

SmartProject (SP9)

BPA Delivery 7 for V5R19 (V5.7)

Implementation Guide



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Chapter 1: Introduction

The purpose of this document is to help the reader understand how to use the Demo DB and implement project on the existing Database with the SmarTeam BPA SMARTPROJECT.

What is SMARTPROJECT?

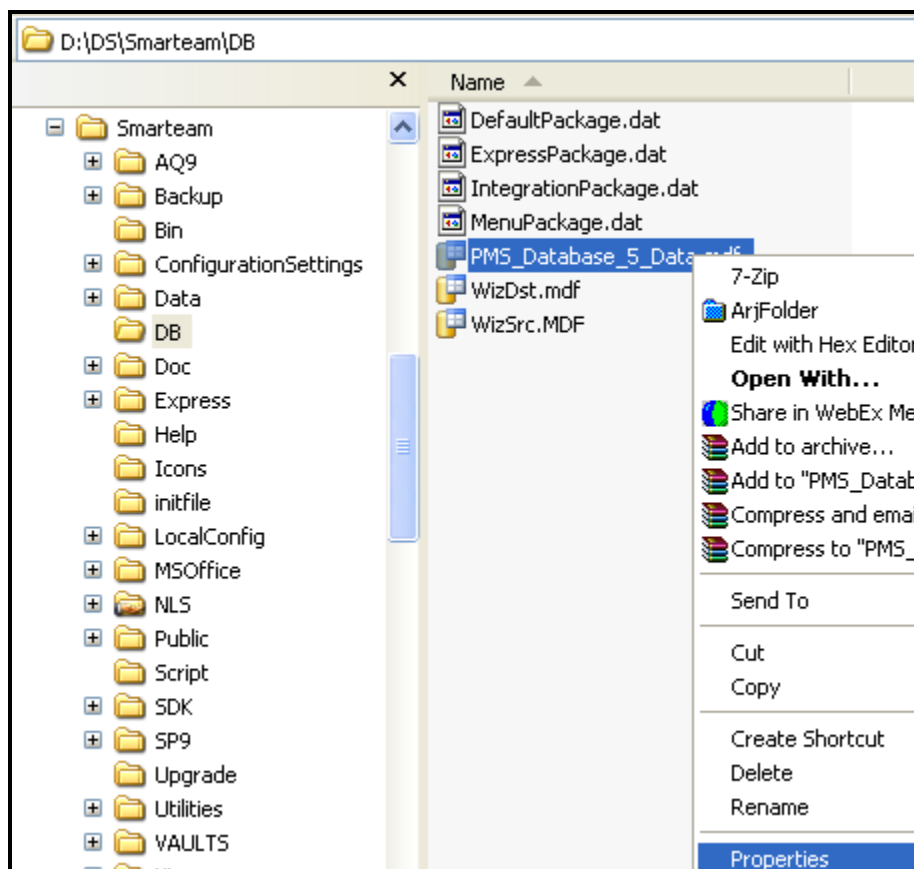
SMARTPROJECT is a Project Management tool upon SMARTEAM WEB EDITOR.

Chapter 2: Usage of Demo database

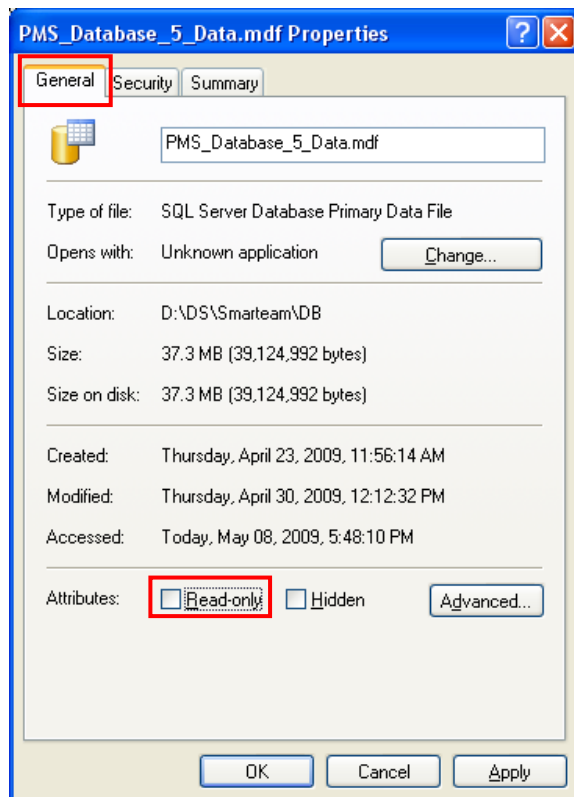
If you want to run SMARTPROJECT application with the Demo database which is provided in the setup, you need to attach Demo DB.

Attach the demo database installed in the DB directory of your installation directory. Use Database connection Manager Tool to make the attachment.

