



Module Demo
Configuration
Version 4.0





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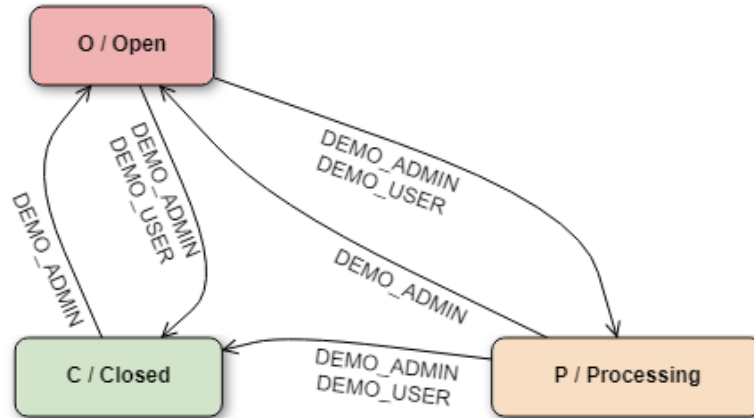
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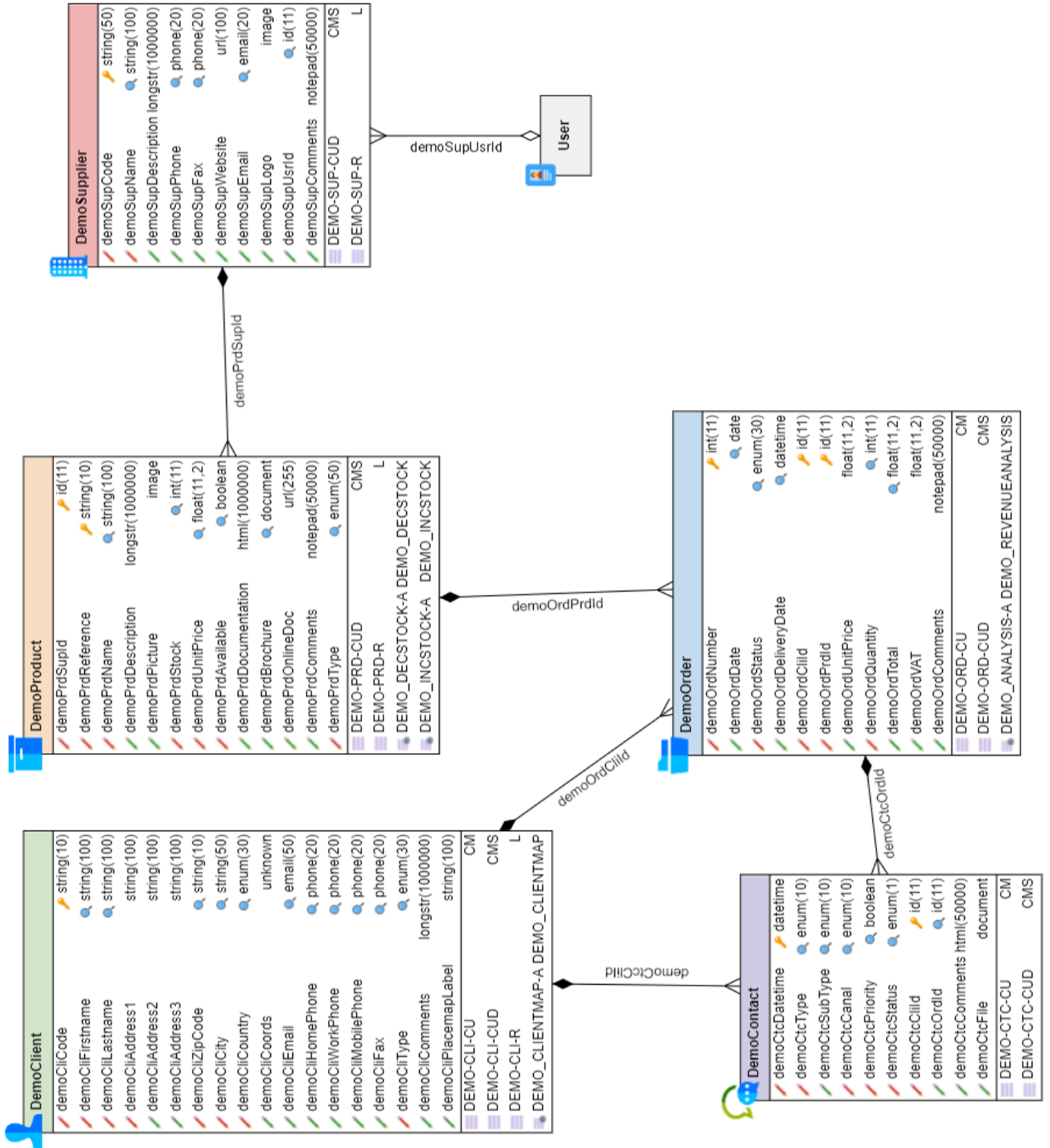
1. Modeler

1.1. ModelState: DemoContactStates



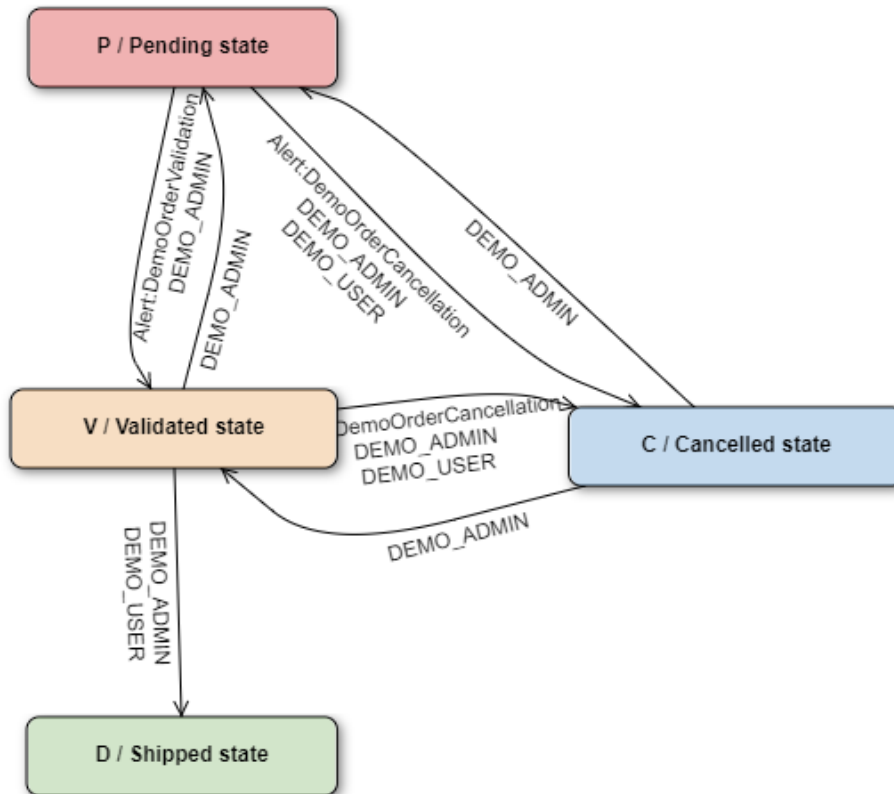


1.2. ModelObject: DemoObjects



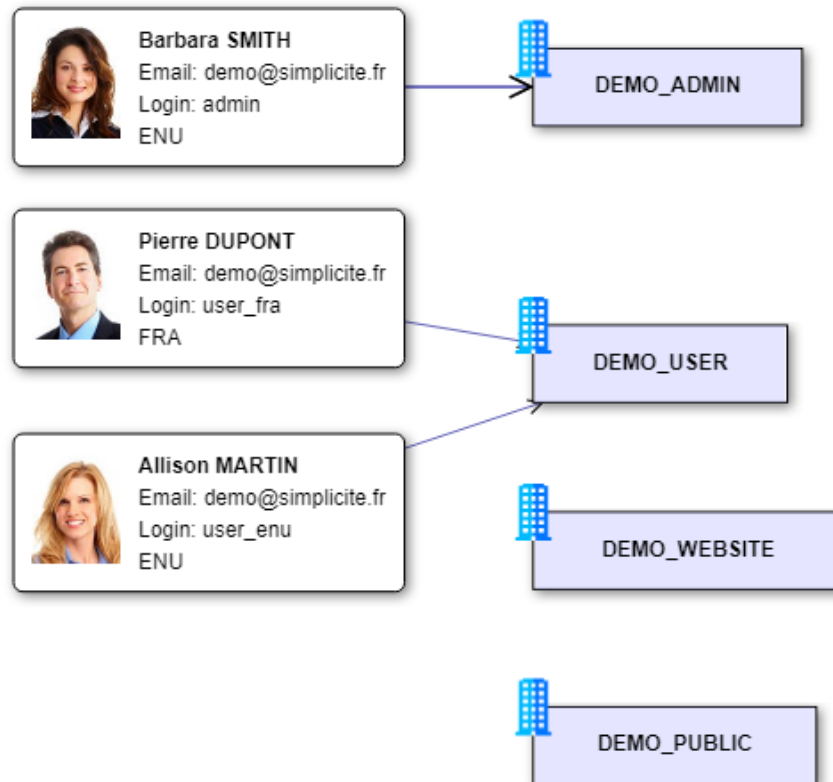


1.3. ModelState: DemoOrderStates



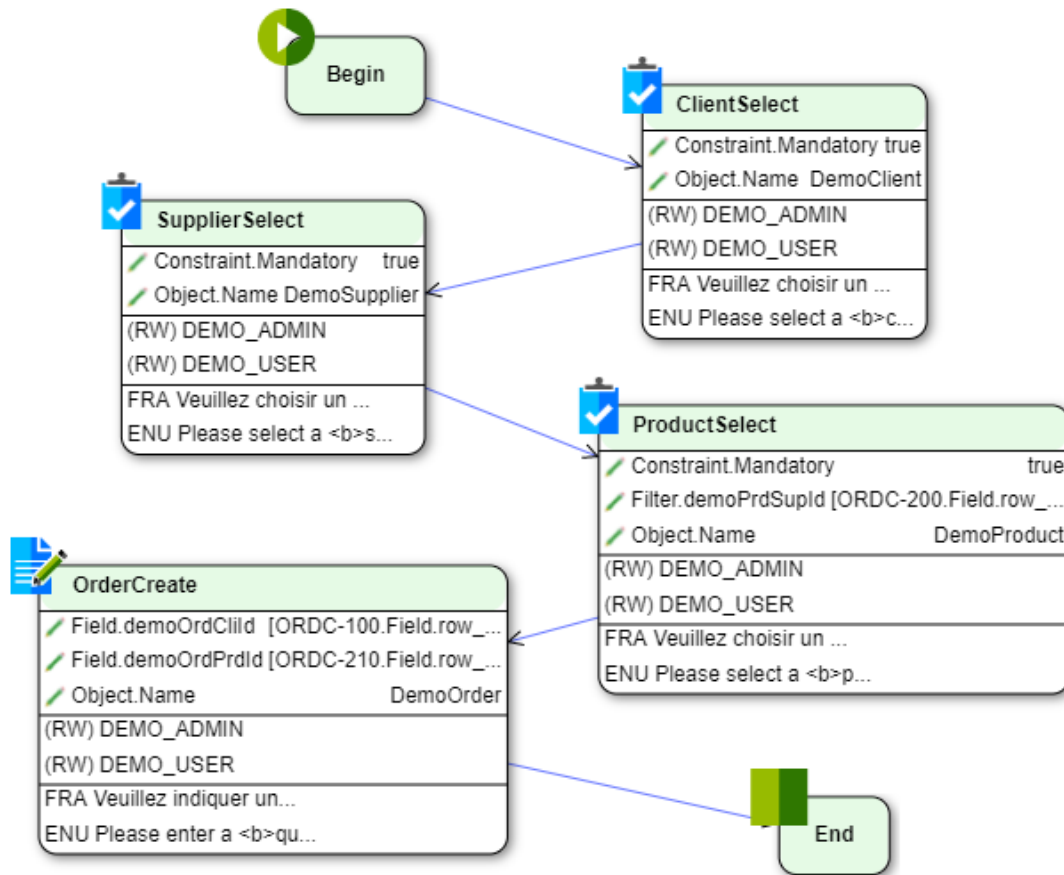


1.4. ModelUser: DemoUsers





1.5. ModelProcess: DemoWorkflow





2. Module

2.1. Business object: DemoClient

Code	DemoClient
Table	demo_client
Source code	DemoClient.java
Description	The **client** business object corresponds to the customer who places order. His address is geolocalized using GoogleMaps®; API.
Export order	3

Search mode on list	Hidden	Timestamp	Optimistic
Default panel	DemoOrder;demoOrdClild	Distinct	No
Template Name	DemoClient	Indexable	Yes
List pagination	Yes	Allows to group by	No
Preset search	Yes	Copy enabled	Yes
Select rows	Yes	Data export	Yes
Enable search in list	Yes	Bulk update	Yes
Editable list	Create + Update + Delete	Bulk delete	Yes
Use form	Yes	Printable	Yes
Icon code	user	Follow links	Yes
Reference count	Yes	Mergeable	Yes
Tree list	No	Social post	Popup
View mode	Vertical tabs	Tray menu	Yes
		Dashboard menu	Yes

2.1.1. Object translation

Target Code	Lan	Translation	Module Name
DemoClient	ENU	Customer Customers	Demo
DemoClient	FRA	Client Clients	Demo

2.1.2. Function

Code	Object Code	Func t	Action Name	View Name
DEMO-CLI-CU	DemoClient	C M		
DEMO-CLI-CUD	DemoClient	C M S		
DEMO-CLI-R	DemoClient	L		
DEMO_CLIENTMAP-A	DemoClient	A	DEMO_CLIENTMAP	



2.1.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
demoCliCode	ENU : Code FRA : Code	100	1	DemoClient-1		
demoCliFirstname	ENU : First name FRA : Prénom	110		DemoClient-1		
demoCliLastname	ENU : Last name FRA : Nom	120		DemoClient-1		
demoCliAddress1	ENU : Address 1 FRA : Adresse 1	200		DemoClient-2		
demoCliAddress2	ENU : Address 2 FRA : Adresse 2	210		DemoClient-2		
demoCliAddress3	ENU : Address 3 FRA : Adresse 3	220		DemoClient-2		
demoCliZipCode	ENU : Zip code FRA : Code postal	230		DemoClient-2		
demoCliCity	ENU : City FRA : Ville	240		DemoClient-2		
demoCliCountry	ENU : Country FRA : Pays	250		DemoClient-2		
demoCliCoords	ENU : Coordinates FRA : Coordonnées	260		DemoClient-2		
demoCliEmail	ENU : E-mail FRA : E-mail	300		DemoClient-3		
demoCliHomePhone	ENU : Home phone number FRA : Téléphone domicile	310		DemoClient-3		
demoCliWorkPhone	ENU : Work phone number FRA : Téléphone travail	320		DemoClient-3		
demoCliMobilePhone	ENU : Mobile phone number FRA : Téléphone mobile	330		DemoClient-3		
demoCliFax	ENU : Fax number FRA : Fax	340		DemoClient-3		
demoCliType	ENU : Type FRA : Type	400		DemoClient-4		
demoCliComments	ENU : Comments FRA : Commentaires	410		DemoClient-4		
demoCliPlacemapLabel	ENU : Placemap label FRA : Libellé carte	420		DemoClient-4		

2.1.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoCliCode	X	X	X	X			CHAR(10)	cli_code	Yes	
demoCliFirstname	X	X		X			CHAR(100)	cli_firstname	Yes	
demoCliLastname	X	X		X			CHAR(100)	cli_lastname	Yes	
demoCliAddress1	X						CHAR(100)	cli_address1	Form	
demoCliAddress2							CHAR(100)	cli_address2	Form	
demoCliAddress3							CHAR(100)	cli_address3	Form	
demoCliZipCode	X	X		X			CHAR(10)	cli_zipcode	Yes	
demoCliCity	X	X		X			CHAR(50)	cli_city	Yes	
demoCliCountry	X	X		X			ENUM(7) DEMO_COUNTRY	cli_country	Yes	



Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoCliCoords					X	X	GEOCOORDS	cli_coords	Form	
demoCliEmail		X		X			EMAIL(50)	cli_email	Yes	
demoCliHomePhone				X			PHONE(20)	cli_homephone	Form	
demoCliWorkPhone				X			PHONE(20)	cli_workphone	Form	
demoCliMobilePhone				X			PHONE(20)	cli_mobilephone	Form	
demoCliFax				X			PHONE(20)	cli_fax	Form	
demoCliType	X	X		X			ENUM(7) DEMO_CLI_TYPE	cli_type	Yes	T1
demoCliComments							TEXT(1000000)	cli_comments	Form	
demoCliPlacemapLabel		X			X	X	CHAR(100)		Yes	

2.1.5. Translated list value

DEMO_COUNTRY

Code	Language	Value	Order
FR	ENU	France	1
UK	ENU	United Kingdom	2
SP	ENU	Spain	3
FR	FRA	France	1
UK	FRA	Royaume Uni	2
SP	FRA	Espagne	3

DEMO_CLI_TYPE

Code	Language	Value	Order
T1	ENU	External	1
T2	ENU	Internal	2
T3	ENU	Partner	3
T1	FRA	Externe	1
T2	FRA	Interne	2
T3	FRA	Partenaire	3

2.1.6. ObjectDB extends

Java method	Parameters
String preSave	
String getUserKeyLabel	String[]

2.1.7. Object script

Code DemoClient
<pre>package com.simplicite.objects.Demo; import com.simplicite.util.AppLog; import com.simplicite.util.ObjectDB; import com.simplicite.util.ObjectField; import com.simplicite.util.tools.GMapTool; import com.simplicite.util.tools.GMapTool.Location;</pre>



Code DemoClient

```
import com.simplicite.util.tools.GMapTool.Location;

/**
 * Customer business object
 */
public class DemoClient extends ObjectDB {
    private static final long serialVersionUID = 1L;

    /** Hook override: geolocate from address fields */
    @Override
    public String preSave() {
        if (!isBatchInstance()) try {
            ObjectField coords = getField("demoCliCoords");

            ObjectField a1 = getField("demoCliAddress1");
            ObjectField a2 = getField("demoCliAddress2");
            ObjectField a3 = getField("demoCliAddress3");
            ObjectField zc = getField("demoCliZipCode");
            ObjectField ci = getField("demoCliCity");
            ObjectField co = getField("demoCliCountry");

            if (coords.isEmpty() || a1.hasChanged() || a2.hasChanged() || a3.hasChanged() || zc.hasChanged() || ci.hasChanged() ||
co.hasChanged()) {
                String a = a1.getValue() + (a2.isEmpty() ? "" : ", " + a2.getValue()) + (a3.isEmpty() ? "" : ", " + a3.getValue()) + ", "
zc.getValue() + ", " + ci.getValue() + ", " + co.getValue();
                AppLog.info(getClass(), "preSave", "Try to geocode " + a, getGrant());
                Location c = new GMapTool(getGrant()).geocodeOne(a);
                AppLog.info(getClass(), "preSave", "Coordinates = " + c, getGrant());
                coords.setValue(c==null ? "" : c.toString());
            }
        } catch (Exception e) {
            AppLog.error(getClass(), "preSave", null, e, getGrant());
        }
        return super.preSave();
    }

    /** Hook override: custom short label */
    @Override
    public String getUserKeyLabel(String[] row) {
        return row!=null
            ? row[getFieldIndex("demoCliFirstname")] + " " + row[getFieldIndex("demoCliLastname")]
            : getFieldValue("demoCliFirstname") + " " + getFieldValue("demoCliLastname");
    }
}
```



2.2. Business object: DemoContact

Code	DemoContact
Table	demo_contact
Source code	DemoContact.java
Description	The **contact** object holds the interactions with the clients. A contact can be linked or not a an order of the selceted client (when linked to an order the `demoCtcOrdld` field is set).

