Brand Repository

Functional Specifications

Release 1.0

1   Content

2   Document Information

2.1   Versions

Version	Author	Modifications
2013.11.13 #2	P. Plagnol	Creation of the document
2013.11.13 # 3	P. Plagnol	Modifications in blue
2013.11.14 # 1	P. Plagnol	Modifications in blue
2013.11.20 #1	P. Plagnol	Modifications in blue
2013.11.26 #1	P. Plagnol	Modifications in blue
2013.11.27 #1	P. Plagnol, Nicolas Pieuchot	Modifications in blue
2013.11.27 #2	P. Plagnol, Nicolas Pieuchot	Modifications in blue
2013.11.29 #1	P. Plagnol	Modifications in blue
2013.12.01 #1	P. Plagnol	Modifications in blue
2013.12.09 #1	P. Plagnol	Issue #53
2013.12.12 #1	P.Plagnol	Issue #56 :Delete OWNER_WIKI_EN
2013.12.15 #1	P.Plagnol	Issue #58 :Delete Owner (postponed)
2013.12.18 #1	P.Plagnol	Issue #64 : proposal fields
2013.12.18 #2	P.Plagnol	Issue #64 : correction following Nicolas comment

3 Data

3.1 Definitions

BSIN: The **B**rand **S**tandard **I**dentification **N**umber is a 6-character alphanumeric unique (0 and O excluded) identifier assigned by OKFN. Each brand stored on this repository is given a unique BSIN.

Type of brand: Brand owned by manufacturer and retailers are of 2 different types.

Group of brand: A group of brand is used when the number of brand is too important and that the number of product is small (Wine, Cheese,…) or to gather all brands with the same features. This concept is very close of classification which is at the product level. Example: a brand can have cosmetics products and cleaning products. This concept will not be implemented in the first release of the brand repository.

3.2 Perimeter

The repository excludes brands assigned to books and magazine.

3.3 Schema
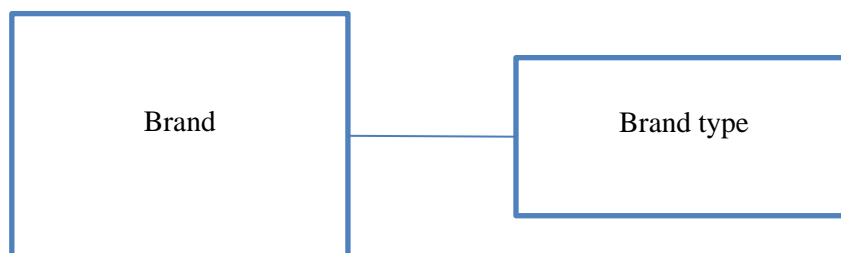
Brand — Brand type

3.4 Data Model

3.4.1 BRAND table

Field	PK/FK	Type	Null	Description
BSIN	PK	char(6)	N	BSIN code
BRAND_NM		varchar(255)	N	Name of the brand
BRAND_TYPE_CD	FK	int	N	Type of the brand
BRAND_LINK		varchar(255)	Y	URL of the brand
FLAG_DELETE		tinyint(1)	N	Deletion flag 0: not deleted, 1: deleted
LAST_MODIFIED		datetime	N	Last modification date
COMMENTS		varchar(255)	Y	
BRAND_LOGO		varchar(100)	N	Relative path of the picture (ex: brand/logo/1J3K5K.jpg)

3.4.2 BRAND_TYPE table

Remark: the type can't be a group of brand, the group of brand is a concept which must be clearly separated of BSIN.

Field	PK/FK	Type	Null	Description
BRAND_TYPE_CD	PK	int	N	Type code
BRAND_TYPE_NM		varchar(255)	N	1: Manufacturer-brand 2: Retailer Brand

3.4.3 BRAND_PROPOSAL table

Field	PK/FK	Type	Null	Description
PROPOSAL_CD	PK	int	N	Code of the proposal
BRAND_NM		varchar(255)	N	Name of the brand
BRAND_TYPE_CD		int	N	Type of brand (1 or 2 allowed)
BRAND_LINK		varchar(255)	Y	Brand website
BRAND_LOGO		varchar(255)	Y	Relative path of uploaded picture
INSERT_DATE		datetime	N	Date of proposal
COMMENT		Text	Y	Comment
USER_ID		int	N	User ID of the contributor, the email address is stored in the auth user table
STATUS		Int	N	null : "proposed" false : "rejected" true : "validated"

3.4.1 BRAND_PROPOSAL_REVIEW table

Field	PK/FK	Type	Null	Description
PROPOSAL_CD	PK	int	N	Code of the proposal
USER_ID	PK	Int	N	Moderator
REVIEW_DT		Datetime	N	Date of review

COMMENT	text	Y	
VALID	Boolean	N	True : "valid"
			False : "invalid"

4 General Functionalities

4.1 Users

4.1.1 Type of users

3 types of user are defined:

- **Visitor**: they access only to the public part of the website and can propose to add a brand using a form
- **Moderator** : they access to the admin part of the website and manage the content of the repository but can't achieve structural actions (see the listing of actions allowed)
- **Administrator**: they can access and achieve all actions according to the application functionalities and constraints

4.1.2 Authorizations

TBD = To Be Discussed

Actions	Visitor	Moderator	Administrator
Access to the public interface	Y	Y	Y
Propose a new brand	Y	Y	Y
Access to the admin interface	N	Y	Y
Manage types of brands	N	N	Y
Validate a brand proposal	N	Y	Y
Modify the name of a brand	N	N	Y
Manage brands	N	Y	Y
Manage authorizations	N	N	Y
Delete a brand	N	N	Y

4.2 Log

Each change applied on the database table must be stored in a log table which indicates:

- the user who did the change
- the date and time
- Actions (table, fields,…)

All these mechanism are managed by Django.

5 Admin Functionalities

5.1 Authorizations

5.1.1 Groups

Groups of user can be added, modified, deleted (standard functionalities of Django)

5.1.2 Users

Users can be added by providing the following information:

- Username
- Email address
- First Name
- Last Name
- Authorization

The user management follows the rules of Django.

5.2 Brand management

5.2.1.1 Listing of brands

Brands are displayed in a table with the following elements:

- BSIN
- Brand name
- Brand logo
- Delete button

The delete button displays a pop-up to ask confirmation.

5.2.2 Validate a brand

When a visitor submits a new brand, a control must be done to check that the brand doesn't exist and that all elements are corrects.

Cases:

- The brand already exists : a mail is sent to inform the visitor and provide the BSIN
- The brand doesn't exist but is not correct : a mail is sent to ask more precisions

It's critical to check that the brand doesn't already exist: a tool helping to search must be provided (to be discussed).

The moderator in charge of the check must be able to modify type and url of the brand and to load another picture.

When brand is validated, the status changes in the visitor proposal table and a BSIN is created in brand table. A mail is sent to the visitor to announce the creation of BSIN.

A proposal is integrated after the review of 2 moderators.

The BRAND_PROPOSAL_REVIEW must contain the review of these 2 moderators (included the date).

5.2.3   Add a brand

5.2.3.1   Interface

A text field is used to get the brand name.

 1 type of brand is selected among all the types stored in brand_type.

A tool propose to upload the logo and automatically put him to a format of 150 * 150 pixel

5.2.3.2   Controls

These fields are required: Brand name and brand type.

Remark: The brand must be unique so it's very important to ensure that the brand is not already used. This could be auto

5.2.3.3   Functional rules

When a brand is added in the repository, The BSIN is randomly generated. The BSIN is composed of 6 alpha numeric characters in **upper case** and **excluding 'O' and '0'** (zero) to avoid confusion.

The picture uploaded is resized to 150px*150px and stored locally in jpg format (the storage on amazon will be done in a future release)

5.2.4   Modify a brand

BSIN is a master data and is stable. Name of a brand is linked to the BSIN and so the field BRAND_NM can't change easily. This critical action must be check by several users before to be done.

- If a brand is not spelled correctly ("Coca cola" instead of "Coca-Cola"), it's possible to change the field
- If a brand change of name, a new BSIN code must be created (with in comments the link between the 2 BSIN) the change of name is forbidden.
- In all other cases, it's not possible to change the brand name

In the first release, only administrator can change the name of a brand because the link BSIN – Name is critical.

All the other elements can be modified.

5.2.5 Delete a brand

When a brand is deleted, clients of the repository must be informed of it and must have the reason and the potential BSIN replacing the one deleted.

Only administrator can delete a brand.

So, the deletion needs to be logic:

In the Brand table:

- the field *flag_deleted* becomes true
- the explanation is required in the *comment* field
- the date of deletion is be indicated in the field *Last_modified*

5.3 Brand Type management

There's few elements to manage (add, edit, delete) in a standard way.

The most important thing is to ensure that a type can't be deleted if used by at least one brand.

6 Public Functionalities

6.1 Home page

The home page display very clearly:

- A browser to give to the user an overview of the brand repository
- A link to collaborate entering a brand which doesn't exist
- List of the 10 (or 20) last BSIN added

6.2 Menu

The menu contains the following links:

- Home
- Brand list
- Add a brand
- Download and API

6.3 Form to add a brand

A form is displayed to let visitors propose a brand not existing:

- The name (required)

-   The type of brand (only 1 and 2)
-   The URL (required)
-   A logo to upload
-   An email address (with confirmation)
-   A comment text area

The email address is used to inform the visitor of the creation of a BSIN for this brand

A captcha can be added to avoid attacks

6.4   Brand List

The brand list displays the following information:

-   BSIN
-   Name
-   Logo
-   Website link

A search engine is configured to search on the name of the BSIN.

BSIN, Name and Logo are clickable and display the brand page containing:

-   BSIN
-   Name
-   Logo
-   Type of brand
-   Website link

To be discussed in an issue: the mode of navigation on the brands