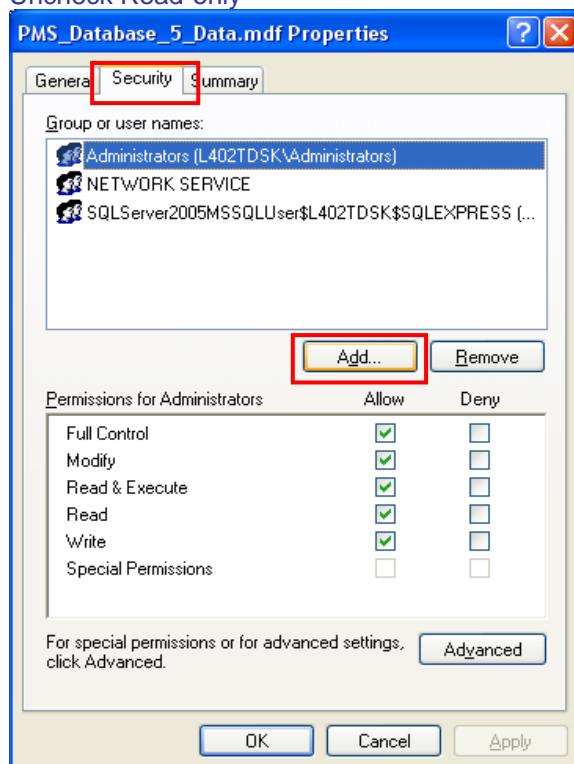
a. Attach Demo Database



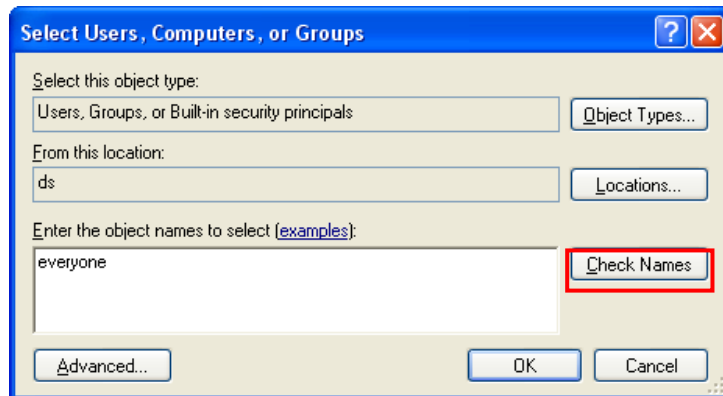
Select Properties



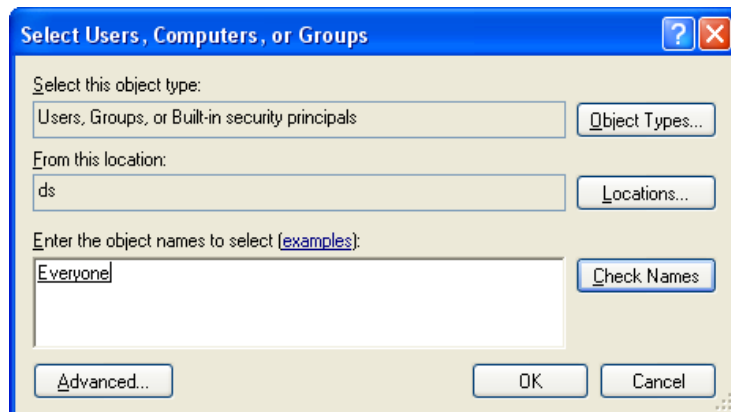
Uncheck Read-only



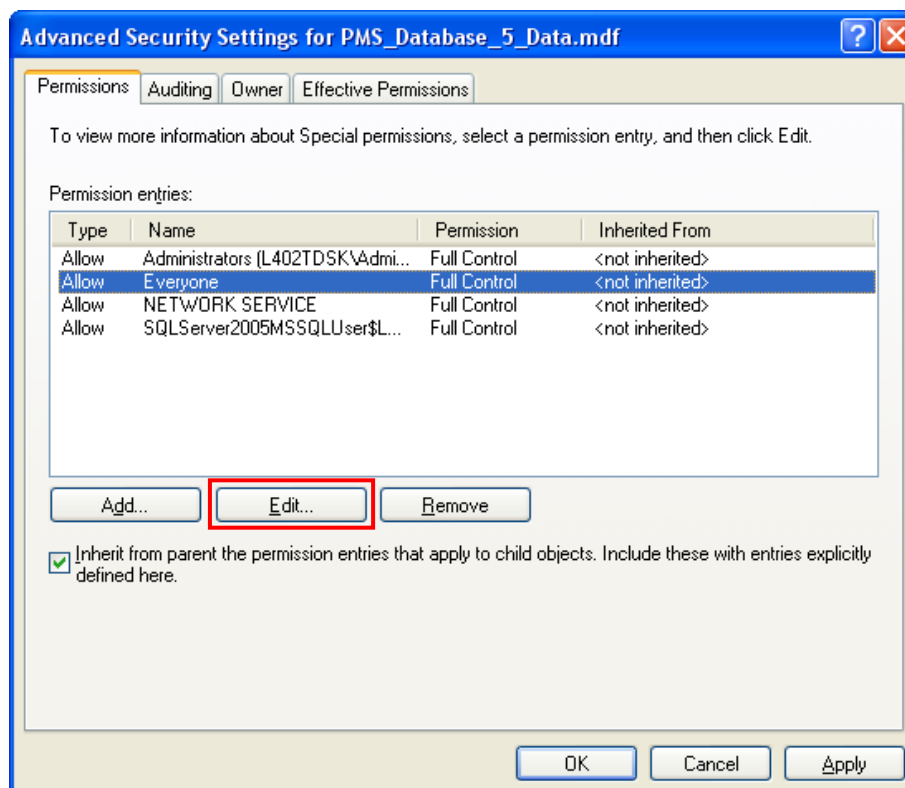
Select Add



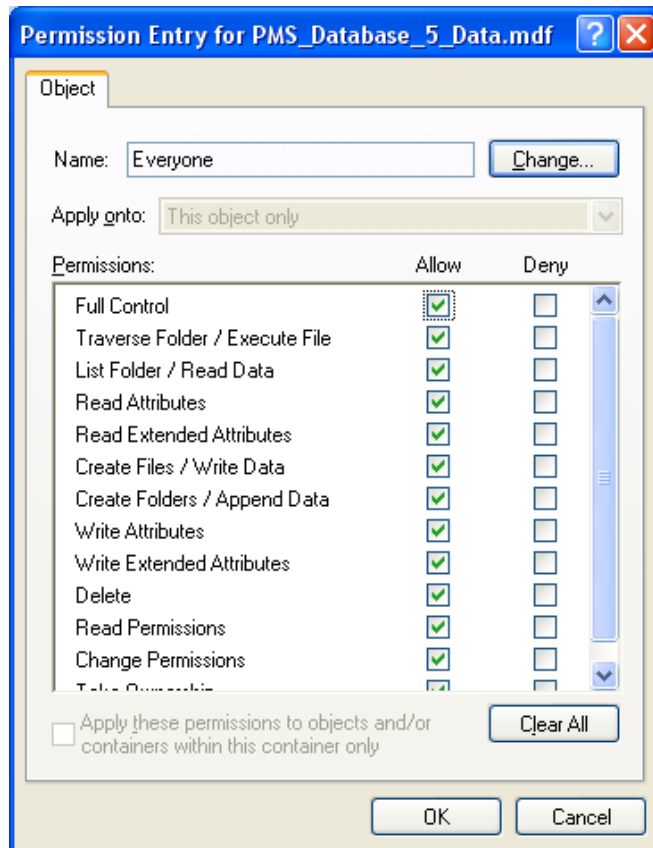
Enter everyone and click on Check Names button



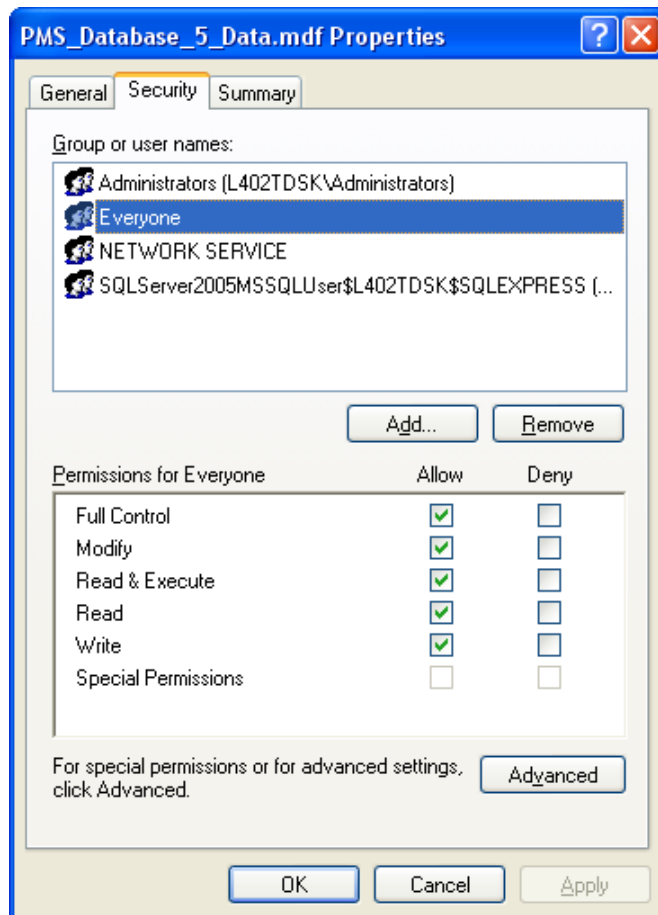
Click on OK button



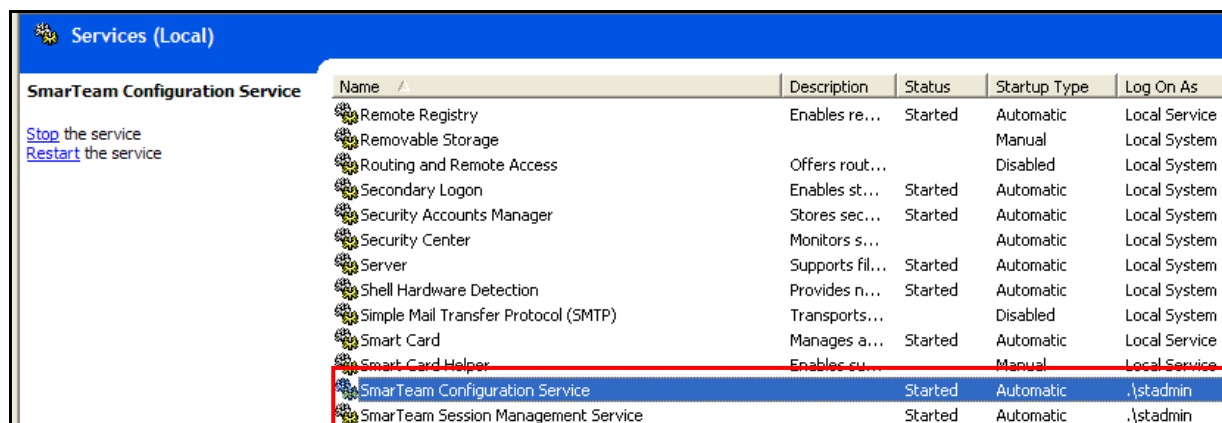
Select Everyone and Edit it



Allow full control, Click on OK.