Search mode on list	Hidden	Timestamp	Optimistic
Default panel	DemoContactHistoric;row_ref_id	Distinct	No
Template Name	DemoContact	Indexable	Yes
List pagination	Yes	Allows to group by	No
Preset search	Yes	Copy enabled	Yes
Select rows	Yes	Data export	Yes
Enable search in list	Yes	Bulk update	Yes
Editable list	Create on form Create on list (single) Editable list	Bulk delete	Yes
Use form	Yes	Data history	History table
Icon code	chat	Printable	Yes
Reference count	No	Follow links	Yes
Tree list	No	Mergeable	No
View mode	Vertical tabs	Social post	Popup
		Tray menu	Yes
		Dashboard menu	Yes

2.2.1. Object translation

Target Code	Lan	Translation	Module Name
DemoContact	ENU	Contact Contacts	Demo
DemoContact	FRA	Contact Contacts	Demo

2.2.2. Function

Code	Object Code	Func t	Action Name	View Name
DEMO-CTC-CU	DemoContact	C M		
DEMO-CTC-CUD	DemoContact	C M S		

2.2.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
demoCtcDatetime	ENU : Date FRA : Date	100	-1	DemoContact-1		
demoCtcType	ENU : Type	110		DemoContact-1		



Name	Trans.	Order	Sort	Zone	Object	Reference
	FRA : Type					
demoCtcSubType	ENU : Subtype FRA : Sous-type	120		DemoContact-1		
demoCtcCanal	ENU : Canal FRA : Canal	130		DemoContact-1		
demoCtcPriority	ENU : Priority FRA : Priorité	140		DemoContact-1		
demoCtcStatus	ENU : Status FRA : Etat	190		DemoContact-1		
demoCtcCliId	ENU : Customer FRA : Client	200		DemoContact-2	DemoClient	Cascade
demoCliCode	ENU : Code FRA : Code	210	2	DemoContact-2	DemoClient	demoCtcCliId
demoCliFirstname	ENU : First name FRA : Prénom	220		DemoContact-2	DemoClient	demoCtcCliId
demoCliLastname	ENU : Last name FRA : Nom	230		DemoContact-2	DemoClient	demoCtcCliId
demoCliEmail	ENU : E-mail FRA : E-mail	240		DemoContact-2	DemoClient	demoCtcCliId
demoCliHomePhone	ENU : Home phone number FRA : Téléphone domicile	250		DemoContact-2	DemoClient	demoCtcCliId
demoCliWorkPhone	ENU : Work phone number FRA : Téléphone travail	260		DemoContact-2	DemoClient	demoCtcCliId
demoCliMobilePhone	ENU : Mobile phone number FRA : Téléphone mobile	270		DemoContact-2	DemoClient	demoCtcCliId
demoCliFax	ENU : Fax number FRA : Fax	280		DemoContact-2	DemoClient	demoCtcCliId
demoCtcOrdId	ENU : Order FRA : Commande	300		DemoContact-3	DemoOrder	Cascade
demoOrdNumber	ENU : Number FRA : Numéro	310		DemoContact-3	DemoOrder	demoCtcOrdId
demoOrdDate	ENU : Date FRA : Date	320		DemoContact-3	DemoOrder	demoCtcOrdId
demoOrdStatus	ENU : Status FRA : Etat	330		DemoContact-3	DemoOrder	demoCtcOrdId
demoOrdCliId	ENU : Customer FRA : Client	340		DemoContact-3	DemoOrder	demoCtcOrdId
demoOrdPrdId	ENU : Product FRA : Produit	350		DemoContact-3	DemoOrder	demoCtcOrdId
demoPrdSupId	ENU : Supplier FRA : Fournisseur	360		DemoContact-3	DemoProduct	demoOrdPrdId
demoSupUsrId	ENU : Responsible user FRA : Utilisateur responsable	365		DemoContact-3	DemoSupplier	demoPrdSupId
demoPrdReference	ENU : Reference FRA : Référence	370		DemoContact-3	DemoProduct	demoOrdPrdId
demoPrdName	ENU : Name FRA : Nom	380		DemoContact-3	DemoProduct	demoOrdPrdId
demoOrdQuantity	ENU : Quantity FRA : Quantité	390		DemoContact-3	DemoOrder	demoCtcOrdId
demoCtcComments	ENU : Message FRA : Message	400		DemoContact-4		
demoCtcFile	ENU : Files FRA : Fichiers	410		DemoContact-4		

2.2.4. Field



Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoCtcDatetime	X		X				DATETIME	ctc_datetime	Yes	[DATETIME]
demoCtcType	X			X			ENUM(7) DEMO_CTC_TYPE	ctc_type	Yes	
demoCtcSubType				X			ENUM(7) DEMO_CTC_SUBTYPE	ctc_subtype	Yes	
demoCtcCanal	X			X			ENUM(7) DEMO_CTC_CANAL	ctc_canal	Yes	PHONE
demoCtcPriority	X	X		X			BOOLEAN	ctc_priority	Yes	0
demoCtcStatus	X			X			ENUM(7) DEMO_CTC_STATUS	ctc_status	Yes	O
demoCtcCliId	X	X	X	X			ID	ctc_cli_id	Yes	
demoCliCode	X	X	X	X			CHAR(10)	cli_code	Yes	
demoCliFirstname	X	X		X			CHAR(100)	cli_firstname	Yes	
demoCliLastname	X	X		X			CHAR(100)	cli_lastname	Yes	
demoCliEmail		X		X			EMAIL(50)	cli_email	Yes	
demoCliHomePhone				X			PHONE(20)	cli_homephone	Form	
demoCliWorkPhone				X			PHONE(20)	cli_workphone	Form	
demoCliMobilePhone				X			PHONE(20)	cli_mobilephone	Form	
demoCliFax				X			PHONE(20)	cli_fax	Form	
demoCtcOrdId		X		X			ID	ctc_ord_id	Yes	
demoOrdNumber	X		X	X			INT(11)	ord_number	Yes	[ROWID]
demoOrdDate							DATE	ord_date	Yes	[DATE]
demoOrdStatus	X						ENUM(7) DEMO_ORD_STATUS	ord_status	Yes	P
demoOrdCliId	X	X	X	X			ID	ord_cli_id	Yes	
demoOrdPrdId	X	X	X	X			ID	ord_prd_id	Yes	
demoPrdSupId	X	X	X	X			ID	prd_sup_id	Yes	
demoSupUsrId				X			ID	sup_usr_id	Yes	[USERID]
demoPrdReference	X	X	X	X			CHAR(10)	prd_code	Yes	
demoPrdName	X	X		X			CHAR(100)	prd_name	Yes	
demoOrdQuantity	X	X					INT(11)	ord_quantity	Yes	1
demoCtcComments							NOTEPAD(50000)	ctc_comments	Form	
demoCtcFile							DOCUMENT	ctc_file	Form	

2.2.5. Translated list value

DEMO_CTC_TYPE

Code	Language	Value	Order
INF	ENU	Information	1
REQ	ENU	Request	2
CMP	ENU	Complaint	3
OTH	ENU	Other	4
INF	FRA	Information	1
REQ	FRA	Demande	2



Code	Language	Value	Order
CMP	FRA	Réclamation	3
OTH	FRA	Autre	4

DEMO_CTC_SUBTYPE

Code	Language	Value	Order
DEFAULT	ENU	Default	1
DEFAULT	FRA	Par défaut	1

DEMO_CTC_CANAL

Code	Language	Value	Order
PHONE	ENU	Phone	1
EMAIL	ENU	E-mail	2
CHAT	ENU	Chat	3
WEB	ENU	Web site	4
PHONE	FRA	Téléphone	1
EMAIL	FRA	E-mail	2
CHAT	FRA	Chat	3
WEB	FRA	Site web	4

DEMO_CTC_STATUS

Code	Language	Value	Order
O	ENU	Open	1
P	ENU	Processing	2
C	ENU	Closed	2
O	FRA	Ouvert	1
C	FRA	Closed	2
P	FRA	En traitement	2

DEMO_ORD_STATUS

Code	Language	Value	Order
P	ENU	Pending	1
V	ENU	Validated	2
D	ENU	Shipped	3
C	ENU	Cancelled	4
P	FRA	En attente	1
V	FRA	Validée	2
D	FRA	Envoyée	3
C	FRA	Annulée	4

2.2.6. ObjectDB extends

Java method	Parameters
Object printExcel	PrintTemplate
boolean canReference	String, String



2.2.7. Object script

Code DemoContact

```
package com.simplicite.objects.Demo;

import java.util.ArrayList;
import java.util.List;

import com.simplicite.util.AppLog;
import com.simplicite.util.ObjectDB;
import com.simplicite.util.PrintTemplate;
import com.simplicite.util.Tool;
import com.simplicite.util.tools.ExcelPOITool;
import com.simplicite.util.tools.ExcelPOITool.ExcelCell;
import com.simplicite.util.tools.ExcelPOITool.ExcelRow;
import com.simplicite.util.tools.ExcelPOITool.ExcelSheet;

/**
 * Contact business object
 */
@SuppressWarnings("deprecation")
public class DemoContact extends ObjectDB {
    private static final long serialVersionUID = 1L;

    /** Publication: Microsoft Excel(R) contact sheet */
    public Object printExcel(PrintTemplate pt) {
        try {
            // Build rows from selected IDs or from current filters
            List<String[]>rows = new ArrayList<>();
            List<String> ids = getSelectedIds();
            if (!Tool.isEmpty(ids)) {
                for (int k = 0; k < ids.size(); k++)
                    if (select(ids.get(k)))
                        rows.add(getValues());
            } else {
                rows = search(false);
            }

            /* Old deprecated version (kept for backward compatibility */
            ExcelPOITool xls = new ExcelPOITool(true); // true = XLSX format
            ExcelSheet sh = xls.newSheet("Contacts");
            for (int i = 0; i < rows.size(); i++) {
                ExcelRow r = xls.newRow(i);
                String[] row = rows.get(i);
                for (int j = 0; j < row.length; j++) {
                    ExcelCell c = xls.newCell(j, row[j]);
                    r.add(c);
                }
                sh.add(r);
            }
            xls.add(sh);

            /* TODO: new version
            ExcelTool xls = new ExcelTool(true); // true = XLSX format
            Sheet sheet = xls.addSheet("Contacts");
            for (int i = 0; i < rows.size(); i++) {
                ExcelRow r = new ExcelRow(i);
                String[] row = rows.get(i);
                for (int j = 0; j < row.length; j++) {
                    r.add(xls.newCell(j, row[j]));
                }
                xls.addRow(sheet, r);
            }*/

            return xls.generateToByteArray();
        } catch (Exception e) {
            AppLog.error(getClass(), "printExcel", "Unable to publish", e, getGrant());
            return null;
        }
    }

    /** Hook override: hide history records on tree view */
    @Override
    public boolean canReference(String objName, String fkFieldName) {
        return !isTreeviewInstance() || "DemoContactHistoric".equals(objName);
    }
}
```



2.3. Business object: DemoContactHistoric

Code	DemoContactHistoric
Table	demo_contact_hist
Description	**Contact** object history, tracks changes on: - Status - Type and/or subtype - Comments
Export order	-1

Search mode on list	Top columns
Template Name	Base
List pagination	Yes
Preset search	No
Select rows	No
Enable search in list	Yes
Use form	No
Reference count	No
Tree list	No
View mode	Vertical tabs

Timestamp	Optimistic
Distinct	No
Indexable	No
Allows to group by	No
Copy enabled	No
Data export	No
Bulk update	No
Bulk delete	No
Printable	Yes
Follow links	Yes
Mergeable	No
Social post	Popup
Tray menu	No
Dashboard menu	No

2.3.1. Object translation

Target Code	Lan	Translation	Module Name
DemoContactHistoric	ENU	Contact (hist.)	Demo
DemoContactHistoric	FRA	Contact (hist.)	Demo

2.3.2. Function

Code	Object Code	Func t	Action Name	View Name
DemoContact-H	DemoContactHistoric	L		

2.3.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
row_ref_id	ENU : Référence FRA : Référence	1	1		DemoContact	Cascade
row_idx	ENU : Version FRA : Version	2	-2			
created_by_hist	ENU : User FRA : Utilisateur	3				
created_dt_hist	ENU : Date FRA : Date	4				



Name	Trans.	Order	Sort	Zone	Object	Reference
demoCtcStatus	ENU : Status FRA : Etat	100				
demoCtcType	ENU : Type FRA : Type	110				
demoCtcSubType	ENU : Subtype FRA : Sous-type	120				
demoCtcComments	ENU : Message FRA : Message	130				

2.3.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
row_ref_id	X		X	X			ID	row_ref_id	Yes	
row_idx	X	X	X	X			INT(11)	row_idx	Yes	
created_by_hist	X		X				CHAR(100)	created_by	Yes	
created_dt_hist	X		X				DATETIME	created_dt	Yes	
demoCtcStatus	X			X			ENUM(7) DEMO_CTC_STATUS	ctc_status	Yes	O
demoCtcType	X			X			ENUM(7) DEMO_CTC_TYPE	ctc_type	Yes	
demoCtcSubType				X			ENUM(7) DEMO_CTC_SUBTYPE	ctc_subtype	Yes	
demoCtcComments							NOTEPAD(50000)	ctc_comments	Form	

2.3.5. Translated list value

DEMO_CTC_STATUS

Code	Language	Value	Order
O	ENU	Open	1
P	ENU	Processing	2
C	ENU	Closed	2
O	FRA	Ouvert	1
C	FRA	Closed	2
P	FRA	En traitement	2

DEMO_CTC_TYPE

Code	Language	Value	Order
INF	ENU	Information	1
REQ	ENU	Request	2
CMP	ENU	Complaint	3
OTH	ENU	Other	4
INF	FRA	Information	1
REQ	FRA	Demande	2
CMP	FRA	Réclamation	3
OTH	FRA	Autre	4



DEMO_CTC_SUBTYPE

Code	Language	Value	Order
DEFAULT	ENU	Default	1
DEFAULT	FRA	Par défaut	1



2.4. Business object: DemoOrder

Code	DemoOrder
Table	demo_order
Source code	DemoOrder.java
Description	The **order** business object corresponds to the product orders placed by clients. An order is for one single product.

Search mode on list	Hidden	Timestamp	Optimistic
Default panel	DemoOrderHistoric;row_ref_id	Distinct	No
Template Name	DemoOrder	Indexable	Yes
List pagination	Yes	Allows to group by	No
Preset search	Yes	Copy enabled	Yes
Select rows	Yes	Data export	Yes
Enable search in list	Yes	Bulk update	Yes
Editable list	Create on form Create on list (single) Editable list	Bulk delete	Yes
Use form	Yes	Data history	History table
Icon code	folder	Printable	Yes
Reference count	No	Follow links	Yes
Tree list	No	Mergeable	No
View mode	Vertical tabs	Social post	Popup
		Tray menu	Yes
		Dashboard menu	Yes

2.4.1. Object translation

Target Code	Lan	Translation	Module Name
DemoOrder	ENU	Order Orders	Demo
DemoOrder	FRA	Commande Commandes	Demo

2.4.2. Function

Code	Object Code	Func t	Action Name	View Name
DEMO-ORD-CU	DemoOrder	C M		
DEMO-ORD-CUD	DemoOrder	C M S		
DEMO_ANALYSIS-A	DemoOrder	A	DEMO_REVENUEANALYSIS	

2.4.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
demoOrdNumber	ENU : Number	100	-1	DemoOrder-1		



Name	Trans.	Order	Sort	Zone	Object	Reference
	FRA : Numéro					
demoOrdDate	ENU : Date FRA : Date	110		DemoOrder-1		
demoOrdStatus	ENU : Status FRA : Etat	120		DemoOrder-1		
demoOrdDeliveryDate	ENU : Delivery date FRA : Date de livraison	130		DemoOrder-1		
demoOrdCliId	ENU : Customer FRA : Client	200		DemoOrder-2	DemoClient	Cascade
demoCliCode	ENU : Code FRA : Code	210		DemoOrder-2	DemoClient	demoOrdCliId
demoCliFirstname	ENU : First name FRA : Prénom	220		DemoOrder-2	DemoClient	demoOrdCliId
demoCliLastname	ENU : Last name FRA : Nom	230		DemoOrder-2	DemoClient	demoOrdCliId
demoCliEmail	ENU : E-mail FRA : E-mail	240		DemoOrder-2	DemoClient	demoOrdCliId
demoCliAddress1	ENU : Address 1 FRA : Adresse 1	250		DemoOrder-2	DemoClient	demoOrdCliId
demoCliAddress2	ENU : Address 2 FRA : Adresse 2	251		DemoOrder-2	DemoClient	demoOrdCliId
demoCliAddress3	ENU : Address 3 FRA : Adresse 3	252		DemoOrder-2	DemoClient	demoOrdCliId
demoCliZipCode	ENU : Zip code FRA : Code postal	253		DemoOrder-2	DemoClient	demoOrdCliId
demoCliCity	ENU : City FRA : Ville	254		DemoOrder-2	DemoClient	demoOrdCliId
demoCliCountry	ENU : Country FRA : Pays	255		DemoOrder-2	DemoClient	demoOrdCliId
demoOrdPrdId	ENU : Product FRA : Produit	300		DemoOrder-3	DemoProduct	Cascade
demoPrdReference	ENU : Reference FRA : Référence	310		DemoOrder-3	DemoProduct	demoOrdPrdId
demoPrdName	ENU : Name FRA : Nom	320		DemoOrder-3	DemoProduct	demoOrdPrdId
demoPrdPicture	ENU : Picture FRA : Photo	330		DemoOrder-3	DemoProduct	demoOrdPrdId
demoPrdSupId	ENU : Supplier FRA : Fournisseur	340		DemoOrder-3	DemoProduct	demoOrdPrdId
demoSupCode	ENU : Code FRA : Code	350		DemoOrder-3	DemoSupplier	demoPrdSupId
demoSupName	ENU : Name FRA : Nom	360		DemoOrder-3	DemoSupplier	demoPrdSupId
demoSupLogo	ENU : Logo FRA : Logo	370		DemoOrder-3	DemoSupplier	demoPrdSupId
demoSupUsrId	ENU : Responsible user FRA : Utilisateur responsable	375		DemoOrder-3	DemoSupplier	demoPrdSupId
demoPrdStock	ENU : Stock FRA : Stock	380		DemoOrder-3	DemoProduct	demoOrdPrdId
demoPrdUnitPrice	ENU : Unit price FRA : Prix unitaire	390		DemoOrder-3	DemoProduct	demoOrdPrdId
demoOrdUnitPrice	ENU : Unit price FRA : Prix unitaire	400		DemoOrder-4		
demoOrdQuantity	ENU : Quantity FRA : Quantité	410		DemoOrder-4		
demoOrdTotal	ENU : Total FRA : Total commande	420		DemoOrder-4		
demoOrdVAT	ENU : VAT FRA : TVA	430		DemoOrder-4		
demoOrdComments	ENU : Comments FRA : Commentaires	500		DemoOrder-5		



