| **client** | String | VARCHAR (100) |  |
| **clientId** | Long | BIGINT |  |
| **type\_** | String | VARCHAR (100) |  |
| **description** | String | VARCHAR (50) |  |
| **creationDate** | Date | TIMESTAMP | The creation date and time |
| **modificationdate** | Date | TIMESTAMP |  |
| **toString()** | String |  | |

SQL:

CREATE TABLE bcp\_sec\_\_profil (

id BIGINT not null,

client VARCHAR(100),

code VARCHAR(100),

name VARCHAR(100) not null,

clientId BINGINT,

type\_ VARCHAR(100),

description TEXT,

creationdate TIMESTAMP,

modificationdate TIMESTAMP,

PRIMARY KEY (id)

)

CREATE SEQUENCE sec\_profil\_seq START WITH 1 INCREMENT BY 1;

## La classe ProfileRepository

|  |  |
| --- | --- |
| List<Profile> findByClient(String client) |  |
| List<Profile> findByClientIdOrderByNameAsc(Long clientId) |  |
| List<Profile> findByType(ProfileType type) |  |
| **void** deleteByClientId(Long clientId) |  |

## La classe ProfileService

|  |  |
| --- | --- |
| **ProfileService** extends Service | |
| Profile getById(Long id, Long clientId,String projectCode) |  |
| ProfileEditorData getEditorData(EditorDataFilter filter, Long clientId,String projectCode, String username, Locale locale) |  |
| Profile getBySubPrivilegeId(Long id, Long clientId,String functionalityCode,String projectCode) |  |
| ProfileEditorData getSubPrivilegeEditorData(EditorDataFilter filter, Long clientId, String username,String projectCode, Locale locale) |  |
| Profile findByName(String name) |  |
| Profile getNewItem() |  |
| List<Profile> findByClient(String client) |  |
| List<Profile> findByClientId(Long clientId) |  |
| List<Nameable> findByClientIdAndUserId(Long clientId, Long userId) |  |
| Profile save(Profile profile, Long clientId, Locale locale, String projectCode) |  |
| **void** delete(Profile profile) |  |
| GroupRepresentation saveGroupRepresentation(Profile profile) |  |
| ProfileBrowserData getNewBrowserData(Profile item) |  |
| Specification<Profile> getBrowserDatasSpecification(BrowserDataFilter filter, Long clientId, Locale locale) |  |
| **void** build(ColumnFilter columnFilter) |  |
| Specification<User> getUserSpecification(EditorDataFilter filter, Locale locale) |  |
| **void** deleteByClientId(Long clientId) |  |
| AccessRightEditorData getAccessRightEditorData(Long clientId, Long project) |  |
| **void** save(ListChangeHandler<ProfileProject> profiles, Long clientId, Long project, Locale locale) |  |
| ProfileDashboardEditorData getProfileDashboardEditorData(Long dashboardId, Locale locale) |  |
| **void** save(ListChangeHandler<ProfileDashboard> dashboards, Long dashboardId, Locale locale) |  |

## La classe ProfileController

### La ressource « access-right-editor-data/{project} »

|  |  |  |
| --- | --- | --- |
| **getAccessRightEditorData** | | |
| Header | @GetMapping("/access-right-editor-data/{project}") | getAccessRightEditorData |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestHeader(RequestParams.***BC\_CLIENT***) Long clientId |
| @PathVariable("project") Long project |
| @RequestHeader("Accept-Language") java.util.Locale locale |
| Response | AccessRightEditorData |
|  |  |  |
|  | | |

### La ressource « save-access-rights/{project} »

|  |  |  |
| --- | --- | --- |
| **save** | | |
| Header | @PostMapping("/save-access-rights/{project}") | save |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestBody ListChangeHandler<ProfileProject> profiles |
| @RequestHeader(RequestParams.***BC\_CLIENT***) Long clientId |
| @PathVariable("project") Long project |
| @RequestHeader("Accept-Language") java.util.Locale locale |
| Response | AccessRightEditorData |
|  |  |  |
|  | | |

### La ressource «sub-privilege-editor-data»

|  |  |  |
| --- | --- | --- |
| **getSubPrivilegeEditorData** | | |
| Header | @PostMapping("/sub-privilege-editor-data") | getSubPrivilegeEditorData |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestBody EditorDataFilter filter |
| @RequestHeader(RequestParams.***BC\_CLIENT***) Long clientId |
| @RequestHeader(RequestParams.***BC\_PROJECT***) String projectCode |
| @RequestHeader(RequestParams.***LANGUAGE***) java.util.Locale locale |
| JwtAuthenticationToken principal |
| Response | EditorData<Profile> |
|  |  |  |
|  | | |

### La ressource «profile-dashboard-editor-data/{dashboardId}»

|  |  |  |
| --- | --- | --- |
| **getProfileDashboardEditorData** | | |
| Header | @GetMapping("/profile-dashboard-editor-data/{dashboardId}") | getProfileDashboardEditorData |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @PathVariable("dashboardId") Long dashboardId |
| @RequestHeader("Accept-Language") java.util.Locale locale |
| Response | ProfileDashboardEditorData |
|  |  |  |
|  | | |

### La ressource «save-profile-dashboards/{dashboardId}»

|  |  |  |
| --- | --- | --- |
| **save** | | |
| Header | @PostMapping("/save-profile-dashboards/{dashboardId}") | save |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | @RequestBody ListChangeHandler<ProfileDashboard> dashboards |
| @PathVariable("profileId") Long dashboardId |
| @RequestHeader("Accept-Language") java.util.Locale locale |
| Response | boolean |
|  |  |  |
|  | | |