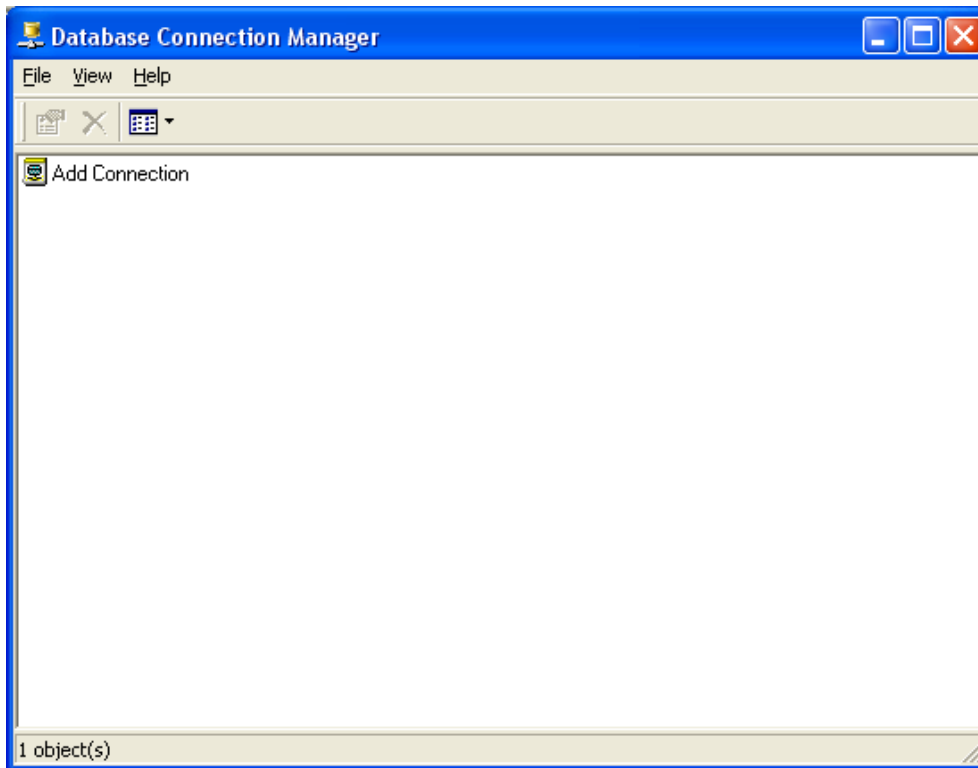
Apply changes. Click on OK



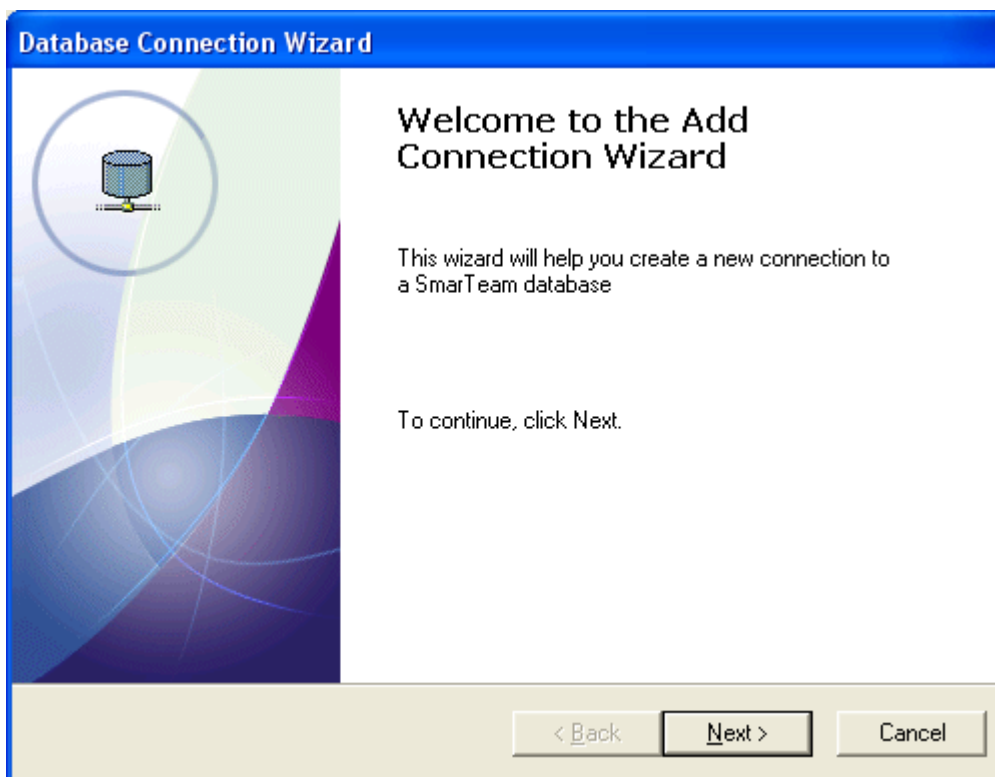
Restart two services : SmarTeam Configuration Service & SmarTeam Session Management Service



Launch Database Connection Manager



Double click on Add Connection



Click on Next

Database Connection Wizard

Database Type
Select the appropriate database type

Please select your database type from the list below. If your database type is not listed here, select Custom

☐ Create a connection string to an existing database

Database Type:

☒ Attach a new SQL Server database file to the server and connect to it

< Back Next > Cancel

Select Attach a new SQL Server database file, click on Next

Database Connection Wizard

Database Server
Select the destination database server

Select the server where the new database will reside and enter the database administrator login name and password

Server Name: Refresh

☐ Windows Authentication

☒ SQL Server Authentication

Login Name:

Password:

< Back Next > Cancel

Select SQL Server Authentication, enter Login Name and Password, Click on Next

Database Connection Wizard

New Database Details
Enter database file and database name

Select the MDF file you want to attach and enter a name for the newly created database

Database file: Browse...

Database name:

< Back Next > Cancel

Click on Browse

Open

Look in: DB

- PMS_Database_5_Data.mdf
- WizDst.mdf
- WizSrc.MDF

File name: Open

Files of type: MSDE Databases File (*.mdf) Cancel

Select DB


Database Connection Wizard

New Database Details
Enter database file and database name

Select the MDF file you want to attach and enter a name for the newly created database

Database file:

Database name:

 The database file you selected is already used by database PMS_Database_5_Data.

☒ Detach the current database and use this file instead

Select Detach the current database and use this file instead, Click on Next


Database Connection Wizard

New Database Details
Enter database file and database name

Select the MDF file you want to attach and enter a name for the newly created database

Database file:

Database name:

 The database file was successfully attached to the server. Click Next to continue.

Click on Next

Database Connection Wizard

Database Connection String
Enter the connection details

A connection string contains the information required to connect to a specific database.
Enter the connection string or click Build to have the connection string built for you.

Connection String:

Provider=SQLOLEDB.1;Persist Security Info=False;User
ID=SMARTTEAM;Initial
Catalog=PMS_Database_5_Data;Data

Build...

< Back Next > Cancel

Click on Build

Data Link Properties

Provider Connection Advanced All

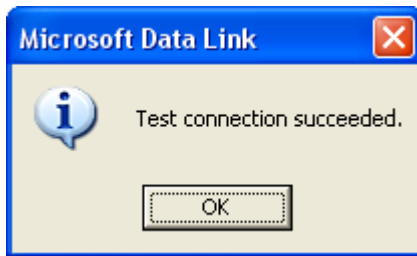
Specify the following to connect to SQL Server data:

- Select or enter a server name:
L402TDSK\SQLEXPRESS Refresh
- Enter information to log on to the server:
☐ Use Windows NT Integrated security
☒ Use a specific user name and password:
 User name: SMARTTEAM
 Password:
☐ Blank password ☐ Allow saving password
- ☒ Select the database on the server:
 PMS_Database_5_Data
☐ Attach a database file as a database name:
 PMS_Database_5_Data
 Using the filename:
 ...