2.4.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoOrdNumber	X		X	X			INT(11)	ord_number	Yes	[ROWID]
demoOrdDate							DATE	ord_date	Yes	[DATE]
demoOrdStatus	X						ENUM(7) DEMO_ORD_STATUS	ord_status	Yes	P
demoOrdDeliveryDate				X			DATETIME	ord_deliverydate	Form	[DATE:3] + "08:00:00"
demoOrdCliId	X	X	X	X			ID	ord_cli_id	Yes	
demoCliCode	X	X	X	X			CHAR(10)	cli_code	Yes	
demoCliFirstname	X	X		X			CHAR(100)	cli_firstname	Yes	
demoCliLastname	X	X		X			CHAR(100)	cli_lastname	Yes	
demoCliEmail		X		X			EMAIL(50)	cli_email	Yes	
demoCliAddress1	X						CHAR(100)	cli_address1	Form	
demoCliAddress2							CHAR(100)	cli_address2	Form	
demoCliAddress3							CHAR(100)	cli_address3	Form	
demoCliZipCode	X	X		X			CHAR(10)	cli_zipcode	Yes	
demoCliCity	X	X		X			CHAR(50)	cli_city	Yes	
demoCliCountry	X	X		X			ENUM(7) DEMO_COUNTRY	cli_country	Yes	
demoOrdPrdId	X	X	X	X			ID	ord_prd_id	Yes	
demoPrdReference	X	X	X	X			CHAR(10)	prd_code	Yes	
demoPrdName	X	X		X			CHAR(100)	prd_name	Yes	
demoPrdPicture							IMAGE	prd_picture	Yes	
demoPrdSupId	X	X	X	X			ID	prd_sup_id	Yes	
demoSupCode	X	X	X	X			CHAR(50)	sup_code	Yes	
demoSupName	X	X		X			CHAR(100)	sup_name	Yes	
demoSupLogo							IMAGE	sup_logo	Yes	
demoSupUsrId				X			ID	sup_usr_id	Yes	[USERID]
demoPrdStock	X	X		X			INT(11)	prd_stock	Yes	0
demoPrdUnitPrice	X	X		X			FLOAT(11, 2)	prd_unitprice	Yes	0
demoOrdUnitPrice							FLOAT(11, 2)	ord_unitprice	Form	
demoOrdQuantity	X	X					INT(11)	ord_quantity	Yes	1
demoOrdTotal				X			FLOAT(11, 2)	ord_total	Yes	0
demoOrdVAT							FLOAT(11, 2)		Yes	0
demoOrdComments							NOTEPAD(50000)	ord_comments	Form	

2.4.5. Translated list value

DEMO_ORD_STATUS

Code	Language	Value	Order
P	ENU	Pending	1
V	ENU	Validated	2



Code	Language	Value	Order
D	ENU	Shipped	3
C	ENU	Cancelled	4
P	FRA	En attente	1
V	FRA	Validée	2
D	FRA	Envoyée	3
C	FRA	Annulée	4

DEMO_COUNTRY

Code	Language	Value	Order
FR	ENU	France	1
UK	ENU	United Kingdom	2
SP	ENU	Spain	3
FR	FRA	France	1
UK	FRA	Royaume Uni	2
SP	FRA	Espagne	3

2.4.6. ObjectDB extends

Java method	Parameters
Object printReceipt	PrintTemplate
List postValidate	
String postUpdate	
String postSave	
boolean canReference	String, String
boolean isPrintTemplateEnable	String[], String
String getUserKeyLabel	String[]

2.4.7. Object script

```
Code DemoOrder

package com.simplicite.objects.Demo;

import java.util.Date;
import java.util.List;
import java.util.ArrayList;

import com.simplicite.commons.Demo.DemoCommon;
import com.simplicite.util.AppLog;
import com.simplicite.util.Mail;
import com.simplicite.util.Message;
import com.simplicite.util.ObjectDB;
import com.simplicite.util.PrintTemplate;
import com.simplicite.util.Tool;

/**
 * Order business object
 */
public class DemoOrder extends ObjectDB {
    private static final long serialVersionUID = 1L;

    @Override
    public List<String> postValidate() {
        List<String> msgs = new ArrayList<>();
        // Order quantity checking
        if (getField("demoOrdQuantity").getInt(0) <= 0) {
            AppLog.error(getClass(), "postValidate", "Order quantity <0 for order " + getField("demoOrdNumber").getValue(), null,
            getGrant());
            msgs.add(Message.formatError("ERR_DEMO_ORD_QUANTITY", null, "demoOrdQuantity"));
        }
        // Quantity checking
        if ("D".equals(getStatus()) && getField("demoOrdPrdId.demoPrdStock").getInt(0) - getField("demoOrdQuantity").getInt(0) <= 0)
        {
            AppLog.error(getClass(), "postValidate", "Zero stock on " + getField("demoOrdPrdId.demoPrdReference").getValue(), null,
```



Code DemoOrder

```
AppLog.error(getClass(), "postValidate", "Zero stock on " + getField("demoOrdPrdId.demoPrdReference").getValue(), null,
getGrant());
msgs.add(Message.formatSimpleError("ERR_DEMO_PRD_STOCK"));
}
// Set order unit price only at creation
if (isNew())
    getField("demoOrdUnitPrice").setValue(getField("demoOrdPrdId.demoPrdUnitPrice").getValue());
return msgs;
}

/** Hook override: invitation for delivery + stock decrease on shipment */
@Override
public String postUpdate() {
    if ("V".equals(getOldStatus()) && "D".equals(getStatus())) { // Upon state transition to delivered
        try {
            String n = getFieldValue("demoOrdNumber");
            Date d = Tool.fromDateTime(getFieldValue("demoOrdDeliveryDate"));
            String name = getFieldValue("demoOrdCliId.demoCliFirstname") + " " + getFieldValue("demoOrdCliId.demoCliLastname");
            String desc = "Hello " + name + ". Your order " + n + " delivery is scheduled";
            new Mail(getGrant()).sendInvitation(
                d, Tool.shiftSeconds(d, 2*3600),
                getFieldValue("demoOrdCliId.demoCliAddress1") + " " + getFieldValue("demoOrdCliId.demoCliAddress2") + " " +
                getFieldValue("demoOrdCliId.demoCliAddress3")
                + getFieldValue("demoOrdCliId.demoCliZipCode") + getFieldValue("demoOrdCliId.demoCliCity"),
                "demo@simplicite.fr", "Simplicité",
                getFieldValue("demoOrdCliId.demoCliEmail"), name,
                "Order " + n + " delivery schedule",
                desc, desc);
        } catch (Exception e) {
            AppLog.warning(getClass(), "postUpdate", "Error sending invitation", e, getGrant());
        }

        try {
            DemoProduct prd = (DemoProduct)getGrant().getTmpObject("DemoProduct");
            prd.select(getField("demoOrdPrdId").getValue());
            int q = getField("demoOrdQuantity").getInt(0);
            prd.setParameter("QUANTITY", q);
            prd.invokeAction("DEMO_DECSTOCK");
            prd.removeParameter("QUANTITY");
            // Log
            AppLog.info(getClass(), "postUpdate", "Stock decreased by " + q + " on " +
            getField("demoOrdPrdId.demoPrdReference").getValue(), getGrant());
            // User message
            return Message.formatSimpleInfo("DEMO_PRD_STOCK_DECREASED");
        } catch (Exception e) {
            String msg = "Error decreasing stock: " + e.getMessage();
            // Log
            AppLog.error(getClass(), "postUpdate", msg, e, getGrant());
            // User message
            return Message.formatSimpleError(msg);
        }
    }
    return super.postUpdate();
}

/** Hook override: check low stock */
@Override
public String postSave() {
    if (DemoCommon.isLowStock(getGrant(), getField("demoOrdPrdId"), getField("demoOrdPrdId.demoPrdStock").getInt(0)) {
        // Notify responsible user if stock is low
        try {
            new Mail(getGrant()).send(
                "demo@simplicite.fr",
                "demo@simplicite.fr",
                "Low stock on " + getField("demoOrdPrdId.demoPrdReference").getValue(),
                "<html><body>" +
                "<h3>Hello,</h3>" +
                "<p>The stock is low for product <b>" + getField("demoOrdPrdId.demoPrdReference").getValue() + "</b>" +
                "(" + getField("demoOrdPrdId.demoPrdStock").getValue() + ")<br/>Please order new ones !</p>" +
                "</body></html>");
        } catch (Exception e) {
            AppLog.warning(getClass(), "postSave", "Error sending low stock alert email", e, getGrant());
        }

        // User message
        return Message.formatSimpleWarning("ERR_DEMO_PRD_LOWSTOCK");
    }
    return super.postSave();
}

/** Hook override: custom short label */
@Override
public String getUserKeyLabel(String[] row) {
    return getGrant().T("DEMO_ORDER_NUMBER") + (row!=null ? row[getFieldIndex("demoOrdNumber")] :
    getFieldValue("demoOrdNumber"));
}

/** Hook override: hide history records on tree view */
@Override
public boolean canReference(String objName, String fkFieldName) {
    return !isTreeviewInstance() || "DemoOrderHistoric".equals(objName);
}

/** Publication: PDF receipt */
public Object printReceipt(PrintTemplate pt) {
    return DemoCommon.orderReceipt(this); // Implemented in common class
}
```



Code DemoOrder

```
return DemoCommon.orderReceipt(this); // Implemented in common class
}

/** Hook override: Allow custom publication only if status is validated or shipped */
@Override
public boolean isPrintTemplateEnable(String[] row, String ptName) {
    if ("DemoOrder-PDF".equals(ptName)) {
        String s = row!=null ? row[getStatusIndex()] : getStatus();
        return "V".equals(s) || "D".equals(s);
    }
    return super.isPrintTemplateEnable(row, ptName);
}
}
```



2.5. Business object: DemoOrderHistoric

Code	DemoOrderHistoric
Table	demo_order_hist
Description	**Order** object history, tracks changes on: - Status - Quantity
Export order	-1

Search mode on list	Top columns	Timestamp	Optimistic
Template Name	Base	Distinct	No
List pagination	Yes	Indexable	No
Preset search	No	Allows to group by	No
Select rows	No	Copy enabled	No
Enable search in list	Yes	Data export	No
Use form	No	Bulk update	No
Reference count	No	Bulk delete	No
Tree list	No	Printable	Yes
View mode	Vertical tabs	Follow links	Yes
		Mergeable	No
		Social post	Popup
		Tray menu	No
		Dashboard menu	No

2.5.1. Object translation

Target Code	Lan	Translation	Module Name
DemoOrderHistoric	ENU	Order (hist.)	Demo
DemoOrderHistoric	FRA	Commande (hist.)	Demo

2.5.2. Function

Code	Object Code	Function	Action Name	View Name
DemoOrder-H	DemoOrderHistoric	L		

2.5.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
row_ref_id	ENU : Référence FRA : Référence	1	1		DemoOrder	Cascade
row_idx	ENU : Version FRA : Version	2	2			
created_by_hist	ENU : User FRA : Utilisateur	3				
created_dt_hist	ENU : Date FRA : Date	4				



Name	Trans.	Order	Sort	Zone	Object	Reference
demoOrdStatus	ENU : Status FRA : Etat	100				
demoOrdQuantity	ENU : Quantity FRA : Quantité	110				

2.5.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
row_ref_id	X		X	X			ID	row_ref_id	Yes	
row_idx	X	X	X	X			INT(11)	row_idx	Yes	
created_by_hist	X		X				CHAR(100)	created_by	Yes	
created_dt_hist	X		X				DATETIME	created_dt	Yes	
demoOrdStatus	X						ENUM(7) DEMO_ORD_STATUS	ord_status	Yes	P
demoOrdQuantity	X	X					INT(11)	ord_quantity	Yes	1

2.5.5. Translated list value

DEMO_ORD_STATUS

Code	Language	Value	Order
P	ENU	Pending	1
V	ENU	Validated	2
D	ENU	Shipped	3
C	ENU	Cancelled	4
P	FRA	En attente	1
V	FRA	Validée	2
D	FRA	Envoyée	3
C	FRA	Annulée	4



2.6. Business object: DemoProduct

Code	DemoProduct
Table	demo_product
Source code	DemoProduct.java
Description	The **product** business object corresponds to the products that can be ordered. Its reference is unique per supplier.
Export order	2

Search mode on list	Hidden	Timestamp	Optimistic
Default panel	DemoProductHistoric;row_ref_id	Distinct	No
Template Name	DemoProduct	Indexable	Yes
List pagination	Yes	Allows to group by	No
Preset search	Yes	Copy enabled	Yes
Select rows	Yes	Data export	Yes
Enable search in list	Yes	Bulk update	Yes
Editable list	Create + Update + Delete	Bulk delete	Yes
Use form	Yes	Data history	History table
Icon code	box	Printable	Yes
Reference count	No	Follow links	Yes
Tree list	No	Mergeable	No
View mode	Vertical tabs	Social post	Popup
		Tray menu	Yes
		Dashboard menu	Yes

2.6.1. Object translation

Target Code	Lan	Translation	Module Name
DemoProduct	ENU	Product Products	Demo
DemoProduct	FRA	Produit Produits	Demo

2.6.2. Function

Code	Object Code	Function	Action Name	View Name
DEMO-PRD-CUD	DemoProduct	CMS		
DEMO-PRD-R	DemoProduct	L		
DEMO_DECSTOCK-A	DemoProduct	A	DEMO_DECSTOCK	
DEMO_INCSTOCK-A	DemoProduct	A	DEMO_INCSTOCK	

2.6.3. Object field



Name	Trans.	Order	Sort	Zone	Object	Reference
demoPrdSupId	ENU : Supplier FRA : Fournisseur	100		DemoProduct-1	DemoSupplier	Cascade
demoSupCode	ENU : Code FRA : Code	110	1	DemoProduct-1	DemoSupplier	demoPrdSupId
demoSupName	ENU : Name FRA : Nom	120		DemoProduct-1	DemoSupplier	demoPrdSupId
demoSupLogo	ENU : Logo FRA : Logo	130		DemoProduct-1	DemoSupplier	demoPrdSupId
demoSupUsrId	ENU : Responsible user FRA : Utilisateur responsable	140		DemoProduct-1	DemoSupplier	demoPrdSupId
demoPrdReference	ENU : Reference FRA : Référence	200	2	DemoProduct-2		
demoPrdName	ENU : Name FRA : Nom	210		DemoProduct-2		
demoPrdType	ENU : Type FRA : Type	220		DemoProduct-2		
demoPrdDescription	ENU : Description FRA : Description	230		DemoProduct-2		
demoPrdPicture	ENU : Picture FRA : Photo	240		DemoProduct-2		
demoPrdStock	ENU : Stock FRA : Stock	300		DemoProduct-3		
demoPrdUnitPrice	ENU : Unit price FRA : Prix unitaire	310		DemoProduct-3		
demoPrdAvailable	ENU : Available FRA : Disponible ?	320		DemoProduct-3		
demoPrdDocumentation	ENU : Description FRA : Description	400		DemoProduct-4		
demoPrdBrochure	ENU : Brochure FRA : Brochure	410		DemoProduct-4		
demoPrdOnlineDoc	ENU : Online doc FRA : Documentation en ligne	420		DemoProduct-4		
demoPrdComments	ENU : Comments FRA : Commentaires	500		DemoProduct-5		

2.6.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoPrdSupId	X	X	X	X			ID	prd_sup_id	Yes	
demoSupCode	X	X	X	X			CHAR(50)	sup_code	Yes	
demoSupName	X	X		X			CHAR(100)	sup_name	Yes	
demoSupLogo							IMAGE	sup_logo	Yes	
demoSupUsrId				X			ID	sup_usr_id	Yes	[USERID]
demoPrdReference	X	X	X	X			CHAR(10)	prd_code	Yes	
demoPrdName	X	X		X			CHAR(100)	prd_name	Yes	
demoPrdType	X	X		X			ENUM(7) DEMO_PRD_TYPE	prd_type	Yes	
demoPrdDescription					X	X	TEXT(1000000)	prd_description	Form	
demoPrdPicture							IMAGE	prd_picture	Yes	
demoPrdStock	X	X		X			INT(11)	prd_stock	Yes	0
demoPrdUnitPrice	X	X		X			FLOAT(11, 2)	prd_unitprice	Yes	0



Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoPrdAvailable	X			X	X		BOOLEAN	prd_available	Yes	1
demoPrdDocumentation					X	X	HTML(1000000)	prd_documentation	Form	
demoPrdBrochure				X	X	X	DOCUMENT	prd_brochure	Yes	
demoPrdOnlineDoc		X			X		URL(255)	prd_onlinedoc	Form	
demoPrdComments							NOTEPAD(50000)	prd_comments	Form	