## La classe Rigth

Package: *com.moriset.bcephal.security.domain*

Table: *BCP\_SEC\_RIGTH*

|  |  |  |  |
| --- | --- | --- | --- |
| **Rigth** | | | |
| **id** | Long | BIGINT | ID |
| **funtionality** | Text |  |  |
| **level** | String | VARCHAR (25) |  |
| **userId** | Long | BIGINT |  |
| **profileId** | Long | BIGINT |  |
| **position** | Integer |  |  |
| **actionAsString** | Text |  |  |
| **toString()** | String |  | |

SQL:

CREATE TABLE bcp\_sec\_\_right(

id BIGINT not null,

functionality TEXT,

level VARCHAR(25),

userId BINGINT,

profileId BINGINT,

position INTEGER,

actionAsString TEXT,

PRIMARY KEY (id)

)

CREATE SEQUENCE sec\_right\_seq START WITH 1 INCREMENT BY 1;

## La classe RightRepository

|  |  |
| --- | --- |
| List<Right> findByProfileId(Long profileId) |  |
| List<Right> findByProfileIdAndObjectIdIsNull(Long profileId) |  |
| List<Right> findByProfileIdAndFunctionalityAndObjectIdAndProjectCode(Long profileId, String functionalityCode,Long objectId, String projectCode) |  |
| List<Right> findByProfileIdAndFunctionalityAndProjectCode(Long profileId, String functionalityCode,String projectCode) |  |
| List<Right> findByProfileIdAndProjectCode(@Param("profileId") Long profileId,@Param("projectCode")String projectCode) |  |
| **void** deleteByProfileId(Long profileId) |  |

## La classe User

Package: *com.moriset.bcephal.security.domain*

Table: *BCP\_SEC\_USER*

|  |  |  |  |
| --- | --- | --- | --- |
| **User** | | | |
| **id** | Long | BIGINT | ID |
| **clientId** | Long | BIGINT |  |
| **userId** | String | VARCHAR (255) |  |
| **client** | String | VARCHAR (100) |  |
| **type** | String | VARCHAR (25) |  |
| **username** | String | VARCHAR (100) |  |
| **name** | String | VARCHAR (100) |  |
| **enabled** | String | VARCHAR (100) |  |
| **emailVerified** | Boolean | DEFAULT false |  |
| **firstName** | String | VARCHAR (100) |  |
| **lastName** | String | VARCHAR (100) |  |
| **defaultLanguage** | String | VARCHAR (50) |  |
| **email** | String | VARCHAR (100) |  |
| **creationdate** | Date | TIMESTAMP |  |
| **modificationDate** | Date | TIMESTAMP |  |
| **toString()** | String |  | |

SQL:

CREATE TABLE bcp\_sec\_\_user (

id BIGINT not null,

userId VARCHAR(255),

client VARCHAR(100),

clientId BIGINT,

type VARCHAR(25),

username VARCHAR(100) not null,

name VARCHAR(100) not null,

enabled Boolean DEFAULT FALSE,

defaultLanguage VARCHAR(50),

emailVerified Boolean DEFAULT FALSE,

firstName VARCHAR(100),

lastName VARCHAR(100),

email VARCHAR(100),

creationdate TIMESTAMP,

modificationDate TIMESTAMP,

PRIMARY KEY (id)

)

CREATE SEQUENCE user\_seq START WITH 1 INCREMENT BY 1;

## La classe UserRepository

|  |  |
| --- | --- |
| Optional<User> findByUsernameIgnoreCase(String login) |  |
| Optional<User> findByUsernameAndClientId(String login, Long clientId) |  |
| **void** deleteByClientId(Long clientId) |  |
| List<User> findByClientId(Long clientId) |  |

## La classe UserService

|  |  |
| --- | --- |
| **UserService** extends Service | |
| UserRepository getRepository() |  |
| User getById(Long id, Long clientId,String projectCode) |  |
| UserEditorData getEditorData(EditorDataFilter filter, Long clientId,String projectCode, String username, Locale locale) |  |
| User findByName(String username) |  |
| User findByName(String username, Long clientId) |  |
| User getNewItem() |  |
| User save(User user, Long clientId, Locale locale, String projectCode) |  |
| **void** saveUserProfiles(ListChangeHandler<Nameable> profiles, Long userId, Long clientId) |  |
| **void** delete(User user) |  |
| UserRepresentation saveUserRepresentation(User user, Locale locale) |  |
| **void** validateUser(User user, UsersResource usersResource) |  |
| UserBrowserData getNewBrowserData(User user) |  |
| Specification<User> getBrowserDatasSpecification(BrowserDataFilter filter, Long clientId, Locale locale) |  |
| **void** build(ColumnFilter columnFilter) |  |
| List<UserRepresentation> getUsers() |  |
| User tryToBuildAdminUser(String username) |  |
| UserRepresentation getUserRepresentation(String username) |  |
| **void** deleteByClientId(Long clientId) |  |

## La classe UserController

### La ressource «current»

|  |  |  |
| --- | --- | --- |
| **getCurrentUser** | | |
| Header | @PostMapping("/current") | getCurrentUser |
|  | @checkRole |
|  | @AdminRole |
|  | @ResponseBody |
| Exceptions |  |
|  |
|  |
| Parameters | Authentication auth |
| Response | String |
|  |  |  |
|  | | |

### La ressource «connected-user-info»

|  |  |  |
| --- | --- | --- |
| **getConnectedUserInfo** | | |
| Header | @GetMapping(value="/connected-user-info") | getConnectedUserInfo |
|  |  |
|  |  |
|  |  |
| Exceptions |  |
|  |
|  |
| Parameters | JwtAuthenticationToken principal |
| Response | UserInfo |
|  |  |  |
|  | | |