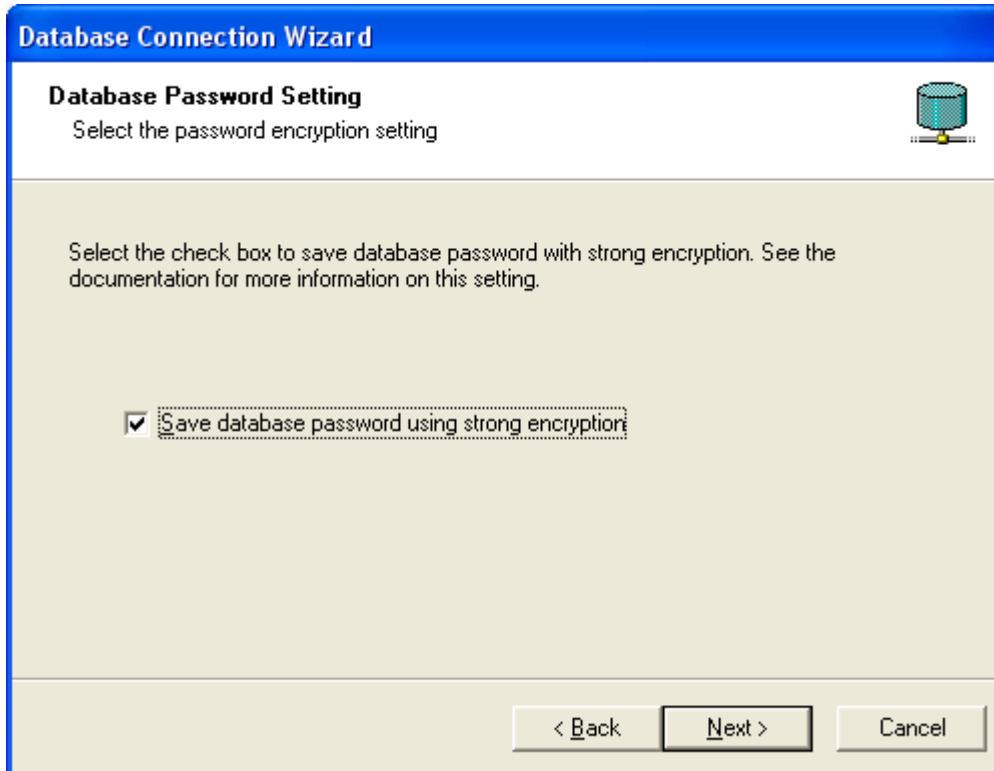
Test Connection

OK Cancel Help

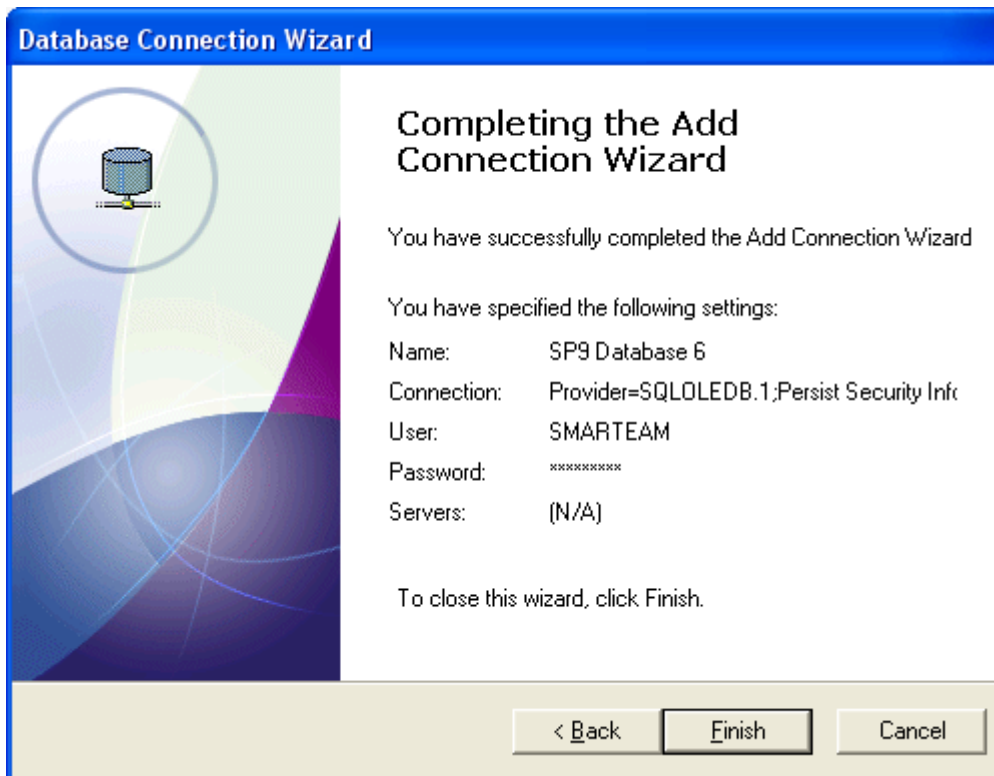
Click on Test Connection



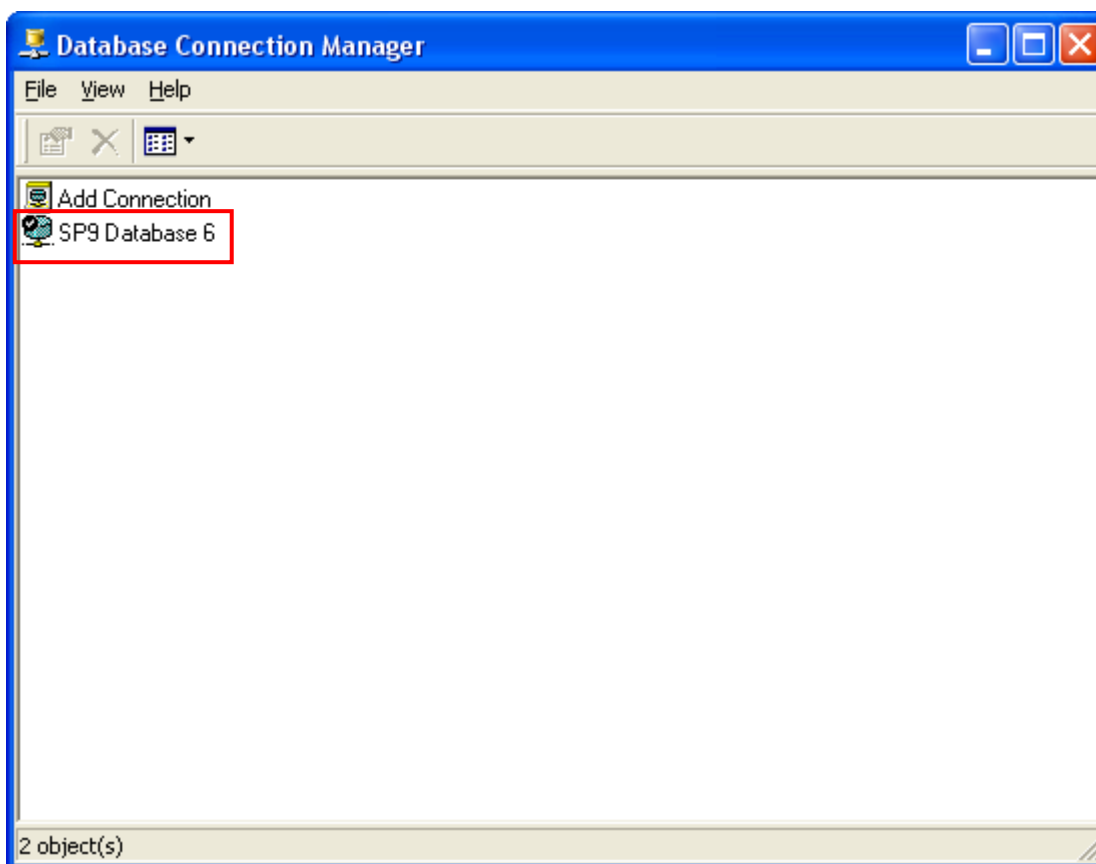
Click on OK. Click on OK. Click on Next



Click on Next

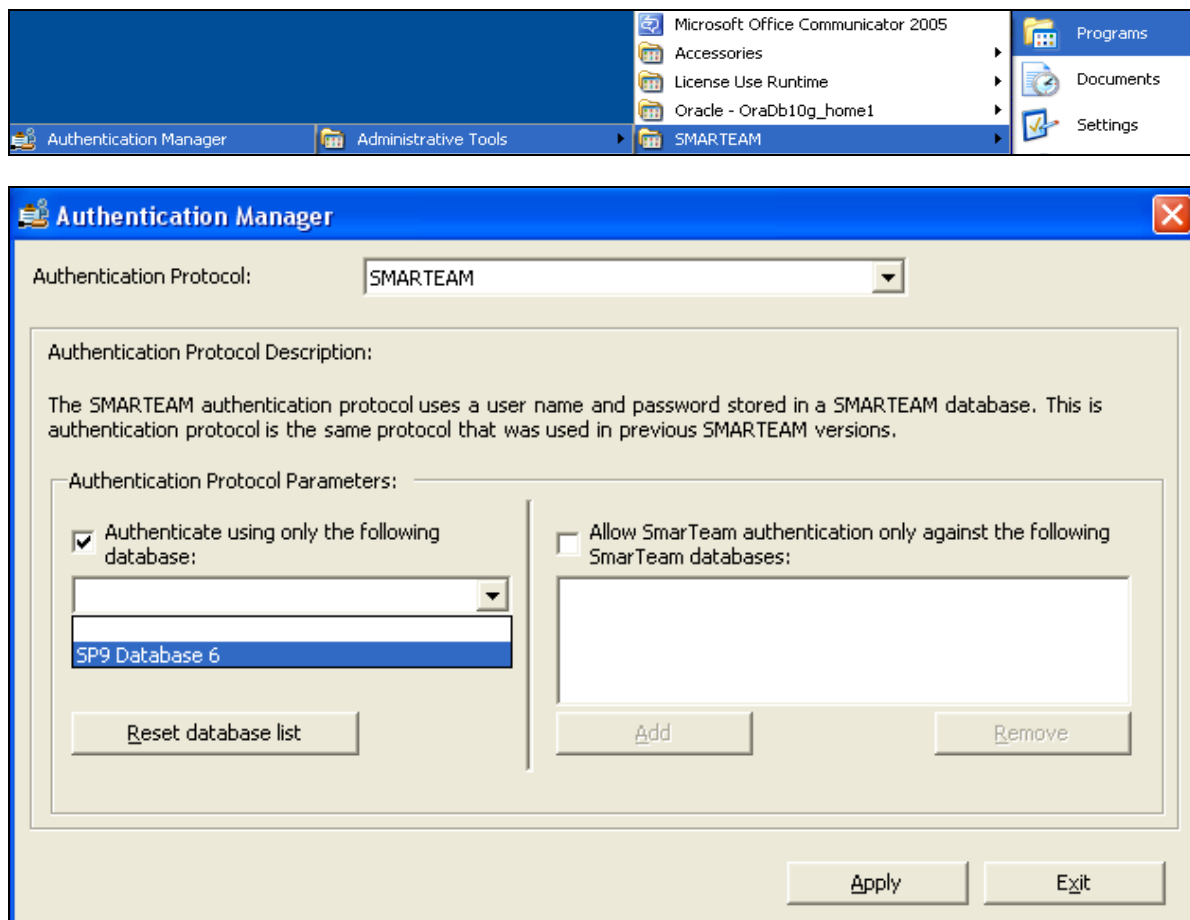


Click on Finish

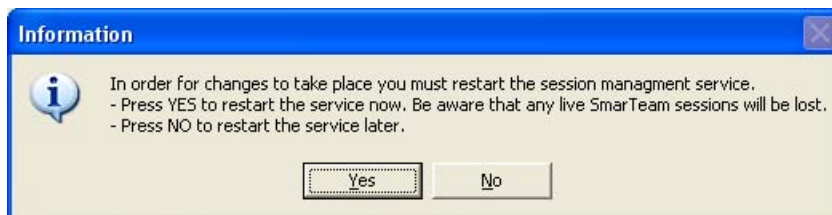


Database is connected. Close the window

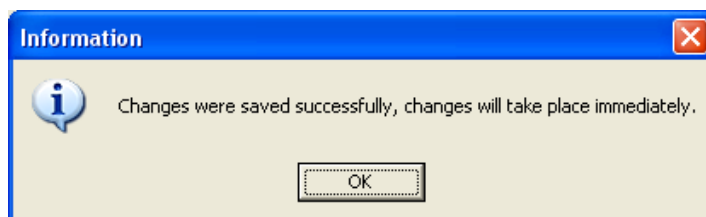
b. Select Database for Authentication



Authenticate Database. Apply changes.



Click on Yes.



Click on OK. Click Exit