2.6.5. Translated list value

DEMO_PRD_TYPE

Code	Language	Value	Order
LAPTOP	ENU	Laptop	10
DESKTOP	ENU	Desktop	20
TABLET	ENU	Tablet	30
SMARTPHONE	ENU	Smartphone	40
OTHER	ENU	Other	50
LAPTOP	FRA	PC portable	10
DESKTOP	FRA	PC de bureau	20
TABLET	FRA	Tablette	30
SMARTPHONE	FRA	Smartphone	40
OTHER	FRA	Autre	50

2.6.6. ObjectDB extends

Java method	Parameters
String increaseStock	Map
String decreaseStock	
Object printCatalog	PrintTemplate
void initAction	Action
boolean canReference	String, String
String getUserKeyLabel	String[]
String unitTests	

2.6.7. Object script

Code DemoProduct
<pre> package com.simplicite.objects.Demo; import static org.junit.Assert.assertEquals; import static org.junit.Assert.fail; import java.util.Map; import org.junit.Test; import com.simplicite.util.Action; import com.simplicite.util.AppLog; import com.simplicite.util.Grant; import com.simplicite.util.Message; import com.simplicite.util.ObjectDB; import com.simplicite.util.ObjectField; import com.simplicite.util.PrintTemplate; import com.simplicite.util.Tool; </pre>



Code DemoProduct

```
import com.simplicite.util.Tool;
import com.simplicite.util.tools.DocxTool;
import com.simplicite.util.tools.JUnitTool;

/**
 * Product business object
 */
public class DemoProduct extends ObjectDB {
    private static final long serialVersionUID = 1L;

    /** Default increment */
    public static final int DEFAULT_INCREMENT = 10;

    /** Init default increment */
    @Override
    public void initAction(Action action) {
        if ("DEMO_INCSTOCK".equals(action.getName())) {
            ObjectField f = action.getConfirmField(getGrant().getLang(), "demoPrdIncrement");
            if (f!=null) f.setDefaultValue(String.valueOf(DEFAULT_INCREMENT));
        }
    }

    /** Action: increase stock */
    public String increaseStock(Map<String, String> params) {
        int q = Tool.parseInt(params.get("demoPrdIncrement"), DEFAULT_INCREMENT);
        if (q > 0) {
            ObjectField s = getField("demoPrdStock");
            s.setValue(s.getInt() + q);
            save();
            // Log
            AppLog.info(getClass(), "increaseStock", "Stock for " + getFieldValue("demoPrdReference") + " is now " + s.getValue(),
            getGrant());
            // User message
            return Message.formatSimpleInfo("DEMO_PRD_STOCK_INCREASED:" + s.getValue());
        } else
            return Message.formatSimpleError("DEMO_PRD_ERR_INCREMENT:" + q);
    }

    /** Action: decrease stock */
    public String decreaseStock() {
        // Decrease stock
        int q = getIntParameter("QUANTITY", 0);
        ObjectField s = getField("demoPrdStock");
        s.setValue(s.getInt() - q);
        save();
        // Log
        AppLog.info(getClass(), "decreaseStock", "Stock for " + getFieldValue("demoPrdReference") + " is now " + s.getValue(),
        getGrant());
        // User message
        return Message.formatSimpleInfo("DEMO_PRD_STOCK_DECREASED:" + q);
    }

    /** Publication: Microsoft Word(R) catalog */
    public Object printCatalog(PrintTemplate pt) {
        try {
            DocxTool d = new DocxTool();
            d.newDocument();
            d.addStyledParagraph(DocxTool.STYLE_TITLE, getFieldValue("demoPrdName") + " (" + getFieldValue("demoPrdReference") + ")");
            d.addParagraph(getFieldValue("demoPrdDescription"));
            d.addHTML(getFieldValue("demoPrdDocumentation"));
            return d.toByteArray();
        } catch (Exception e) {
            AppLog.error(getClass(), "catalog", "Unable to publish catalog", e, getGrant());
            return null;
        }
    }

    /** Hook override: custom short label */
    @Override
    public String getUserKeyLabel(String[] row) {
        return row!=null ? row[getFieldIndex("demoPrdReference")] : getFieldValue("demoPrdReference");
    }

    /** Hook override: hide history records on tree view */
    @Override
    public boolean canReference(String objName, String fkFieldName) {
        return !isTreeviewInstance() || "DemoProductHistoric".equals(objName);
    }

    /** JUnit test class */
    public static class DemoProductTest {
        /** Decrement test */
        @Test
        public void testDecrement() {
            try {
                ObjectDB prd = Grant.getSystemAdmin().getTmpObject("DemoProduct");
                prd.setValues(prd.search().get(0), true);
                ObjectField s = prd.getField("demoPrdStock");
                int n = s.getInt();
                prd.setParameter("QUANTITY", 10);
                prd.invokeAction("DEMO_DECSTOCK");
                assertEquals(n - 10, s.getInt());
            } catch (Exception e) {
                fail(e.getMessage());
            }
        }
    }
}
```



Code DemoProduct

```
}  
}  
  
/** Hook override: launch JUnit tests classes */  
@Override  
public String unitTests() {  
    JUnitTool t = new JUnitTool(getGrant());  
    return  
        t.run("com.simplicite.commons.Demo.DemoProductTest") + // Shared code test class  
        t.run(DemoProductTest.class); // Nested test class  
}  
}
```



2.7. Business object: DemoProductHistoric

Code	DemoProductHistoric
Table	demo_product_hist
Description	**Product** object history, tracks changes on: - Product name - Unit price - Availability
Export order	-1

Search mode on list	Top columns
Template Name	Base
List pagination	Yes
Preset search	No
Select rows	Yes
Enable search in list	Yes
Use form	No
Reference count	No
Tree list	No
View mode	Vertical tabs

Timestamp	Optimistic
Distinct	No
Indexable	No
Allows to group by	No
Copy enabled	No
Data export	No
Bulk update	No
Bulk delete	No
Printable	Yes
Follow links	Yes
Mergeable	No
Social post	Popup
Tray menu	No
Dashboard menu	No

2.7.1. Object translation

Target Code	Lan	Translation	Module Name
DemoProductHistoric	ENU	Product (hist.)	Demo
DemoProductHistoric	FRA	Produit (hist.)	Demo

2.7.2. Function

Code	Object Code	Func t	Action Name	View Name
DemoProduct-H	DemoProductHistoric	L		

2.7.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
row_ref_id	ENU : Référence FRA : Référence	1			DemoProduct	Cascade
row_idx	ENU : Version FRA : Version	2				
created_by_hist	ENU : User FRA : Utilisateur	3				
created_dt_hist	ENU : Date FRA : Date	4	-1			



Name	Trans.	Order	Sort	Zone	Object	Reference
demoPrdReference	ENU : Reference FRA : Référence	200				
demoPrdName	ENU : Name FRA : Nom	210				
demoPrdUnitPrice	ENU : Unit price FRA : Prix unitaire	310				
demoPrdAvailable	ENU : Available FRA : Disponible ?	320				

2.7.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
row_ref_id	X		X	X			ID	row_ref_id	Yes	
row_idx	X	X	X	X			INT(11)	row_idx	Yes	
created_by_hist	X		X				CHAR(100)	created_by	Yes	
created_dt_hist	X		X				DATETIME	created_dt	Yes	
demoPrdReference	X	X	X	X			CHAR(10)	prd_code	Yes	
demoPrdName	X	X		X			CHAR(100)	prd_name	Yes	
demoPrdUnitPrice	X	X		X			FLOAT(11, 2)	prd_unitprice	Yes	0
demoPrdAvailable	X			X	X		BOOLEAN	prd_available	Yes	1



2.8. Business object: DemoSupplier

Code	DemoSupplier
Table	demo_supplier
Description	The **supplier** business object corresponds to the suppliers of products that can be ordered.
Export order	1

Search mode on list	Hidden	Timestamp	Optimistic
Default panel	DemoProduct;demoPrdSupId	Distinct	No
Template Name	DemoSupplier	Indexable	Yes
List pagination	Yes	Allows to group by	No
Preset search	Yes	Copy enabled	Yes
Select rows	Yes	Data export	Yes
Enable search in list	Yes	Bulk update	Yes
Editable list	Create + Update + Delete	Bulk delete	Yes
Use form	Yes	Data history	Social post Change log
Icon code	building	Printable	Yes
Reference count	No	Follow links	Yes
Tree list	No	Mergeable	No
View mode	Vertical tabs	Social post	Popup
		Tray menu	Yes
		Dashboard menu	Yes

2.8.1. Object translation

Target Code	Lan	Translation	Module Name
DemoSupplier	ENU	Supplier Suppliers	Demo
DemoSupplier	FRA	Fournisseur Fournisseurs	Demo

2.8.2. Function

Code	Object Code	Function	Action Name	View Name
DEMO-SUP-CUD	DemoSupplier	C M S		
DEMO-SUP-R	DemoSupplier	L		

2.8.3. Object field

Name	Trans.	Order	Sort	Zone	Object	Reference
demoSupCode	ENU : Code FRA : Code	100	1	DemoSupplier-1		
demoSupName	ENU : Name FRA : Nom	110		DemoSupplier-1		



Name	Trans.	Order	Sort	Zone	Object	Reference
demoSupDescription	ENU : Description FRA : Description	120		DemoSupplier-1		
demoSupPhone	ENU : Phone FRA : Téléphone	130		DemoSupplier-1		
demoSupFax	ENU : Fax FRA : Fax	140		DemoSupplier-1		
demoSupWebsite	ENU : Website FRA : Site web	150		DemoSupplier-1		
demoSupEmail	ENU : Email FRA : E-mail	160		DemoSupplier-1		
demoSupLogo	ENU : Logo FRA : Logo	200		DemoSupplier-2		
demoSupUsrId	ENU : Responsible user FRA : Utilisateur responsable	300		DemoSupplier-3	User	Null
usr_login	ENU : Login FRA : Login	310		DemoSupplier-3	User	demoSupUsrId
demoSupComments	ENU : Comments FRA : Commentaires	320		DemoSupplier-3		

2.8.4. Field

Name	Required	Update	Key	Search	More form	More list	Type	Column	Visible	Default value
demoSupCode	X	X	X	X			CHAR(50)	sup_code	Yes	
demoSupName	X	X		X			CHAR(100)	sup_name	Yes	
demoSupDescription					X	X	TEXT(1000000)	sup_description	Form	
demoSupPhone				X			PHONE(20)	sup_phone	Form	
demoSupFax				X			PHONE(20)	sup_fax	Form	
demoSupWebsite		X					URL(100)	sup_website	Yes	
demoSupEmail				X			EMAIL(20)	sup_email	Form	
demoSupLogo							IMAGE	sup_logo	Yes	
demoSupUsrId				X			ID	sup_usr_id	Yes	[USERID]
usr_login	X	X	X	X			REGEXP(100) LOGIN	usr_login	Yes	
demoSupComments							NOTEPAD(50000)	sup_comments	Form	

2.9. External object: DemoCatalog

Property	Value
URL	
Help	
Translation	ENU: Catalog API FRA: API catalogue
Function	DemoCatalog-E: L

2.9.1. Script extobject

code
<pre>package com.simplicite.extobjects.Demo; import java.util.List;</pre>



code

```
import org.json.JSONArray;
import org.json.JSONObject;

import com.simplicite.objects.Demo.DemoProduct;
import com.simplicite.util.AppLog;
import com.simplicite.util.ExternalObject;
import com.simplicite.util.tools.Parameters;

/**
 * Catalog custom API
 */
public class DemoCatalog extends ExternalObject {
    private static final long serialVersionUID = 1L;

    /**
     * Display method
     * @param params Request parameters
     */
    @Override
    public Object display(Parameters params) {
        // ZZZ API external object ZZZ
        setJSONMIMEType();

        String method = params.getMethod();
        AppLog.info(getClass(), "display", "Method = " + method, getGrant());

        JSONObject req = params.getJSONObject();
        if (req!=null)
            AppLog.info(getClass(), "display", "Request = " + req.toString(), getGrant());

        JSONArray ps = new JSONArray();
        DemoProduct prd = (DemoProduct)getGrant().getTmpObject("DemoProduct");
        List<String[]> rows = prd.search();
        for (int i = 0; i < rows.size(); i++) {
            prd.setValues(rows.get(i), false);
            JSONObject p = new JSONObject();
            p.put("ref", prd.getFieldValue("demoPrdReference"));
            p.put("name", prd.getFieldValue("demoPrdName"));
            ps.put(p);
        }

        JSONObject res = new JSONObject();
        if (req!=null)
            res.put("request", req);
        res.put("response", ps);
        return res.toString();
    }
}
```

2.10. External object: DemoOrderAgenda

Property	Value
URL	
Help	
Translation	ENU: Deliveries agenda FRA: Calendrier des livraisons
Function	DemoOrderAgenda-E: L

2.10.1. Script extobject

code

```
package com.simplicite.extobjects.Demo;

import com.simplicite.util.tools.Parameters;

/**
 * Order agenda custom UI component
 */
public class DemoOrderAgenda extends com.simplicite.webapp.web.ResponsiveExternalObject {
    private static final long serialVersionUID = 1L;

    @Override
    public String getRenderStatement(Parameters params) {
        return "$sui.loadCalendar(function() { " + super.getRenderStatement(params) + " });";
    }
}
```



2.11. External object: DemoPlaceNewOrder

Property	Value
URL	
Help	
Translation	ENU: Place a new order page FRA: Page nouvelle commande
Function	DemoPlaceNewOrder-E: L

2.11.1. Script extobject

code
<pre>package com.simplicite.extobjects.Demo; /** * Place new order custom UI component */ public class DemoPlaceNewOrder extends com.simplicite.webapp.web.ResponsiveExternalObject { private static final long serialVersionUID = 1L; }</pre>

2.12. External object: DemoWebSite

Property	Value
URL	
Help	
Translation	ENU: Demo web site (bootstrap) FRA: Site web demo (bootstrap)
Function	DemoWebSite-E: L

2.12.1. Script extobject

code
<pre>package com.simplicite.extobjects.Demo; import java.util.LinkedHashMap; import com.simplicite.util.ExternalObject; import com.simplicite.util.tools.Parameters; import com.simplicite.webapp.HTMLPage; import com.simplicite.webapp.web.BootstrapWebPage; /** * Web site custom frontend UI */ public class DemoWebSite extends ExternalObject { private static final long serialVersionUID = 1L; /** * Display method * @param params Request parameters */ @Override public Object display(Parameters params) { // ZZZ IMPORTANT ZZZ Standalone page setDecoration(false); // Default Bootstrap page BootstrapWebPage wp = new BootstrapWebPage(params.getRoot(), "Demo web site", false); // Themed Bootstrap page with custom styles //BootstrapWebPage wp = new BootstrapWebPage(params.getRoot(), "Demo web site", "dark"); //wp.appendCSS(".navbar-inverse { background-color: #464545; }.navbar-inverse .navbar-nav>li>a: hover, .navbar-inverse .navbar-nav>li>a: focus { color: #A0A0A0; }"); wp.appendJS("var ROOT = \"\" + wp.getRoot() + \"\";"); wp.appendAjax(); wp.appendFullcalendar(); wp.appendJSInclude(HTMLPage.getResourceJSURL(this, "SCRIPT")); wp.setFavicon(HTMLPage.getResourceIconURL(this, "FAVICON")); wp.setReady("DemoWebSiteBootstrap.init(\"\" + HTMLPage.getResourceImageURL(this, "LOADING") + \"\";"); LinkedHashMap<String, String> m = new LinkedHashMap<>(); m.put("menu-catalog", "Catalog"); } }</pre>



code

```

m.put("menu-orders", "My orders");
m.put("menu-messages", "My messages");
m.put("menu-agenda", "My deliveries");
m.put("menu-news", "News");
wp.setMenu("menu-brand", "<img src=\"\" + HTMLPage.getResourceImageURL(this, "LOGO") + \"\"/>", m, true, false, true);
//wp.setSideMenu(m);

wp.appendHTML("<div id=\"header\" class=\"well\" style=\"display: none;\"></div>");
wp.appendHTML("<div id=\"info\" class=\"alert alert-success\" style=\"display: none;\"></div>");
wp.appendHTML("<div id=\"warning\" class=\"alert alert-warning\" style=\"display: none;\"></div>");
wp.appendHTML("<div id=\"error\" class=\"alert alert-danger\" style=\"display: none;\"></div>");
wp.appendHTML("<div id=\"main\"></div>");
wp.appendHTML("<div id=\"footer\">&copy; Simplicite Software</div>");

return wp.toString();
}
}

```

2.13. External object: demows

Property	Value
URL	
Help	
Translation	ENU: Custom webservice FRA: Webservices spécifiques
Function	demows: L

2.13.1. Script extobject

code

```

package com.simplicite.extobjects.Demo;

import com.simplicite.util.tools.JSONTool;
import com.simplicite.util.tools.Parameters;

/**
 * Custom REST web services (suppliers and products only)
 */
public class demows extends com.simplicite.webapp.services.RESTMappedObjectsExternalObject {
    private static final long serialVersionUID = 1L;

    @Override
    public void init(Parameters params) {
        setOpenAPISpec(JSONTool.OPENAPI_OAS2);
        setOpenAPIDesc("This is a **simplified** variant of the demo API for the following business objects:\n\n- Suppliers\n- Products\n- Orders");
        setOpenAPIVers("v4.0");

        addObject("suppliers", "DemoSupplier");
        addField("suppliers", "code", "demoSupCode");
        addField("suppliers", "name", "demoSupName");

        addObject("products", "DemoProduct");
        // **Without** embedded list
        //addRefField("products", "suppliers", "supplierId", "demoPrdSupId", "Reference to supplier's row ID");
        // **With** embedded list
        addRefField("products", "suppliers", "supplierId", "demoPrdSupId", "supplierProducts", true, "Reference to supplier's row ID");
        addField("products", "supplierCode", "demoPrdSupId.demoSupCode");
        addField("products", "supplierName", "demoPrdSupId.demoSupName");
        addField("products", "reference", "demoPrdReference");
        addField("products", "name", "demoPrdName");

        addObject("orders", "DemoOrder");
        // **Without** embedded list
        //addRefField("orders", "products", "productId", "demoOrdPrdId", "Reference to product's row ID");
        // **With** embedded list
        addRefField("orders", "products", "productId", "demoOrdPrdId", "productOrders", true, "Reference to product's row ID");
        addField("orders", "number", "demoOrdNumber");
        addField("orders", "date", "demoOrdDate");
        addField("orders", "status", "demoOrdStatus");
        addField("orders", "productReference", "demoOrdPrdId.demoPrdReference");
        addField("orders", "productName", "demoOrdPrdId.demoPrdName");
        addField("orders", "productSupplierCode", "demoOrdPrdId.demoPrdSupId.demoSupCode");
        addField("orders", "productSupplierName", "demoOrdPrdId.demoPrdSupId.demoSupName");
    }
}

```





3. Users and rights

3.1. Group

Name	Type	Parent group	Home page
DEMO_ADMIN	G;D;W;R		DemoAdminHome
DEMO_PUBLIC	G		
DEMO_USER	G;D;W;R		DemoUserHome
DEMO_WEBSITE	G		

GROUP_TYPE:

- G: Business object permission
- D: Document permission
- W: Workflow permission
- R: Service to register
- N: Notification

3.2. Profile

Profile	Group
ADMIN	DEMO_ADMIN
DEMO_ADMIN	MODELER
DEMO_ADMIN	SOCIAL_USER
DEMO_ADMIN	USER_PASSWORD
DEMO_ADMIN	WEB_USER
DEMO_USER	SOCIAL_USER
DEMO_USER	USER_PASSWORD
DEMO_USER	WEB_USER
DESIGNER	DEMO_ADMIN


3.3. Responsibility

User Login	Group Name	Effective date	End date	E
admin	DEMO_ADMIN	01/01/2000		Yes
admin	SOCIAL_ADMIN	01/01/2000		No
admin	SOCIAL_USER	01/01/2000		No
admin	USER_ADMIN	01/01/2000		No
admin	USER_PASSWORD	01/01/2000		No
admin	WEB_ADMIN	01/01/2000		No
admin	WEB_USER	01/01/2000		No
designer	DEMO_ADMIN	02/10/2015		Yes
public	DEMO_PUBLIC	10/01/2000		Yes
public	DEMO_PUBLIC	02/10/2015		Yes
user_enu	DEMO_USER	01/01/2000		Yes
user_enu	SOCIAL_USER	01/01/2000		Yes



user_enu	USER_PASSWORD	01/01/2000		Yes
user_enu	WEB_USER	01/01/2000		Yes
user_fra	DEMO_USER	01/01/2000		Yes
user_fra	SOCIAL_USER	01/01/2000		Yes
user_fra	USER_PASSWORD	01/01/2000		Yes
user_fra	WEB_USER	01/01/2000		Yes
website	DEMO_WEBSITE	10/17/2014		Yes

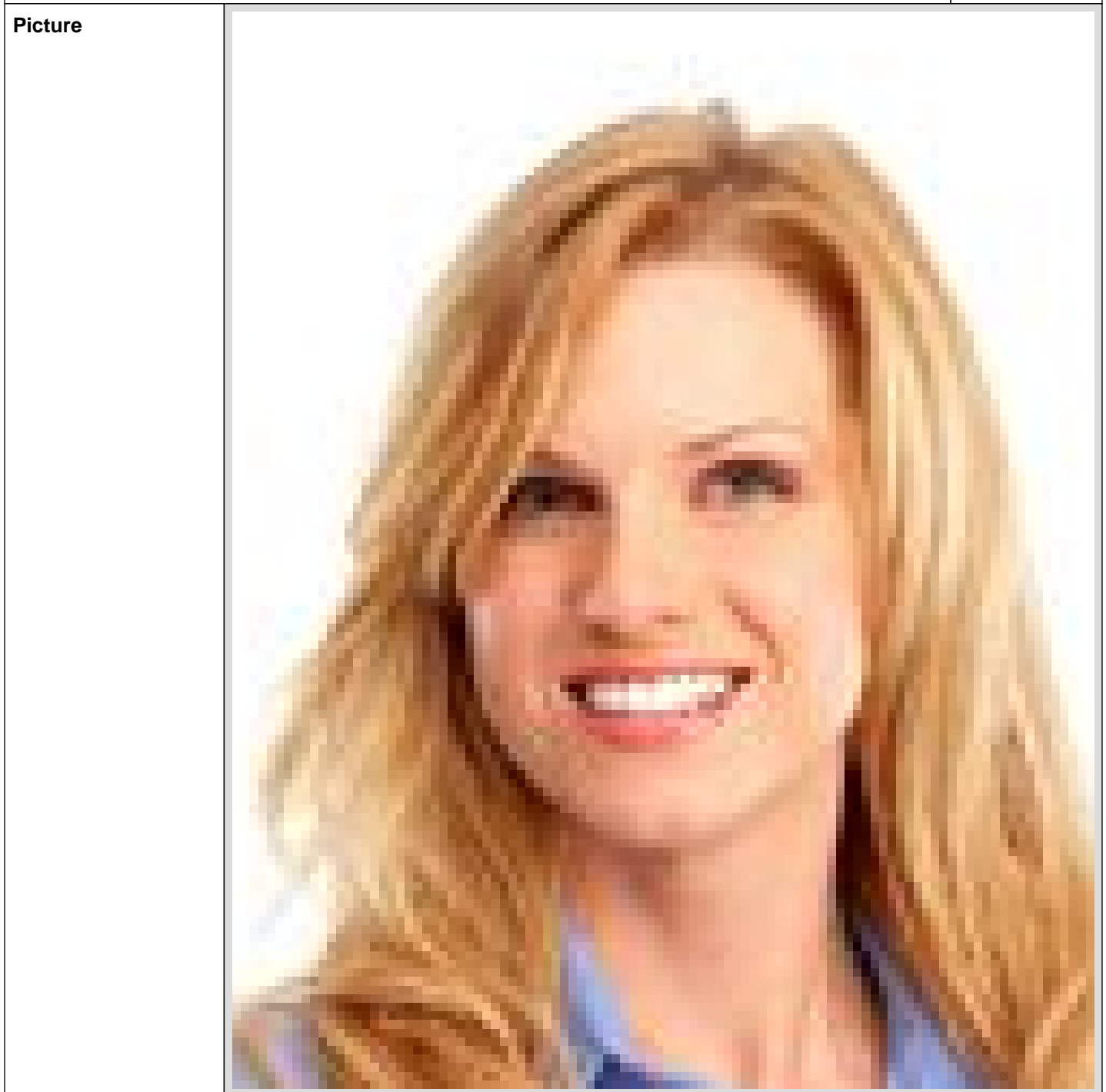
3.4. User

Login		Language
admin		ENU
Picture		



Active	1
Name	SMITH
First name	Barbara
Email	demo@simplicite.fr
Home page	DemoAdminHome
Last logon	01/28/2020 17:41:48

Login	Language
user_enu	ENU





Active	1
Name	MARTIN
First name	Allison
Email	demo@simplicite.fr
Home page	DemoUserHome

Login		Language
user_fra		FRA



Active	1
---------------	---



Name	DUPONT
First name	Pierre
Email	demo@simplicite.fr
Home page	DemoUserHome
Last logon	05/17/2019 17:06:07

Login		Language
website		ENU
Picture		
Active	3	
Name	Website	
Last logon	02/06/2020 09:52:44	

LANG: - ENU: English - FRA: French	USER_STATUS: - 0: Disabled - 1: Enabled - 2: Pending - 3: Web services only
--	---

3.5. Grant

Group Name	Name	T	Object	Action	Funct	E
DEMO_ADMIN	DEMO-ORDAGD-EXT				L	Yes
DEMO_ADMIN	BPMDashboard	E	BPMDashboard		L	Yes
DEMO_ADMIN	DemoCatalog-E	E	DemoCatalog		L	Yes
DEMO_ADMIN	DEMO-CLI-CUD	O	DemoClient		CMS	Yes
DEMO_ADMIN	DEMO_CLIENTMAP-A	O	DemoClient	DEMO_CLIENTMAP	A	Yes
DEMO_ADMIN	DEMO-CTC-CUD	O	DemoContact		CMS	Yes
DEMO_ADMIN	DemoContact-H	O	DemoContactHistoric		L	Yes



DEMO_ADMIN	DemoDomain-D	D	DemoDomain		L	Y e s
DEMO_ADMIN	DEMO-ORD-CUD	O	DemoOrder		C M S	Y e s
DEMO_ADMIN	DemoOrderAgenda-E	E	DemoOrderAgenda		L	Y e s
DEMO_ADMIN	DemoOrder-H	O	DemoOrderHistoric		L	Y e s
DEMO_ADMIN	DemoPlaceNewOrder-E	E	DemoPlaceNewOrder		L	Y e s
DEMO_ADMIN	DEMO-PRD-CUD	O	DemoProduct		C M S	Y e s
DEMO_ADMIN	DEMO_DECSTOCK-A	O	DemoProduct	DEMO_DECSTOCK	A	Y e s
DEMO_ADMIN	DEMO_INCSTOCK-A	O	DemoProduct	DEMO_INCSTOCK	A	Y e s
DEMO_ADMIN	DemoProduct-H	O	DemoProductHistoric		L	Y e s
DEMO_ADMIN	DEMO-SUP-CUD	O	DemoSupplier		C M S	Y e s
DEMO_PUBLIC	DEMO-PRD-R	O	DemoProduct		L	Y e s
DEMO_PUBLIC	DEMO-SUP-R	O	DemoSupplier		L	Y e s
DEMO_PUBLIC	DemoWebSite-E	E	DemoWebSite		L	Y e s
DEMO_PUBLIC	demows	E	demows		L	Y e s
DEMO_USER	DEMO-ORDAGD-EXT				L	Y e s
DEMO_USER	DEMO-CLI-CU	O	DemoClient		C M	Y e s
DEMO_USER	DEMO_CLIENTMAP-A	O	DemoClient	DEMO_CLIENTMAP	A	Y e s
DEMO_USER	DEMO-CTC-CU	O	DemoContact		C M	Y e s
DEMO_USER	DemoContact-H	O	DemoContactHistoric		L	Y e s



DEMO_USER	DemoDomain-D	D	DemoDomain		L	Y e s
DEMO_USER	DEMO-ORD-CU	O	DemoOrder		C M	Y e s
DEMO_USER	DemoOrderAgenda-E	E	DemoOrderAgenda		L	Y e s
DEMO_USER	DemoOrder-H	O	DemoOrderHistoric		L	Y e s
DEMO_USER	DemoPlaceNewOrder-E	E	DemoPlaceNewOrder		L	Y e s
DEMO_USER	DEMO-PRD-R	O	DemoProduct		L	Y e s
DEMO_USER	DEMO-SUP-R	O	DemoSupplier		L	Y e s
DEMO_WEBSITE	DemoCatalog-E	E	DemoCatalog		L	Y e s
DEMO_WEBSITE	DEMO-CLI-R	O	DemoClient		L	Y e s
DEMO_WEBSITE	DEMO-CTC-CU	O	DemoContact		C M	Y e s
DEMO_WEBSITE	DEMO-ORD-CU	O	DemoOrder		C M	Y e s
DEMO_WEBSITE	DEMO-PRD-R	O	DemoProduct		L	Y e s
DEMO_WEBSITE	DEMO-SUP-R	O	DemoSupplier		L	Y e s
DEMO_WEBSITE	DemoWebSite-E	E	DemoWebSite		L	Y e s
DEMO_WEBSITE	demows	E	demows		L	Y e s

OBJECT_TYPE:

- O: Object
- D: Domain
- E: External

FUNCTION:

- L: Read only
- C: Read and create
- M: Read and update
- S: Read and delete
- CM: Read, create and update
- CS: Read, create and delete
- MS: Read, update and delete
- CMS: Read, create, update and delete
- A: Action
- V: View

3.6. Function



Code	Object Code	Function	Action Name	View Name
DEMO-CLI-CU	DemoClient	CM		
DEMO-CLI-CUD	DemoClient	CMS		
DEMO-CLI-R	DemoClient	L		
DEMO-CTC-CU	DemoContact	CM		
DEMO-CTC-CUD	DemoContact	CMS		
DEMO-ORD-CU	DemoOrder	CM		
DEMO-ORD-CUD	DemoOrder	CMS		
DEMO-ORDAGD-EXT		L		
DEMO-PRD-CUD	DemoProduct	CMS		
DEMO-PRD-R	DemoProduct	L		
DEMO-SUP-CUD	DemoSupplier	CMS		
DEMO-SUP-R	DemoSupplier	L		
DEMO_CLIENTMAP-A	DemoClient	A	DEMO_CLIENTMAP	
DEMO_DECSTOCK-A	DemoProduct	A	DEMO_DECSTOCK	
DEMO_INCSTOCK-A	DemoProduct	A	DEMO_INCSTOCK	
DemoCatalog-E	DemoCatalog	L		
DemoContact-H	DemoContactHistoric	L		
DemoDomain-D	DemoDomain	L		
DemoOrder-H	DemoOrderHistoric	L		
DemoOrderAgenda-E	DemoOrderAgenda	L		
DemoPlaceNewOrder-E	DemoPlaceNewOrder	L		
DemoProduct-H	DemoProductHistoric	L		
DemoWebSite-E	DemoWebSite	L		
demows	demows	L		

FUNCTION:

- L: Read only
- C: Read and create
- M: Read and update
- S: Read and delete
- CM: Read, create and update
- CS: Read, create and delete
- MS: Read, update and delete
- CMS: Read, create, update and delete
- A: Action
- V: View





4. Administration

4.1. System parameter

Code
DEMO_PRD_LOWSTOCK_PERIOD
Value
90

Code
DEMO_PRD_LOWSTOCK_THRESHOLD
Value
10

Code
DEMO_VAT
Value
20.0

SYS_TYPE:
- APP: Application
- LFL: Look & Feel
- LOG: Logger
- EMO: Easy mode
- PRV: Private

4.2. Domain

Code	
DemoDomain	
Home page	DemoHome
Hide the home page	No
Icon	demo
Order	70000

Code	
DemoSubDomain	
Hide the home page	Yes
Icon	demo
Order	71000
Parent domaine	DemoDomain

4.3. Domain translation

Target Code	Lan	Translation
DemoDomain	ENU	Demo



DemoSubDomain	ENU	Others
DemoDomain	FRA	Démo
DemoSubDomain	FRA	Autres

4.4. Action

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_CLIENTMAP		O	0	No	FRT
URL	javascript:DemoClient.map()				
Image	map				
Plus menu	No				

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_CTC_STATUS-O-C		O	0	No	NUL
Plus menu	No				

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_CTC_STATUS-O-P		O	0	No	NUL
Plus menu	No				

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_CTC_STATUS-P-C		O	0	No	NUL
Plus menu	No				

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_DECSTOCK		H	0	No	BCK
Method	decreaseStock				
Image	icon/minus				
Plus menu	No				

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_INCSTOCK		O	0	Yes	BCK
Method	increaseStock				
Image	icon/plus				
Plus menu	No				

Name		T	Asynchronous ?	With confirmation	Exe
DEMO_ORD_STATUS-P-C		O	0	Yes	NUL



Plus menu	No
------------------	----

Name	T	Asynchronous ?	With confirmation	Exe
DEMO_ORD_STATUS-P-V	O	0	No	NUL

Plus menu	No
------------------	----

Name	T	Asynchronous ?	With confirmation	Exe
DEMO_ORD_STATUS-V-C	O	0	Yes	NUL

Plus menu	No
------------------	----

Name	T	Asynchronous ?	With confirmation	Exe
DEMO_ORD_STATUS-V-D	O	0	No	NUL

Plus menu	No
------------------	----

ACT_TYPE: - L: List - F: Form + Rows - A: List + Rows + Form - O: Form - I: Rows - B: List + Form - H: Hidden	ASYNC_MODE: - 0: Synchronous - 1: Asynchronous - 2: Standalone asynchronous	ACT_EXEC: - FRT: Front - BCK: Back - NUL: None
---	---	--

4.5. Action translation

Target Name	Lan	Translation
DEMO_CLIENTMAP	ENU	Locate on a map
DEMO_CTC_STATUS-O-C	ENU	Close
DEMO_CTC_STATUS-O-P	ENU	To be processed
DEMO_CTC_STATUS-P-C	ENU	Close
DEMO_DECSTOCK	ENU	Decrease stock
DEMO_INCSTOCK	ENU	Increase stock
DEMO_ORD_STATUS-P-C	ENU	Cancel
DEMO_ORD_STATUS-P-V	ENU	Validate
DEMO_ORD_STATUS-V-C	ENU	Cancel
DEMO_ORD_STATUS-V-D	ENU	Ship
DEMO_CLIENTMAP	FRA	Localiser sur une carte
DEMO_CTC_STATUS-O-C	FRA	Clore
DEMO_CTC_STATUS-O-P	FRA	A traiter
DEMO_CTC_STATUS-P-C	FRA	Clore
DEMO_DECSTOCK	FRA	Diminuer le stock
DEMO_INCSTOCK	FRA	Augmenter le stock
DEMO_ORD_STATUS-P-C	FRA	Annuler



DEMO_ORD_STATUS-P-V	FRA	Valider
DEMO_ORD_STATUS-V-C	FRA	Annuler
DEMO_ORD_STATUS-V-D	FRA	Envoyer

4.6. Link

Linked object (panel)		Reference	Cardinalit	V	X	C
DemoOrder		demoOrdClid	0,n	Yes	Yes	No
Main object	DemoClient					
Link order	10					
Deletion	C					

Linked object (panel)		Reference	Cardinalit	V	X	C
DemoContact		demoCtcClid	0,n	Yes	Yes	No
Main object	DemoClient					
Link order	20					
Deletion	C					

Linked object (panel)		Reference	Cardinalit	V	X	C
DemoContactHistoric		row_ref_id	0,n	Yes	No	No
Main object	DemoContact					
Link order	99990					
Deletion	C					

Linked object (panel)		Reference	Cardinalit	V	X	C
DemoContact		demoCtcOrdId	0,n	Yes	Yes	No
Main object	DemoOrder					
Link order	10					
Deletion	C					

Linked object (panel)		Reference	Cardinalit	V	X	C
DemoOrderHistoric		row_ref_id	0,n	Yes	No	No
Main object	DemoOrder					
Link order	99990					
Deletion	C					

Linked object (panel)		Reference	Cardinalit	V	X	C
DemoOrder		demoOrdPrdId	0,n	No	Yes	No



Main object	DemoProduct
Link order	20
Deletion	C

Linked object (panel)	Reference	Cardinalit	V	X	C
DemoProductHistoric	row_ref_id	0,n	Yes	No	No
Main object	DemoProduct				
Link order	99990				
Deletion	C				

Linked object (panel)	Reference	Cardinalit	V	X	C
DemoProduct	demoPrdSupId	0,n	Yes	Yes	No
Main object	DemoSupplier				
Link order	10				
Deletion	C				

Linked object (panel)	Reference	Cardinalit	V	X	C
DemoSupplier	demoSupUsrId	0,n	Yes	Yes	No
Main object	User				
Link order	1000				
Deletion	N				

DEL_CASCADE:
 - R: Impossible if referred
 - N: Unset the reference
 - C: Cascade delete
 - Z: Do not use