Chapter 3: Implementation of SMARTPROJECT on an existing database

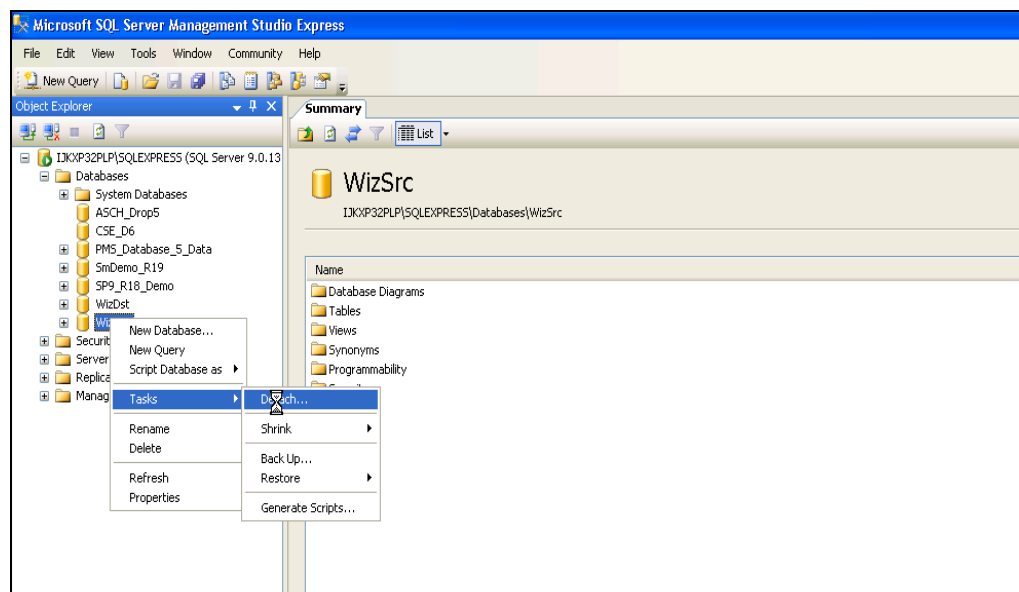
This chapter describes the steps that must be performed to implement the BPA SMARTPROJECT on top of PLM database. IF you need to implement it on top of another database, follow the same steps, only the screenshot will probably be different.

Note: The WizSrc database will not be provided along with the setup. It will be provided only if required by the customer. Hence the Wizsrc DB will not be copied in the SmarTeam\DB directory as it is not present in the setup.