4.7. Static text

List	Code	Lan	Order
TEXT	DEMO_ADMIN	ANY	1
Value	Administrator		

List	Code	Lan	Order
TEXT	DEMO_USER	ANY	1
Value	User		

List	Code	Lan	Order
TEXT	DEMO_WEBSITE	ANY	1

**Value**

Website

List	Code	Lan	Order
TEXT	DEMO_EVENT_001	ENU	1

Value

[1]

List	Code	Lan	Order
TEXT	DEMO_ORDER_NUMBER	ENU	1

Value

Order #

List	Code	Lan	Order
TEXT	DEMO_PRD_ERR_INCREMENT	ENU	1

Value

Value for increment is not valid

List	Code	Lan	Order
TEXT	DEMO_PRD_STOCK_DECREASED	ENU	1

Value

Stock has been decreased

List	Code	Lan	Order
TEXT	DEMO_PRD_STOCK_INCREASED	ENU	1

Value

Stock has been increased to

List	Code	Lan	Order
TEXT	DEMO_RECEIPT	ENU	1

Value

Receipt

List	Code	Lan	Order
TEXT	DEMO_TREEVIEW	ENU	1

Value

Demo

List	Code	Lan	Order
TEXT	ERR_DEMO_ORD_QUANTITY	ENU	1

Value

Quantity must be higher than zero



List	Code	Lan	Order
TEXT	ERR_DEMO_PRD_LOWSTOCK	ENU	1
Value			
Stock is low			

List	Code	Lan	Order
TEXT	ERR_DEMO_PRD_STOCK	ENU	1
Value			
Stock is not sufficient			

List	Code	Lan	Order
TEXT	DEBUG_UI	FRA	1
Event Code	DCOREUI001		
Value			
User interface debug: [1]			

List	Code	Lan	Order
TEXT	DEMO_EVENT_001	FRA	1
Value			
[1]			

List	Code	Lan	Order
TEXT	DEMO_ORDER_NUMBER	FRA	1
Value			
Commande N°			

List	Code	Lan	Order
TEXT	DEMO_PRD_ERR_INCREMENT	FRA	1
Value			
La valeur pour l'incrément n'est pas valide			

List	Code	Lan	Order
TEXT	DEMO_PRD_STOCK_DECREASED	FRA	1
Value			
Le stock a été diminué			

List	Code	Lan	Order
TEXT	DEMO_PRD_STOCK_INCREASED	FRA	1
Value			
Le stock a été augmenté à			

List	Code	Lan	Order
TEXT	DEMO_RECEIPT	FRA	1



Value

Reçu

List	Code	Lan	Order
TEXT	DEMO_TREEVIEW	FRA	1

Value

Démo

List	Code	Lan	Order
TEXT	ERR_DEMO_ORD_QUANTITY	FRA	1

Value

La quantité doit être supérieure à zéro

List	Code	Lan	Order
TEXT	ERR_DEMO_PRD_LOWSTOCK	FRA	1

Value

Le stock est bas

List	Code	Lan	Order
TEXT	ERR_DEMO_PRD_STOCK	FRA	1

Value

Le stock est insuffisant

List	Code	Lan	Order
TEXT	LESS_ROWS	FRA	1

Value

Menos lineas

LANG_ALL:

- ANY: *
- ENU: English
- FRA: French

4.8. Translated list value

List	Code	Order	Language	Value
DEMO_CLI_TYPE	T1	1	ENU	External
DEMO_CLI_TYPE	T2	2	ENU	Internal
DEMO_CLI_TYPE	T3	3	ENU	Partner
DEMO_CLI_TYPE	T1	1	FRA	Externe
DEMO_CLI_TYPE	T2	2	FRA	Interne



DEMO_CLI_TYPE	T3	3	FR A	Partenaire
DEMO_COUNTRY	FR	1	EN U	France
DEMO_COUNTRY	UK	2	EN U	United Kingdom
DEMO_COUNTRY	SP	3	EN U	Spain
DEMO_COUNTRY	FR	1	FR A	France
DEMO_COUNTRY	UK	2	FR A	Royaume Uni
DEMO_COUNTRY	SP	3	FR A	Espagne
DEMO_CTC_CANAL	PHONE	1	EN U	Phone
DEMO_CTC_CANAL	EMAIL	2	EN U	E-mail
DEMO_CTC_CANAL	CHAT	3	EN U	Chat
DEMO_CTC_CANAL	WEB	4	EN U	Web site
DEMO_CTC_CANAL	PHONE	1	FR A	Téléphone
DEMO_CTC_CANAL	EMAIL	2	FR A	E-mail
DEMO_CTC_CANAL	CHAT	3	FR A	Chat
DEMO_CTC_CANAL	WEB	4	FR A	Site web
DEMO_CTC_STATUS	O	1	EN U	Open
DEMO_CTC_STATUS	P	2	EN U	Processing
DEMO_CTC_STATUS	C	2	EN U	Closed
DEMO_CTC_STATUS	O	1	FR A	Ouvert
DEMO_CTC_STATUS	C	2	FR A	Closed
DEMO_CTC_STATUS	P	2	FR A	En traitement
DEMO_CTC_SUBTYPE	DEFAULT	1	EN U	Default
DEMO_CTC_SUBTYPE	DEFAULT	1	FR A	Par défaut
DEMO_CTC_SUBTYPE_CMP	ORDISSUE	1	EN U	Order issue
DEMO_CTC_SUBTYPE_CMP	BILLISSUE	2	EN U	Billing issue
DEMO_CTC_SUBTYPE_CMP	ORDISSUE	1	FR A	Problème sur commande



DEMO_CTC_SUBTYPE_CMP	BILLISSUE	2	FR A	Problème facturation
DEMO_CTC_SUBTYPE_INF	ORDSTATUS	1	EN U	Order status
DEMO_CTC_SUBTYPE_INF	PRDINFO	2	EN U	Product information
DEMO_CTC_SUBTYPE_INF	ORDSTATUS	1	FR A	Order status
DEMO_CTC_SUBTYPE_INF	PRDINFO	2	FR A	Information produit
DEMO_CTC_SUBTYPE_REQ	ORDCANCEL	1	EN U	Order cancellation
DEMO_CTC_SUBTYPE_REQ	ORDCHANGE	2	EN U	Order change
DEMO_CTC_SUBTYPE_REQ	ORDCANCEL	1	FR A	Annulation commande
DEMO_CTC_SUBTYPE_REQ	ORDCHANGE	2	FR A	Modification commande
DEMO_CTC_TYPE	INF	1	EN U	Information
DEMO_CTC_TYPE	REQ	2	EN U	Request
DEMO_CTC_TYPE	CMP	3	EN U	Complaint
DEMO_CTC_TYPE	OTH	4	EN U	Other
DEMO_CTC_TYPE	INF	1	FR A	Information
DEMO_CTC_TYPE	REQ	2	FR A	Demande
DEMO_CTC_TYPE	CMP	3	FR A	Réclamation
DEMO_CTC_TYPE	OTH	4	FR A	Autre
DEMO_ORD_STATUS	P	1	EN U	Pending
DEMO_ORD_STATUS	V	2	EN U	Validated
DEMO_ORD_STATUS	D	3	EN U	Shipped
DEMO_ORD_STATUS	C	4	EN U	Cancelled
DEMO_ORD_STATUS	P	1	FR A	En attente
DEMO_ORD_STATUS	V	2	FR A	Validée
DEMO_ORD_STATUS	D	3	FR A	Envoyée
DEMO_ORD_STATUS	C	4	FR A	Annulée
DEMO_PRD_TYPE	LAPTOP	10	EN U	Laptop



DEMO_PRD_TYPE	DESKTOP	20	EN U	Desktop
DEMO_PRD_TYPE	TABLET	30	EN U	Tablet
DEMO_PRD_TYPE	SMARTPHONE	40	EN U	Smartphone
DEMO_PRD_TYPE	OTHER	50	EN U	Other
DEMO_PRD_TYPE	LAPTOP	10	FR A	PC portable
DEMO_PRD_TYPE	DESKTOP	20	FR A	PC de bureau
DEMO_PRD_TYPE	TABLET	30	FR A	Tablette
DEMO_PRD_TYPE	SMARTPHONE	40	FR A	Smartphone
DEMO_PRD_TYPE	OTHER	50	FR A	Autre

4.9. Linked list

Object	List field	Order	List of values	List code	Selected code Description	Linked field	Order	Linked list
DemoContact	demoCtcType	110	DEMO_CTC_TYPE	INF	Code INF	demoCtcSubType	120	DEMO_CTC_SUBTYPE_INF
DemoContact	demoCtcType	110	DEMO_CTC_TYPE	REQ	Code REQ	demoCtcSubType	120	DEMO_CTC_SUBTYPE_REQ
DemoContact	demoCtcType	110	DEMO_CTC_TYPE	CMP	Code CMP	demoCtcSubType	120	DEMO_CTC_SUBTYPE_CMP

4.10. Constraint

Name	Object Code	Order	T	Effects
DemoContact-C1	DemoContact	10	E	B
Expression				
true				

Name	Object Code	Order	T	Effects
DemoContact-C2	DemoContact	20	E	B
Expression				
![ISNEW]				

Name	Object Code	Order	T	Effects
DemoContact-C3	DemoContact	30	E	B
Expression				
[ISNEW]				



Name	Object Code	Order	T	Effects
DemoContact-C4	DemoContact	30	E	F;B
Description				
Hide subtype depending on type				
Expression				
true				

Name	Object Code	Order	T	Effects
DemoOrder-C1	DemoOrder	10	E	B
Expression				
true				

Name	Object Code	Order	T	Effects
DemoOrder-C2	DemoOrder	20	E	B
Expression				
true				

Name	Object Code	Order	T	Effects
DemoOrder-C3	DemoOrder	30	E	B
Expression				
[ISNEW] [STATUS] == "P"				

Name	Object Code	Order	T	Effects
DemoOrder-C4	DemoOrder	40	E	B
Expression				
![ISNEW] && [STATUS] != "C"				

Name	Object Code	Order	T	Effects
DemoOrder-C5	DemoOrder	50	E	B
Expression				
[STATUS] == "V"				

Name	Object Code	Order	T	Effects
DemoOrder-C6	DemoOrder	60	E	B



Expression

true

Name	Object Code	Order	T	Effects
DemoOrder-C7	DemoOrder	70	E	B

Expression

true

FIELD_CONST_TYPE:

- F: Field
- E: Expression
- M: Method

CONST_EFFECT:

- S: Static
- F: Front-end
- B: Back-end

4.11. Shared code

Name	Typ
DemoCommon	JSR
Source code	DemoCommon.java

Name	Typ
DemoTests	TST
Source code	DemoTests.java

SCRIPT_TYPE:

- JSR: Server code
- TST: Server code (unit tests)
- LIB: Java Library
- SQL: Script SQL
- OTH: Other

4.11.1. Script DemoCommon

code
<pre> package com.simplicite.commons.Demo; import java.io.ByteArrayOutputStream; import java.util.List; import com.lowagie.text.Document; import com.lowagie.text.Image; import com.lowagie.text.Paragraph; import com.lowagie.text.pdf.PdfPCell; import com.lowagie.text.pdf.PdfPTable; import com.simplicite.objects.Demo.DemoOrder; import com.simplicite.util.AppLog; import com.simplicite.util.Grant; import com.simplicite.util.ObjectField; import com.simplicite.util.Tool; import com.simplicite.util.tools.PDFTool; /** * Demo commons */ public class DemoCommon implements java.io.Serializable { private static final long serialVersionUID = 1L; /** * Check whether stock is low * @param grant Grant * @param prdId Product row ID * @param stock Current stock for product */ public static boolean isLowStock(Grant grant, String prdId, int stock) { // Get work instance for DemoOrder object DemoOrder ord = (DemoOrder)grant.getTmpObject("DemoOrder"); </pre>



code

```
// Set search filters (on the last N days)
ord.resetFilters();
ord.getField("demoOrdPrdId").setFilter(prdId);
int checkPeriod = grant.getIntParameter("DEMO_PRD_LOWSTOCK_PERIOD", 90);
ord.getField("demoOrdDate").setFilterDateMin(Tool.shiftDays(Tool.getCurrentDate(), -checkPeriod));

// Search
List<String[]> rows = ord.search();
AppLog.info(DemoCommon.class, "isLowStock", rows.size() + " orders found", grant);

// Iterate over search result to calculate total ordered quantity
int quantity = 0;
int quantityIndex = ord.getFieldIndex("demoOrdQuantity");
for (String[] row : rows)
    quantity += Tool.parseInt(row[quantityIndex], 10);
AppLog.info(DemoCommon.class, "isLowStock", "Total ordered quantity = " + quantity, grant);

// Stock is considered low if less than X% of total ordered quantity
AppLog.info(DemoCommon.class, "isLowStock", "Current stock = " + stock, grant);
int threshold = Math.round(((float)grant.getIntParameter("DEMO_PRD_LOWSTOCK_THRESHOLD", 10) / 100) * quantity);
AppLog.info(DemoCommon.class, "isLowStock", "Low stock threshold " + threshold, grant);
boolean lowStock = stock < threshold;
AppLog.info(DemoCommon.class, "isLowStock", "Low stock " + lowStock, grant);

return lowStock;
}

/**
 * Order receipt publication as PDF
 * @param ord Order object
 */
public static byte[] orderReceipt(DemoOrder ord) {
    try (ByteArrayOutputStream bos = new java.io.ByteArrayOutputStream()) {
        Document pdf = PDFTool.open(bos);

        // Logo
        pdf.add(PDFTool.getImageFromResource(ord.getGrant(), "DEMO_LOGO"));

        pdf.add(new Paragraph(ord.getGrant().T("DEMO_RECEIPT"), PDFTool.TITLE1));

        ObjectField f = ord.getField("demoOrdNumber");
        pdf.add(new Paragraph(f.getDisplay() + ": " + f.getValue(), PDFTool.TITLE2));
        f = ord.getField("demoOrdDate");
        pdf.add(new Paragraph(f.getDisplay() + ": " + ord.getGrant().toFormattedDate(f.getValue()));
        f = ord.getField("demoOrdDeliveryDate");
        pdf.add(new Paragraph(f.getDisplay() + ": " + ord.getGrant().toFormattedDatetime(f.getValue()));

        PdfPTable t = PDFTool.getTable(2, false);
        t.addCell(PDFTool.getHeaderCell(ord.getField("demoOrdCliId").getDisplay(), java.awt.Color.LIGHT_GRAY));
        t.addCell(PDFTool.getHeaderCell(ord.getField("demoOrdPrdId").getDisplay(), java.awt.Color.LIGHT_GRAY));

        PdfPCell c = PDFTool.getCell(null);
        f = ord.getField("demoOrdCliId.demoCliCode");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdCliId.demoCliFirstname");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdCliId.demoCliLastname");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));

        c.addElement(new Paragraph("\n"));

        f = ord.getField("demoOrdCliId.demoCliAddress1");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdCliId.demoCliAddress2");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdCliId.demoCliAddress3");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdCliId.demoCliZipCode");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdCliId.demoCliCountry");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        t.addCell(c);

        c = PDFTool.getCell(null);
        f = ord.getField("demoOrdPrdId.demoPrdSupId.demoSupName");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        String v = ord.getField("demoOrdPrdId.demoPrdSupId.demoSupLogo").getValue();
        if (!Tool.isEmpty(v)) {
            Image i = PDFTool.getImageFromDBDoc(ord.getGrant(), v);
            i.scaleAbsoluteWidth(100);
            i.setSpacingBefore(10);
            i.setSpacingAfter(10);
            c.addElement(i);
        }
        f = ord.getField("demoOrdPrdId.demoPrdReference");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        f = ord.getField("demoOrdPrdId.demoPrdName");
        c.addElement(new Paragraph(f.getDisplay() + ": " + f.getValue()));
        v = ord.getField("demoOrdPrdId.demoPrdPicture").getValue();
        if (!Tool.isEmpty(v)) {
            Image i = PDFTool.getImageFromDBDoc(ord.getGrant(), v);
            i.scaleAbsoluteWidth(150);
            i.setSpacingBefore(10);
            i.setSpacingAfter(10);
            c.addElement(i);
        }
    }
}
```



code

```
c.addElement(i);
}
t.addCell(c);

pdf.add(t);

f = ord.getField("demoOrdQuantity");
pdf.add(new Paragraph(f.getDisplay() + ": " + f.getValue(), PDFTool.TITLE1));
f = ord.getField("demoOrdUnitPrice");
pdf.add(new Paragraph(f.getDisplay() + ": " + ord.getGrant().toFormattedFloat(f.getValue(), 10, 2) + " Euros",
PDFTool.TITLE2));
f = ord.getField("demoOrdTotal");
pdf.add(new Paragraph(f.getDisplay() + ": " + ord.getGrant().toFormattedFloat(f.getValue(), 10, 2) + " Euros",
PDFTool.TITLE1));
f = ord.getField("demoOrdVAT");
pdf.add(new Paragraph(f.getDisplay() + " (" + ord.getGrant().toFormattedFloat(ord.getGrant().getParameter("DEMO_VAT"), 10, 2)
+ "%): " + ord.getGrant().toFormattedFloat(f.getValue(), 10, 2) + " Euros", PDFTool.TITLE2));

PDFTool.close(pdf);
return bos.toByteArray();
} catch (Exception e) {
AppLog.error(DemoCommon.class, "orderReceipt", "Unable to generate order receipt", e, ord.getGrant());
return null;
}
}
```

4.11.2. Script DemoTests

code

```
package com.simplicite.tests.Demo;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.fail;

import java.util.HashMap;

import org.junit.Test;


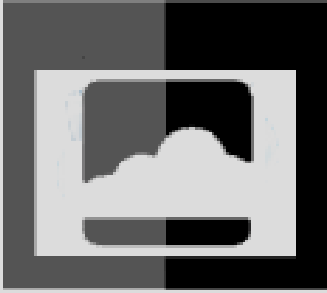
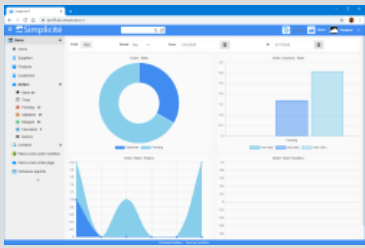
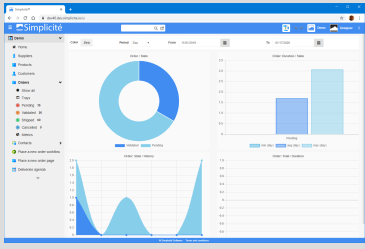



import com.simplicite.objects.Demo.DemoProduct;
import com.simplicite.util.Grant;
import com.simplicite.util.ObjectField;

/**
 * Demo unit tests
 */
public class DemoTests {
    /** Increment test */
    @Test
    public void testIncrement() {
        try {
            DemoProduct prd = (DemoProduct)Grant.getSystemAdmin().getTmpObject("DemoProduct");
            prd.setValues(prd.search().get(0), true);
            ObjectField s = prd.getField("demoPrdStock");
            int n = s.getInt(0);
            HashMap<String, String> params = new HashMap<>();
            params.put("demoPrdIncrement", String.valueOf(DemoProduct.DEFAULT_INCREMENT));
            prd.increaseStock(params);
            assertEquals(n + DemoProduct.DEFAULT_INCREMENT, s.getInt(0));
        } catch (Exception e) {
            fail(e.getMessage());
        }
    }
}
```



5. Interface

5.1. Resource

Disposition: default	ICO	ANY	demo	Yes		
Disposition: default	ICO	ANY	simplicite	Yes		
Disposition: default	IMG	ANY	demo-module	No		
Disposition: default	IMG	ANY	demo-module-full	No		
Disposition: default	IMG	ANY	DEMO_LOGO	Yes		
External object: DemoWebSite	ICO	ANY	FAVICON	No		FAVICON.ico
External object: DemoWebSite	IMG	ANY	LOADING	No		
External object: DemoWebSite	IMG	ANY	LOGO	No		



RESOURCE_TYPE: - IMG: Image - CSS: Style CSS - ICO: Object icon - JS: Javascript - HTML: HTML - MD: Markdown - PDF: PDF - SET: File set - OTHER: Other	LANG_ALL: - ANY: * - ENU: English - FRA: French
--	---

5.2. Main menu

Domain Code	Object Code	Process	Order	E
DemoDomain	DemoSupplier		70000	No
DemoDomain	DemoProduct		70010	No
DemoDomain	DemoClient		70020	No
DemoDomain	DemoOrder		70030	No
DemoDomain	DemoContact		70040	No
DemoDomain		DemoOrderCreate	70800	No
DemoDomain	DemoPlaceNewOrder		71010	No
DemoDomain	DemoOrderAgenda		71020	No

5.3. Shortcut

Name	URL	Target	Order	V	Icon	Shorthand
DemoProductNew	[EXPR:HTMLTool.getFormURL("DemoProduct", null, ObjectField.DEFAULT_ROW_ID, null)]	frame_work	100	1		
DemoClientNew	[EXPR:HTMLTool.getFormURL("DemoClient", null, ObjectField.DEFAULT_ROW_ID, null)]	frame_work	110	1		
DemoOrderNew	[EXPR:HTMLTool.getProcessStartURL("DemoOrderCreate")]	frame_work	120	1		
DemoWebSite	[EXPR:HTMLPage.getPublicExternalObjectURL("DemoWebSite")]	_blank	130	1	fas/globe	Alt+W
DemoDoc	[EXPR:HTMLPage.getExternalObjectURL("MDViewer", "doc=DEMO")]	_blank	140	1	fas/book	

BTN_VIS: - 1: Visible - 0: Hidden - P: Plus

5.4. Shortcut translation

Target Name	Lan	Translation
DemoClientNew	ENU	New client



DemoDoc	ENU	Demo doc
DemoOrderNew	ENU	New order
DemoProductNew	ENU	New product
DemoWebSite	ENU	Demo website
DemoClientNew	FRA	Nouveau client
DemoDoc	FRA	Doc démo
DemoOrderNew	FRA	Nouvelle commande
DemoProductNew	FRA	Nouveau produit
DemoWebSite	FRA	Site web démo

5.5. Search

Object Code	User Login	Name	P
DemoContact	designer	DemoContact-S1	Yes
Filters			
{"demoCtcStatus": "='O' or ='P'"}			

Object Code	User Login	Name	P
DemoOrder	designer	DemoOrder-S1	Yes
Filters			
{"demoOrdStatus": "P"}			

Object Code	User Login	Name	P
DemoOrder	designer	DemoOrder-S2	Yes
Filters			
{"demoOrdStatus": "V"}			

5.6. Search translation

Target Name	Target User Login	Target Object Code	Translation	La n
DemoContact-S1	designer	DemoContact	Ongoing contacts	ENU
DemoOrder-S1	designer	DemoOrder	Pending orders	ENU
DemoOrder-S2	designer	DemoOrder	Validated orders	ENU
DemoContact-S1	designer	DemoContact	Contacts en cours	FRA
DemoOrder-S1	designer	DemoOrder	Commandes en attente	FRA
DemoOrder-S2	designer	DemoOrder	Commandes validées	FRA

5.7. View



Name		Order
DemoHome		100
Icon code	demo	

Name		Order
DemoAdminHome		110
Theme Name	demo	

Name		Order
DemoUserHome		120
Theme Name	demo	

5.8. View translation

Target Name	Lan	Translation
DemoAdminHome	ENU	Demo
DemoHome	ENU	Demo
DemoUserHome	ENU	Demo
DemoAdminHome	FRA	Démo
DemoHome	FRA	Démo
DemoUserHome	FRA	Démo

5.9. Template

Name
DemoClient
Front template
<pre><div> <div class="row"> <div class="area col-sm-12" data-area="1"></div> </div> <div class="row"> <div class="area col-sm-6" data-area="2,3,4"></div> <div class="area col-sm-6"> <div id="hangout-button"></div> <div id="client-map" style="display: none; width: 500px; height: 450px;"> <iframe frameborder="0" name="gmap" scrolling="no" style="width: 100%; height: 100%;"></iframe> </div> </div> </div> </div></pre>

Name
DemoContact
Front template
<pre><div> <div class="row"> <div class="area col-sm-6" data-area="1:="></div> <div class="area col-sm-6" data-area="2,3:="></div> </div> <div class="row"> <div class="area col-sm-12" data-area="4:="></div> </div> </div></pre>

Name
DemoOrder



Front template

```
<div>
  <div class="row">
    <div class="area col-sm-6" data-area="1:"></div>
    <div class="area col-sm-6" data-area="2:"></div>
  </div>
  <div class="row">
    <div class="area col-sm-6" data-area="4:"></div>
    <div class="area col-sm-6" data-area="3:"></div>
  </div>
  <div class="row">
    <div class="area col-sm-12" data-area="5:"-></div>
  </div>
</div>
```

Name

DemoOrder-XML

Front template

```
<orders>
[BEGIN]
<order number="[VALUE:demoOrdNumber]" status="[VALUE:demoOrdStatus]">
  <date>[VALUE:demoOrdDate]</date>
  <product>
    <reference>[VALUE:demoOrdPrdId.demoPrdReference]</reference>
    <name>[VALUE:demoOrdPrdId.demoPrdName]</name>
    <supplier>[VALUE:demoPrdSupId.demoSupCode]</supplier>
  </product>
  <quantity>[VALUE:demoOrdQuantity]</quantity>
  <total>[VALUE:demoOrdTotal]</total>
  <tax>[VALUE:demoOrdVAT]</tax>
  <client>
    <code>[VALUE:demoOrdCliId.demoCliCode]</code>
    <name>[VALUE:demoOrdCliId.demoCliFirstname] [VALUE:demoOrdCliId.demoCliLastname]</name>
    <address>[VALUE:demoOrdCliId.demoCliAddress1]; [VALUE:demoOrdCliId.demoCliAddress2]; [VALUE:demoOrdCliId.demoCliAddress3];
[VALUE:demoOrdCliId.demoCliZipCode]; [VALUE:demoOrdCliId.demoCliCity]; [VALUE:demoOrdCliId.demoCliCountry]</address>
  </client>
</order>
[END]
</orders>
```

Name

DemoProduct

Front template

```
<div>
  <div class="row">
    <div class="area col-sm-12" data-area="1:"></div>
  </div>
  <div class="row">
    <div class="area col-sm-6" data-area="2:"></div>
    <div class="area col-sm-6">
      <div class="row">
        <div class="area col-sm-12" data-area="3:"></div>
      </div>
      <div class="row">
        <div class="area col-sm-12" data-area="4:+"></div>
      </div>
    </div>
  </div>
  <div class="row">
    <div class="area col-sm-12" data-area="5:"-></div>
  </div>
</div>
```

Name

DemoProduct-EMAIL-ENU

Front template

```
<h3>Hello,</h3>
<p>The stock is low for product:
<b>[VALUE:demoPrdReference]</b> = [VALUE:demoPrdStock]
<br/>Please order new ones!</p>
```

Name

DemoProduct-EMAIL-FRA



Front template

```
<h3>Bonjour,</h3>
<p>Le stock est bas pour le produit:
<b>[VALUE:demoPrdReference]</b> = [VALUE:demoPrdStock]
<br/>Merci d'en commander de nouveaux!</p>
```

Name

DemoSupplier

Front template

```
<div>
  <div class="row">
    <div class="area col-sm-8" data-area="1:="></div>
    <div class="area col-sm-4" data-area="2:="></div>
  </div>
  <div class="row">
    <div class="area col-sm-12" data-area="3:-"></div>
  </div>
</div>
```

5.10. Fields area

Name	Pos	Icon code
DemoClient-1	1	
Display title		
Yes		

Front template

```
<div class="row">
  <div class="col-sm-4">
    <div class="field" data-field="demoCliCode"></div>
  </div>
  <div class="col-sm-4">
    <div class="field" data-field="demoCliFirstname"></div>
  </div>
  <div class="col-sm-4">
    <div class="field" data-field="demoCliLastname"></div>
  </div>
</div>
```

Name	Pos	Icon code
DemoClient-2	2	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoCliAddress1"></div>
  <div class="field" data-field="demoCliAddress2"></div>
  <div class="field" data-field="demoCliAddress3"></div>
  <div class="row">
    <div class="col-sm-5">
      <div class="field" data-field="demoCliZipCode"></div>
      <div class="action" data-action="DEMO_CLIENTMAP"></div>
    </div>
    <div class="col-sm-7">
      <div class="field" data-field="demoCliCity"></div>
      <div class="field" data-field="demoCliCountry"></div>
    </div>
  </div>
  <div class="field" data-field="demoCliCoords"></div>
</div>
```

Name	Pos	Icon code
DemoClient-3	3	
Display title		
Yes		



Front template

```
<div>
  <div class="field" data-field="demoCliEmail"></div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoCliHomePhone"></div>
      <div class="field" data-field="demoCliMobilePhone"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoCliWorkPhone"></div>
      <div class="field" data-field="demoCliFax"></div>
    </div>
  </div>
</div>
```

Name	Pos	Icon code
DemoClient-4	4	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoCliType"></div>
  <div class="field" data-field="demoCliComments"></div>
</div>
```

Name	Pos	Icon code
DemoContact-1	1	
Display title		
Yes		

Front template

```
<div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoCtcDatetime"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoCtcCanal"></div>
    </div>
  </div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoCtcType"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoCtcSubType"></div>
    </div>
  </div>
  <div class="row">
    <div class="col-sm-8">
      <div class="field" data-field="demoCtcStatus"></div>
    </div>
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcPriority"></div>
    </div>
  </div>
</div>
```

Name	Pos	Icon code
DemoContact-2	2	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoCtcCliId"></div>
  <div class="field" data-field="demoCtcCliId__demoCliCode"></div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoCtcCliId__demoCliFirstname"></div>
    </div>
  </div>
</div>
```



```

</div>
<div class="col-sm-6">
  <div class="field" data-field="demoCtcCliId_demoCliLastname"></div>
</div>
</div>
<div class="field" data-field="demoCtcCliId_demoCliEmail"></div>
<div class="row">
  <div class="col-sm-6">
    <div class="field" data-field="demoCtcCliId_demoCliHomePhone"></div>
    <div class="field" data-field="demoCtcCliId_demoCliMobilePhone"></div>
  </div>
  <div class="col-sm-6">
    <div class="field" data-field="demoCtcCliId_demoCliWorkPhone"></div>
    <div class="field" data-field="demoCtcCliId_demoCliFax"></div>
  </div>
</div>
</div>
</div>

```

Name	Pos	Icon code
DemoContact-3	3	
Display title		
Yes		

Front template

```

<div>
  <div class="field" data-field="demoCtcOrdId"></div>
  <div class="row">
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcOrdId_demoOrdNumber"></div>
    </div>
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcOrdId_demoOrdDate"></div>
    </div>
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcOrdId_demoOrdStatus"></div>
    </div>
  </div>
  <div class="field" data-field="demoCtcOrdId_demoOrdCliId"></div>
  <div class="field" data-field="demoCtcOrdId_demoOrdPrdId"></div>
  <div class="field" data-field="demoCtcOrdId_demoOrdPrdId_demoPrdSupId"></div>
  <div class="field" data-field="demoCtcOrdId_demoOrdPrdId_demoPrdSupId_demoSupUsrId"></div>
  <div class="row">
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcOrdId_demoOrdPrdId_demoPrdReference"></div>
    </div>
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcOrdId_demoOrdPrdId_demoPrdName"></div>
    </div>
    <div class="col-sm-4">
      <div class="field" data-field="demoCtcOrdId_demoOrdQuantity"></div>
    </div>
  </div>
</div>

```

Name	Pos	Icon code
DemoContact-4	4	
Display title		
Yes		

Front template

```

<div class="row">
  <div class="col-sm-7">
    <div class="field" data-field="demoCtcComments"></div>
  </div>
  <div class="col-sm-5">
    <div class="field" data-field="demoCtcFile"></div>
  </div>
</div>

```

Name	Pos	Icon code
DemoOrder-1	1	
Display title		
Yes		



Front template

```
<div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdNumber"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdDate"></div>
    </div>
  </div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdStatus"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdDeliveryDate"></div>
    </div>
  </div>
</div>
```

Name	Pos	Icon code
DemoOrder-2	2	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoOrdCliId"></div>
  <div class="field" data-field="demoOrdCliId__demoCliCode"></div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdCliId__demoCliFirstname"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdCliId__demoCliLastname"></div>
    </div>
  </div>
  <div class="field" data-field="demoOrdCliId__demoCliEmail"></div>
  <div class="field" data-field="demoOrdCliId__demoCliAddress1"></div>
  <div class="field" data-field="demoOrdCliId__demoCliAddress2"></div>
  <div class="field" data-field="demoOrdCliId__demoCliAddress3"></div>
  <div class="field" data-field="demoOrdCliId__demoCliZipCode"></div>
  <div class="field" data-field="demoOrdCliId__demoCliCity"></div>
  <div class="field" data-field="demoOrdCliId__demoCliCountry"></div>
</div>
```

Name	Pos	Icon code
DemoOrder-3	3	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoOrdPrdId"></div>
  <div class="row">
    <div class="col-sm-5">
      <div class="field" data-field="demoOrdPrdId__demoPrdReference"></div>
    </div>
    <div class="col-sm-7">
      <div class="field" data-field="demoOrdPrdId__demoPrdName"></div>
    </div>
  </div>
  <div class="field" data-field="demoOrdPrdId__demoPrdPicture"></div>
  <div class="field" data-field="demoOrdPrdId__demoPrdSupId"></div>
  <div class="row">
    <div class="col-sm-5">
      <div class="field" data-field="demoOrdPrdId__demoPrdSupId__demoSupCode"></div>
    </div>
    <div class="col-sm-7">
      <div class="field" data-field="demoOrdPrdId__demoPrdSupId__demoSupName"></div>
    </div>
  </div>
  <div class="field" data-field="demoOrdPrdId__demoPrdSupId__demoSupLogo"></div>
  <div class="field" data-field="demoOrdPrdId__demoPrdSupId__demoSupUsrId"></div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdPrdId__demoPrdStock"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdPrdId__demoPrdUnitPrice"></div>
    </div>
  </div>
</div>
```



```
<div class="field" data-field="demoOrdPrdId__demoPrdUnitPrice"></div>
</div>
</div>
</div>
```

Name	Pos	Icon code
DemoOrder-4	4	
Display title		
Yes		

Front template

```
<div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdUnitPrice"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdQuantity"></div>
    </div>
  </div>
  <div class="row">
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdVAT"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoOrdTotal"></div>
    </div>
  </div>
</div>
```

Name	Pos	Icon code
DemoOrder-5	5	
Display title		
Yes		

Front template

```
<div class="field" data-field="demoOrdComments"></div>
```

Name	Pos	Icon code
DemoProduct-1	1	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoPrdSupId"></div>
  <div class="row">
    <div class="col-sm-5">
      <div class="field" data-field="demoPrdSupId__demoSupCode"></div>
    </div>
    <div class="col-sm-7">
      <div class="field" data-field="demoPrdSupId__demoSupName"></div>
    </div>
  </div>
  <div class="field" data-field="demoPrdSupId__demoSupLogo"></div>
  <div class="field" data-field="demoPrdSupId__demoSupUsrId"></div>
</div>
```

Name	Pos	Icon code
DemoProduct-2	2	
Display title		
Yes		



Front template

```
<div>
  <div class="row">
    <div class="col-sm-3">
      <div class="field" data-field="demoPrdReference"></div>
    </div>
    <div class="col-sm-6">
      <div class="field" data-field="demoPrdName"></div>
    </div>
    <div class="col-sm-3">
      <div class="field" data-field="demoPrdType"></div>
    </div>
  </div>
  <div class="field" data-field="demoPrdDescription"></div>
  <div class="field" data-field="demoPrdPicture"></div>
</div>
```

Name	Pos	Icon code
DemoProduct-3	3	
Display title		
Yes		

Front template

```
<div class="row">
  <div class="col-sm-6">
    <div class="field" data-field="demoPrdStock"></div>
    <div class="action" data-action="DEMO_INCSTOCK"></div>
  </div>
  <div class="col-sm-6">
    <div class="field" data-field="demoPrdUnitPrice"></div>
    <div class="field" data-field="demoPrdAvailable"></div>
  </div>
</div>
```

Name	Pos	Icon code
DemoProduct-4	4	
Display title		
Yes		

Front template

```
<div>
  <div class="field" data-field="demoPrdDocumentation"></div>
  <div class="field" data-field="demoPrdBrochure"></div>
  <div class="field" data-field="demoPrdOnlineDoc"></div>
</div>
```

Name	Pos	Icon code
DemoProduct-5	5	
Display title		
Yes		

Front template

```
<div class="field" data-field="demoPrdComments"></div>
```

Name	Pos	Icon code
DemoSupplier-1	1	
Display title		
Yes		

Front template

```
<div>
  <div class="row">
    <div class="col-sm-6">
```



```

    <div class="field" data-field="demoSupCode"></div>
  </div>
  <div class="col-sm-6">
    <div class="field" data-field="demoSupName"></div>
  </div>
</div>
<div class="field" data-field="demoSupDescription"></div>
<div class="row">
  <div class="col-sm-6">
    <div class="field" data-field="demoSupPhone"></div>
    <div class="field" data-field="demoSupWebsite"></div>
  </div>
  <div class="col-sm-6">
    <div class="field" data-field="demoSupFax"></div>
    <div class="field" data-field="demoSupEmail"></div>
  </div>
</div>
</div>