1. Data Model Source (WizSrc)

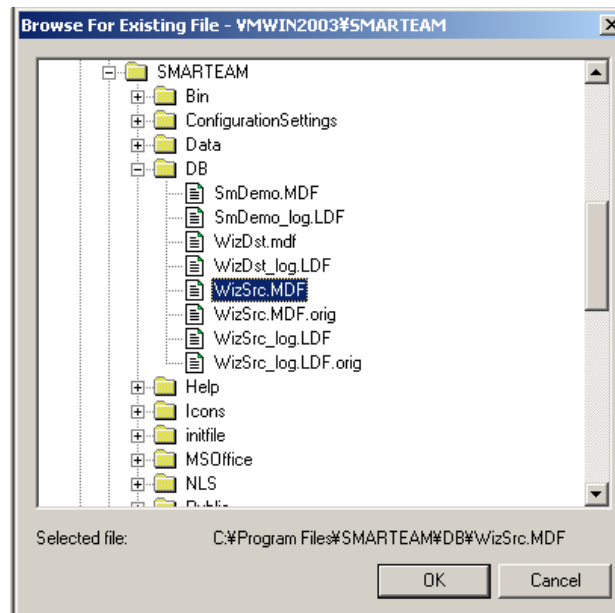
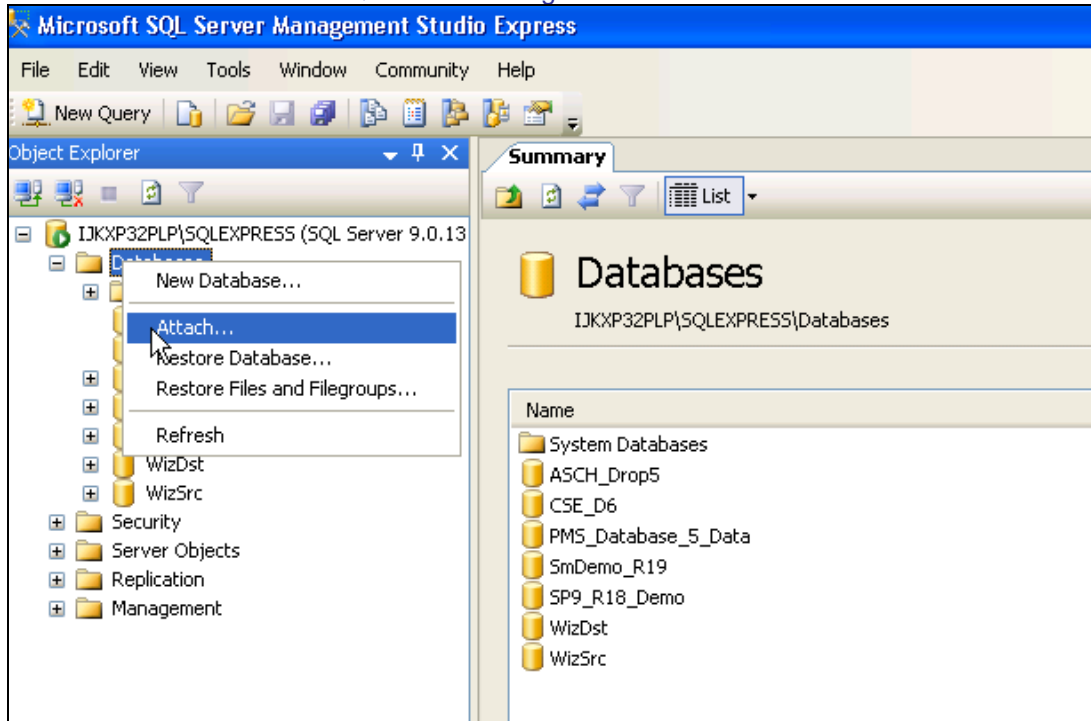
a. In case you have SQL Server Management Studio

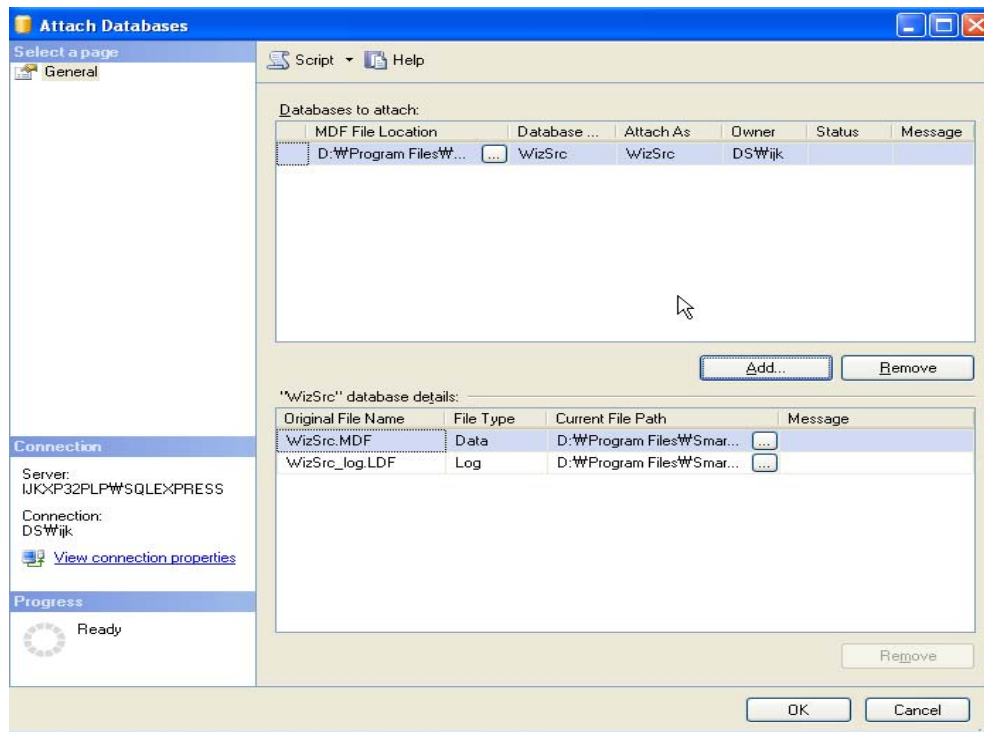
1. Check that a WizSrc.mdf file was copied in the DB directory
2. Detach the original one in SQL Server Management Studio



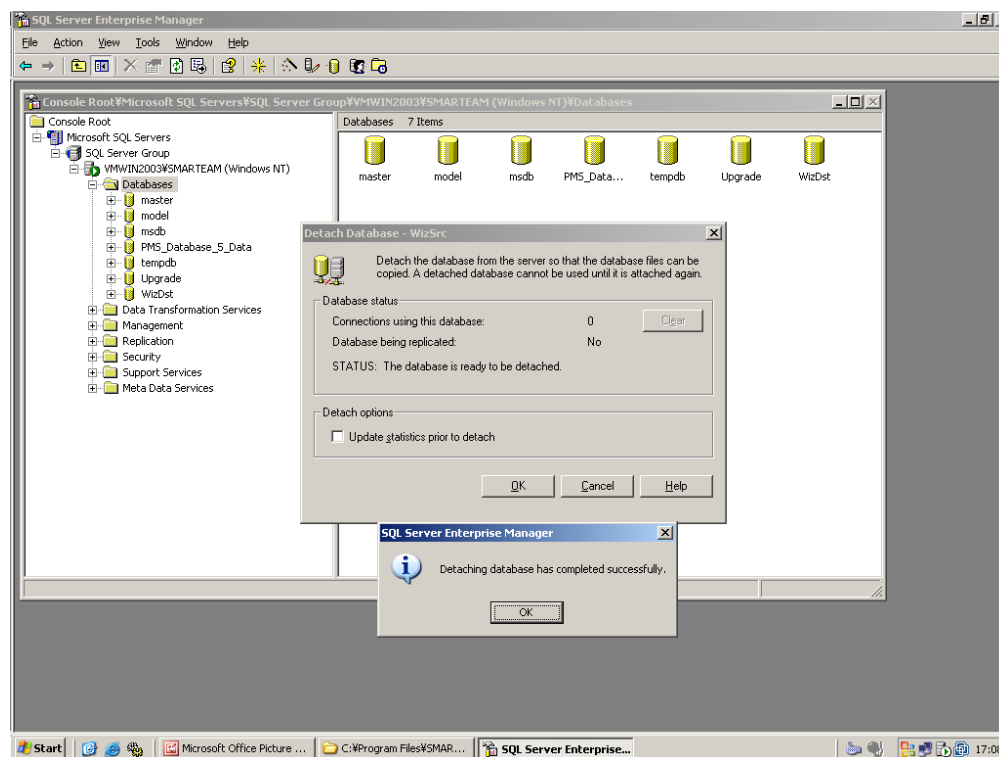
3. Replace the original one with the new one