```

Name	Pos	Icon code
DemoSupplier-2	2	
Display title		
Yes		

Front template

```
<div class="field" data-field="demoSupLogo"></div>
```

Name	Pos	Icon code
DemoSupplier-3	3	
Display title		
Yes		

Front template

```

<div>
  <div class="field" data-field="demoSupUsrId"></div>
  <div class="field" data-field="demoSupUsrId_usr_login"></div>
  <div class="field" data-field="demoSupComments"></div>
</div>

```

5.11. Field area translation

Target Name	Lan	Translation
DemoClient-1	ENU	Identification
DemoClient-2	ENU	Address
DemoClient-3	ENU	Means of contact
DemoClient-4	ENU	Others
DemoContact-1	ENU	Identification
DemoContact-2	ENU	Client
DemoContact-3	ENU	Order
DemoContact-4	ENU	Details
DemoOrder-1	ENU	Identification
DemoOrder-2	ENU	Customer
DemoOrder-3	ENU	Product
DemoOrder-4	ENU	Order
DemoOrder-5	ENU	Details
DemoProduct-1	ENU	Supplier



DemoProduct-2	ENU	Identification
DemoProduct-3	ENU	Stock and pricing
DemoProduct-4	ENU	Marketing
DemoProduct-5	ENU	Details
DemoSupplier-1	ENU	Identification
DemoSupplier-2	ENU	Logo
DemoSupplier-3	ENU	Others
DemoClient-1	FRA	Identification
DemoClient-2	FRA	Adresse
DemoClient-3	FRA	Moyens de contact
DemoClient-4	FRA	Autres
DemoContact-1	FRA	Identification
DemoContact-2	FRA	Client
DemoContact-3	FRA	Commande
DemoContact-4	FRA	Details
DemoOrder-1	FRA	Identification
DemoOrder-2	FRA	Client
DemoOrder-3	FRA	Produit
DemoOrder-4	FRA	Commande
DemoOrder-5	FRA	Details
DemoProduct-1	FRA	Fournisseur
DemoProduct-2	FRA	Identification
DemoProduct-3	FRA	Stock et prix
DemoProduct-4	FRA	Marketing
DemoProduct-5	FRA	Détails
DemoSupplier-1	FRA	Identification
DemoSupplier-2	FRA	Logo
DemoSupplier-3	FRA	Autres

5.12. Field style

Object or *	Field or *	Value or *	Min value	Max value	HTML decoration	Icon image
*	demoCtcPriority	0				icon/blank
*	demoCtcPriority	1				icon/tick
DemoProduct	demoPrdAvailable	0				icon/blank
DemoProduct	demoPrdAvailable	1				icon/tick

5.13. Publication



Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoContact	DemoContact-Excel	L	1	No	ANY	Excel publication example	METH
Forced MIME type	xlsx						
Method	printExcel						

Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoOrder	DemoOrder-PDF	O	1	No	ANY	Receipt	METH
Forced MIME type	pdf						
Method	printReceipt						

Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoOrder	DemoOrder-XML	L	1	No	ANY	XML publication example	TEMPL
Forced MIME type	xml						
Template Name	DemoOrder-XML						

Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoProduct	DemoProduct-EMAIL	X	1	No	ENU	Low stock email	TEMPL
Template Name	DemoProduct-EMAIL-ENU						

Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoProduct	DemoProduct-EMAIL	X	1	No	FRA	Email stock bas	TEMPL
Template Name	DemoProduct-EMAIL-FRA						

Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoProduct	DemoProduct-Word	E	1	Yes	ANY	Brochure	METH
Forced MIME type	docx						
Method	printCatalog						

Object Code	Code	Usage	V	G	Lang	Translation	Type
DemoSupplier	DemoSupplier-CATALOG	L	1	No	ANY	Catalog	FILE
Forced MIME type	html						
Template file	DemoSupplier-CATALOG.html						

PRT_USAGE: - OLM: Everywhere - O: On object only	BTN_VIS: - 1: Visible - 0: Hidden	LANG_ALL: - ANY: * - ENU: English
--	---	---



- L: On list only
 - M: For mailings
 - OL: On object and list
 - OM: On object and for mailing
 - LM: On list and for mailing
 - E: Export
 - X: Other usage

- P: Plus

- FRA: French

5.14. Tree view

Name	Search child objects automatically
DemoClientTreeview	0
DemoSupplierTreeview	0

TRV_AUTOSEARCH:

- 0: Manual
 - 1: All
 - 2: Links only

5.15. Node

Tree Name	Level	Open by default	P
DemoClientTreeview	10	No	Yes
Business object	DemoClient		

Tree Name	Level	Open by default	P
DemoClientTreeview	10-10	No	Yes
Business object	DemoContact		
Joined field	demoCtcClild		
Parent node Level	10		

Tree Name	Level	Open by default	P
DemoClientTreeview	10-20	No	Yes
Business object	DemoOrder		
Joined field	demoOrdClild		
Parent node Level	10		

Tree Name	Level	Open by default	P
DemoSupplierTreeview	10	No	No
Business object	DemoSupplier		

Tree Name	Level	Open by default	P
DemoSupplierTreeview	10-10	No	No
Business object	DemoProduct		
Joined field	demoPrdSupld		



Parent node Level	10
--------------------------	----

Tree Name	Level	Open by default	P
DemoSupplierTreeview	10-10-10	No	Yes
Business object	DemoOrder		
Joined field	demoOrdPrdId		
Parent node Level	10-10		

5.16. Tree view translation

Target Name	Lan	Translation
DemoClientTreeview	ENU	Customer tree view
DemoSupplierTreeview	ENU	Supplier tree view
DemoClientTreeview	FRA	Vue en arbre du client
DemoSupplierTreeview	FRA	Vue en arbre du fournisseur

5.17. Pivot table

Name	Object Code	Default function	G	V
DemoOrder-TC1	DemoOrder	S	Yes	1
Default precision	0			
Subtotals ?	No			
Color of total	#CFE2F3			

Name	Object Code	Default function	G	V
DemoOrder-TC2	DemoOrder	S	Yes	1
Default precision	2			
Subtotals ?	Yes			
Color of total	#E4E4E4			

Name	Object Code	Default function	G	V
DemoOrder-TC3	DemoOrder	S	Yes	1
Default precision	0			
Subtotals ?	No			
Color of total	#D9EAD3			

CTB_FUNCTION: - T: Text - S: Sum - P: Product - A: Algebraic average - G: Geometric average - L: Min - H: Max - F: Formula	BTN_VIS: - 1: Visible - 0: Hidden - P: Plus
---	---



5.18. Pivot table translation

Target Name	Lan	Translation
DemoOrder-TC1	ENU	Activity
DemoOrder-TC2	ENU	Revenue
DemoOrder-TC3	ENU	Quantities
DemoOrder-TC1	FRA	Activité
DemoOrder-TC2	FRA	Chiffre d'affaire
DemoOrder-TC3	FRA	Quantités

5.19. Agenda

Name	Object Code	Open days	Start	End h	F	Date field	Label field
DemoOrderAgenda	DemoOrder	1;2;3;4; 5;6;7	08:00	18:00	No	demoOrdDeliveryDate	demoOrdStatus
Day Quantum	60						

AGENDA_DAYS: - 1: Monday - 2: Tuesday - 3: Wednesday - 4: Thursday - 5: Friday - 6: Saturday - 7: Sunday	AGENDA_QUANTUM: - 5: 5 min - 10: 10 min - 15: 15 min - 20: 20 min - 30: 30 min - 60: 1 h - 90: 1 h 30 - 120: 2 h - 180: 3 h - 240: 4 h - 480: 8 h - 720: 12 h
---	---

5.20. Place map

Name	Object	Coordinates field Logical name	Label 1 field Logical name
DemoClients	DemoClient	demoCliCoords	demoCliPlacemapLabel
Label 2 field Logical name	demoCliAddress1		
Label 3 field Logical name	demoCliCity		



6. Business process

6.1. Business process

Name		Code	T
DemoOrderCreate		ORDC	0
Max duration	0		
Duration unit	D		
Store data on exit	No		
Depth persistence	0		
Model	DemoWorkflow		
Image			

PCS_TYPE: - 0: Screen workflow - 1: Human tasks	PCS_UNIT: - Y: Year - M: Month - D: Day - H: Hour - I: Minute - S: Second	DEL_CASCADE: - R: Impossible if referred - N: Unset the reference - C: Cascade delete - Z: Do not use
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6.2. Process translation

Target Name	Lan	Translation
DemoOrderCreate	ENU	Place a new order workflow



DemoOrderCreate	FRA	Processus nouvelle commande
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6.3. Activity

Process	Step	Name	T	R	U
DemoOrderCreate	ORDC-000	Begin	B	N	No
DemoOrderCreate	ORDC-100	ClientSelect	C	N	Yes
DemoOrderCreate	ORDC-200	SupplierSelect	C	E	Yes
DemoOrderCreate	ORDC-210	ProductSelect	C	E	Yes
DemoOrderCreate	ORDC-300	OrderCreate	N	N	Yes
DemoOrderCreate	ORDC-999	End	E	N	No

<p>ACY_TYPE:</p> <ul style="list-style-type: none"> - B: Begin - E: End - R: Search - N: New - U: Update - D: Delete - S: Service call - C: Select single - M: Select multiple - P: Split parallel - J: Join synchronize - I: Condition - X: External page - G: Message - Z: Sub-Process 	<p>ACY_REVERS:</p> <ul style="list-style-type: none"> - N: Irreversible - O: Update without forward impact - E: Update with forward erasing 	<p>PCS_UNIT:</p> <ul style="list-style-type: none"> - Y: Year - M: Month - D: Day - H: Hour - I: Minute - S: Second
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6.4. Activity translation

Target Step	Target Process Name	Lan	Translation
ORDC-000	DemoOrderCreate	ENU	Begin
ORDC-100	DemoOrderCreate	ENU	Select client
ORDC-200	DemoOrderCreate	ENU	Select supplier
ORDC-210	DemoOrderCreate	ENU	Select product
ORDC-300	DemoOrderCreate	ENU	Order creation
ORDC-999	DemoOrderCreate	ENU	End
ORDC-000	DemoOrderCreate	FRA	Début
ORDC-100	DemoOrderCreate	FRA	Sélection du client
ORDC-200	DemoOrderCreate	FRA	Sélection du fournisseur
ORDC-210	DemoOrderCreate	FRA	Sélection du produit
ORDC-300	DemoOrderCreate	FRA	Création commande
ORDC-999	DemoOrderCreate	FRA	Fin

6.5. Activity link

Process	From Step	From Name	To Step	To Name
DemoOrderCreate	ORDC-000	Begin	ORDC-100	ClientSelect
DemoOrderCreate	ORDC-100	ClientSelect	ORDC-200	SupplierSelect



DemoOrderCreate	ORDC-200	SupplierSelect	ORDC-210	ProductSelect
DemoOrderCreate	ORDC-210	ProductSelect	ORDC-300	OrderCreate
DemoOrderCreate	ORDC-300	OrderCreate	ORDC-999	End

6.6. Activity data

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-100	ClientSelect	Constraint	Mandatory	1
Value	true				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-100	ClientSelect	Object	Name	1
Value	DemoClient				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-200	SupplierSelect	Constraint	Mandatory	1
Value	true				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-200	SupplierSelect	Object	Name	1
Value	DemoSupplier				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-210	ProductSelect	Constraint	Mandatory	1
Value	true				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-210	ProductSelect	Filter	demoPrdSupld	1
Value	[ORDC-200.Field.row_id]				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-210	ProductSelect	Object	Name	1
Value	DemoProduct				

Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-300	OrderCreate	Field	demoOrdCliId	100



Value	[ORDC-100.Field.row_id]
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Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-300	OrderCreate	Field	demoOrdPrdId	200

Value	[ORDC-210.Field.row_id]
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Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-300	OrderCreate	Object	Name	1

Value	DemoOrder
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Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-999	End	Forward	PARAM:1	1

Value	[ORDC-300.Field.row_id]
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Activity Process Name	Activity Step	Activity Name	Group	Name	Order
DemoOrderCreate	ORDC-999	End	Forward	Page	1

Value	[EXPR:HTMLTool.getFormURL("DemoOrder", null, "[PARAM:1]", null)]
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6.7. State

List	Status Code	Label	E
DEMO_CTC_STATUS	C	Closed	Yes
Terminal	Yes		
Read only fields	Yes		
Direct access via menu	Yes		

List	Status Code	Label	E
DEMO_CTC_STATUS	O	Open	Yes
Terminal	No		
Read only fields	No		
Direct access via menu	Yes		

List	Status Code	Label	E
DEMO_CTC_STATUS	P	Processing	Yes
Terminal	No		
Read only fields	No		
Direct access via menu	Yes		



List	Status Code	Label	E
DEMO_ORD_STATUS	C	Cancelled state	Yes
Terminal	Yes		
Read only fields	Yes		
Direct access via menu	Yes		

List	Status Code	Label	E
DEMO_ORD_STATUS	D	Shipped state	Yes
Terminal	Yes		
Read only fields	Yes		
Direct access via menu	Yes		

List	Status Code	Label	E
DEMO_ORD_STATUS	P	Pending state	Yes
Terminal	No		
Read only fields	No		
Direct access via menu	Yes		

List	Status Code	Label	E
DEMO_ORD_STATUS	V	Validated state	Yes
Terminal	No		
Read only fields	No		
Direct access via menu	Yes		

6.8. State transition

Name	List of values	From state	List of values	To state
DEMO_CTC_STATUS-C-O	DEMO_CTC_STATUS	C	DEMO_CTC_STATUS	O
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_CTC_STATUS-O-C	DEMO_CTC_STATUS	O	DEMO_CTC_STATUS	C
Action Name	DEMO_CTC_STATUS-O-C			
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_CTC_STATUS-O-P	DEMO_CTC_STATUS	O	DEMO_CTC_STATUS	P



Name	List of values	From state	List of values	To state
O-P				
Action Name	DEMO_CTC_STATUS-O-P			
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_CTC_STATUS-P-C	DEMO_CTC_STATUS	P	DEMO_CTC_STATUS	C
Action Name	DEMO_CTC_STATUS-P-C			
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_CTC_STATUS-P-O	DEMO_CTC_STATUS	P	DEMO_CTC_STATUS	O
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-C-P	DEMO_ORD_STATUS	C	DEMO_ORD_STATUS	P
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-C-V	DEMO_ORD_STATUS	C	DEMO_ORD_STATUS	V
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-P-C	DEMO_ORD_STATUS	P	DEMO_ORD_STATUS	C
Notification Name	DemoOrderCancellation			
Action Name	DEMO_ORD_STATUS-P-C			
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-P-V	DEMO_ORD_STATUS	P	DEMO_ORD_STATUS	V
Action Name	DEMO_ORD_STATUS-P-V			



Enabled
Yes

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-V-C	DEMO_ORD_STATUS	V	DEMO_ORD_STATUS	C
Notification Name	DemoOrderCancellation			
Action Name	DEMO_ORD_STATUS-V-C			
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-V-D	DEMO_ORD_STATUS	V	DEMO_ORD_STATUS	D
Notification Name	DemoOrderDelivery			
Action Name	DEMO_ORD_STATUS-V-D			
Enabled				
Yes				

Name	List of values	From state	List of values	To state
DEMO_ORD_STATUS-V-P	DEMO_ORD_STATUS	V	DEMO_ORD_STATUS	P
Enabled				
Yes				

6.9. Help

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-100	ClientSelect	FRA
Abstract			
Veuillez choisir un client			

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-100	ClientSelect	ENU
Abstract			
Please select a client			

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-200	SupplierSelect	FRA
Abstract			
Veuillez choisir un fournisseur			

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-200	SupplierSelect	ENU



Abstract

Please select a supplier

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-210	ProductSelect	FRA

Abstract

Veillez choisir un produit

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-210	ProductSelect	ENU

Abstract

Please select a product

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-300	OrderCreate	FRA

Abstract

Veillez indiquer une quantité et, <u>si besoin</u>, ajouter un commentaire

Process	Activity Step	Activity Name	Lan
DemoOrderCreate	ORDC-300	OrderCreate	ENU

Abstract

Please enter a quantity and, <u>if required</u>, add some comments

LANG: - ENU: English - FRA: French
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6.10. Process permission

Group	Process	Grant
DEMO_ADMIN	DemoOrderCreate	N;R;C
DEMO_USER	DemoOrderCreate	N;R;C

GRANT_PCS: - N: Instantiate permission - R: Read only - C: Cancel permission

6.11. Activity permission

Group	Process	Step	Activity	Grant
DEMO_ADMIN	DemoOrderCreate	ORDC-000	Begin	R;W
DEMO_ADMIN	DemoOrderCreate	ORDC-100	ClientSelect	R;W
DEMO_ADMIN	DemoOrderCreate	ORDC-200	SupplierSelect	R;W



DEMO_ADMIN	DemoOrderCreate	ORDC-210	ProductSelect	R; W
DEMO_ADMIN	DemoOrderCreate	ORDC-300	OrderCreate	R; W
DEMO_ADMIN	DemoOrderCreate	ORDC-999	End	R; W
DEMO_USER	DemoOrderCreate	ORDC-000	Begin	R; W
DEMO_USER	DemoOrderCreate	ORDC-100	ClientSelect	R; W
DEMO_USER	DemoOrderCreate	ORDC-200	SupplierSelect	R; W
DEMO_USER	DemoOrderCreate	ORDC-210	ProductSelect	R; W
DEMO_USER	DemoOrderCreate	ORDC-300	OrderCreate	R; W
DEMO_USER	DemoOrderCreate	ORDC-999	End	R; W

GRANT_ACT:
 - R: Read only
 - W: Write permission
 - C: Cancel permission

6.12. Alert

Name		E	Actions to launch	Quant
DemoOrderCancellation		Yes	M	1
Media	E			

Name		E	Actions to launch	Quant
DemoOrderDelivery		Yes	M	1
Media	E			

ALERT_ACTION:
 - M: Send a message
 - P: Cancel process
 - A: Cancel activity
 - C: Compensate process

ALERT_MEDIA:
 - E: Email
 - L: Log
 - S: SMS
 - P: Social post
 - A: Slack
 - T: Trello



7. Document

7.1. Bookshelf

Name		Access permission
B-demoCtcFile		No
Field	demoCtcFile	

7.2. Document index translation

Target Name	Lan	Translation
B-demoCtcFile	ENU	B-demoCtcFile
B-demoCtcFile	FRA	B-demoCtcFile