4. Attach the new one in SQL Server Management Studio

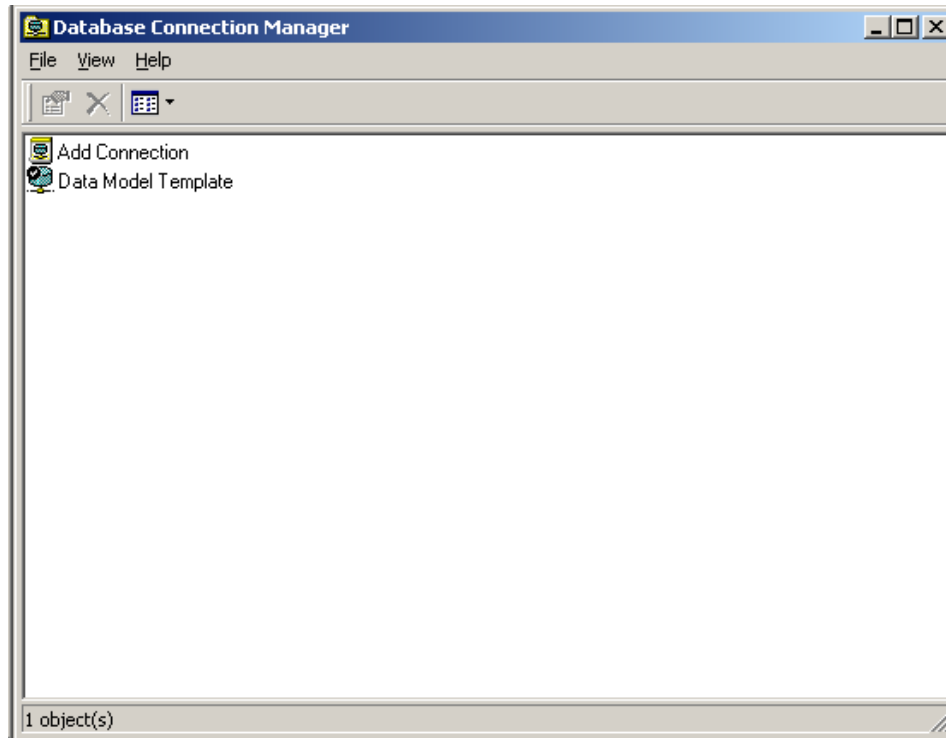




5. Detach again the database



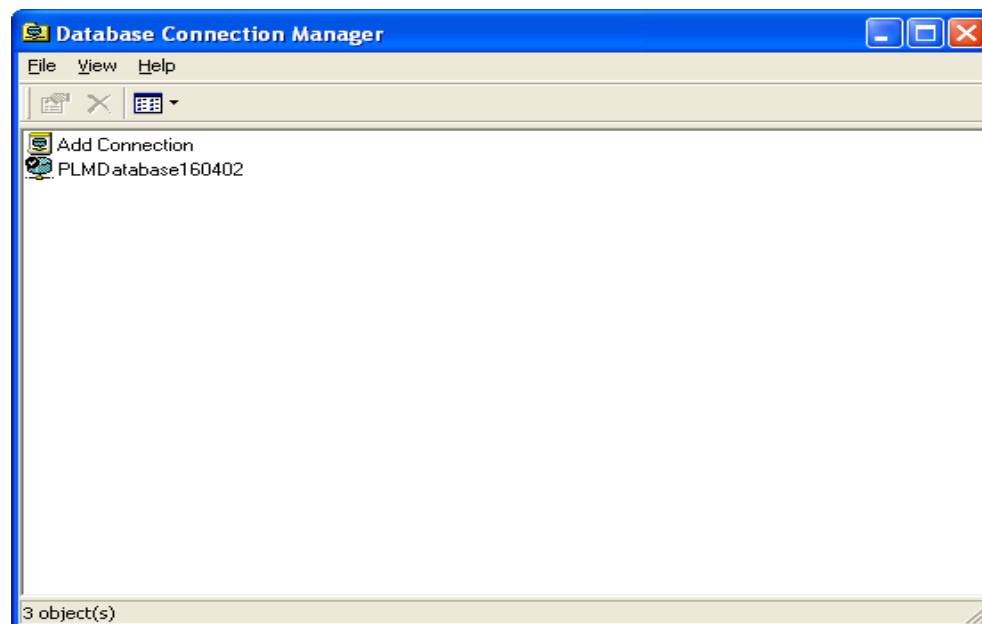
6. Attach the Wizsrc with Database Connection Manager



7. Delete this newly created connection (Delete, not Detach)

b. In case you don't have SQL Server Management Studio

By default, a standard WizSrc database is already connected to Smarteam. But, if you open the Database connection manager, you will not see any WizSrc displayed, as shown below:



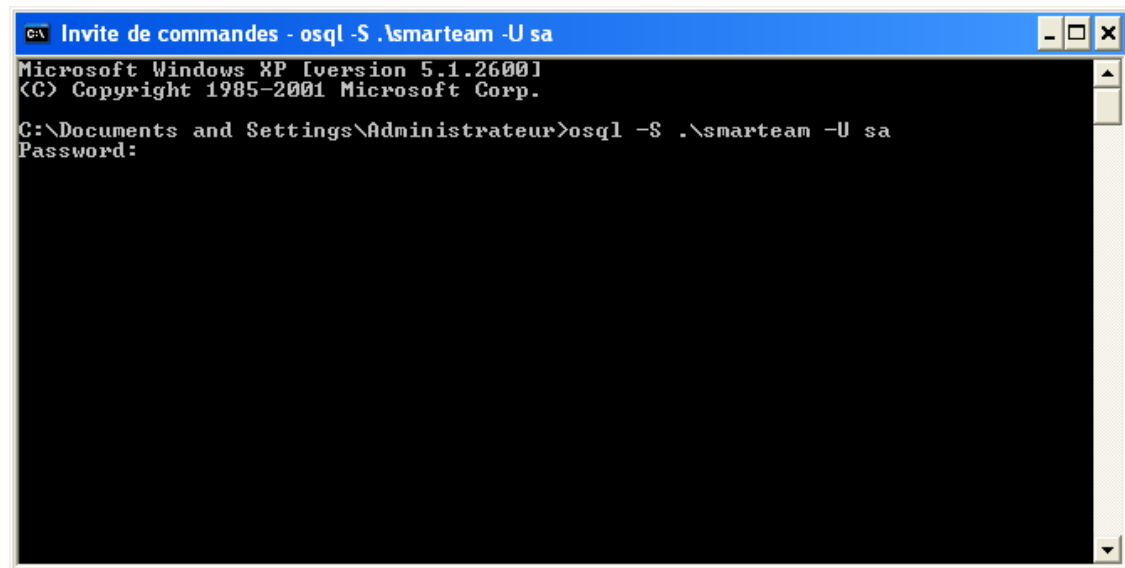
The WizSrc database cannot be found here.

To disconnect it, you will need to use command lines.

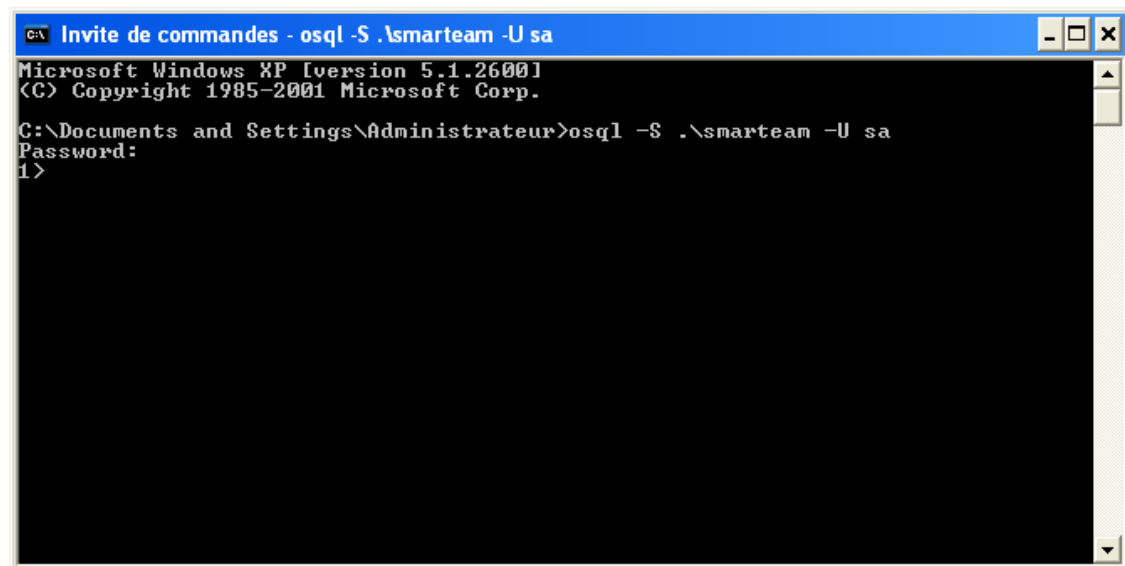
- open a cmd window : click on "start"->"execute", then type "cmd" and press "enter"
- Type the following command:

Osql -S .\smarteam -U sa

"Sa" is the user name generally used. If you have set another one, you may type it instead.
You may then get the following window:



- Type the password that's prompted. Usually "sa" or "smarteam"
- You should get the following prompt :

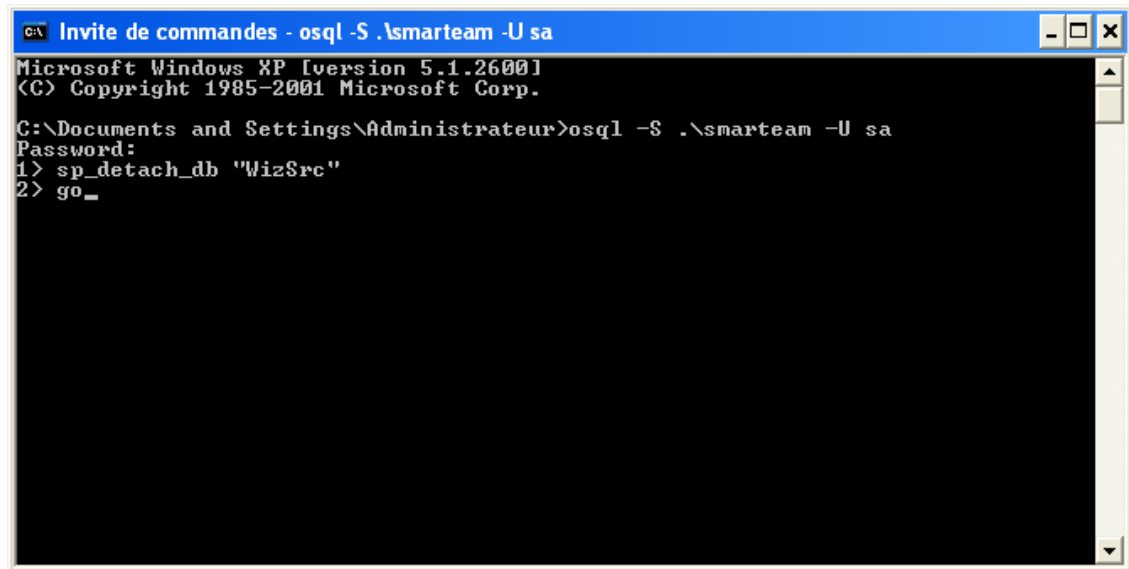


- Then at this prompt, type the following instruction and press enter.

sp_detach_db "WizSrc"

Here, "WizSrc" is the name of your WizSrc database. Do not forget the quotes.

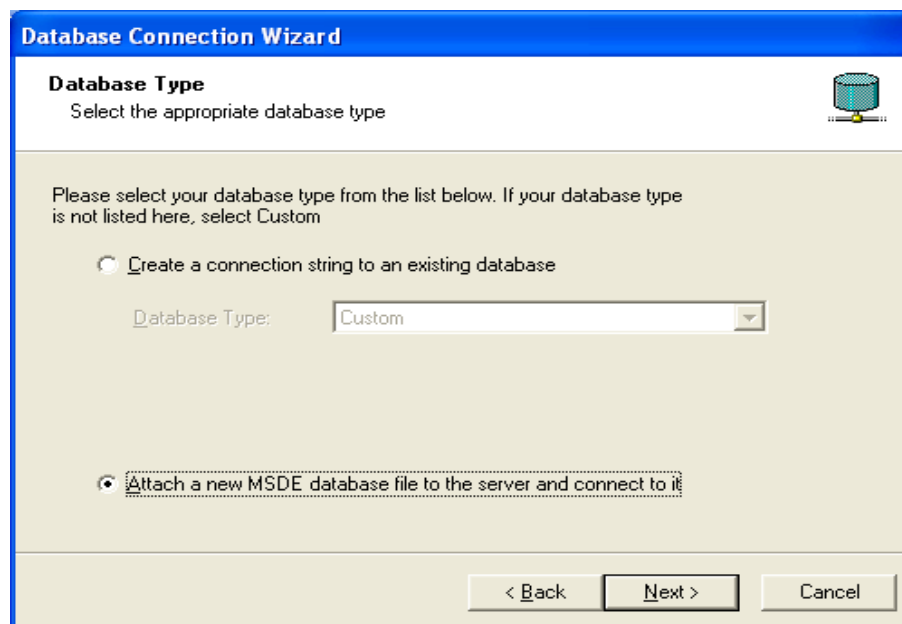
- To actually execute the previous command, type "go" and press enter as shown below :



- Then type "exit" (without quotes here) and close the cmd window.

You can now replace the previous WizSrc.mdf file with the new one. Place it in the DB folder of your Smarteam installation, usually: c:\program file\smarteam\db\

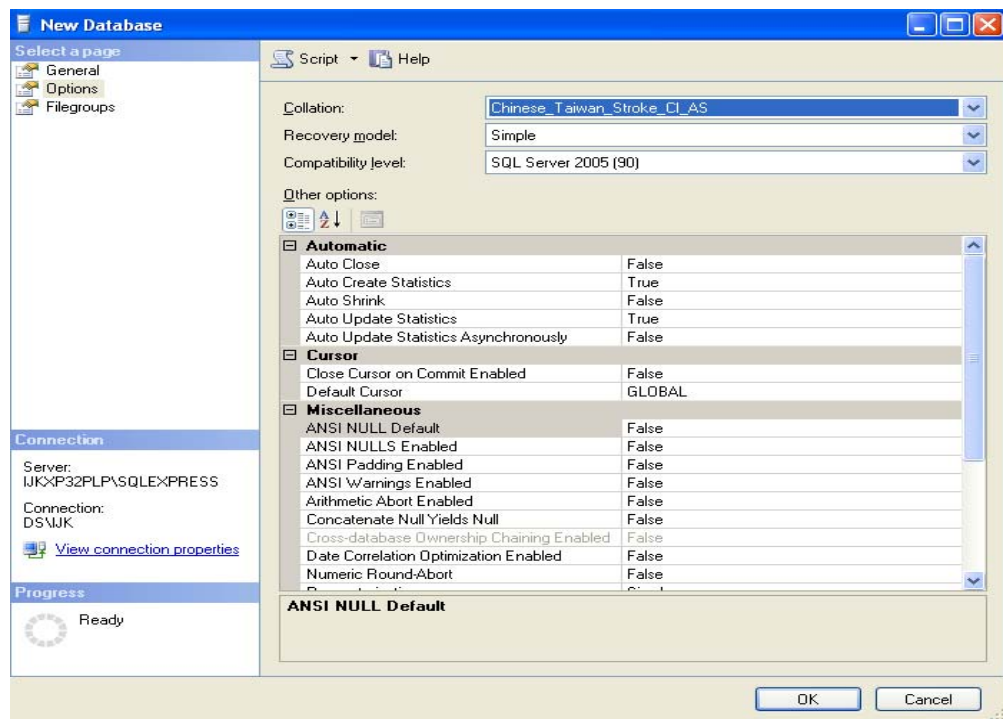
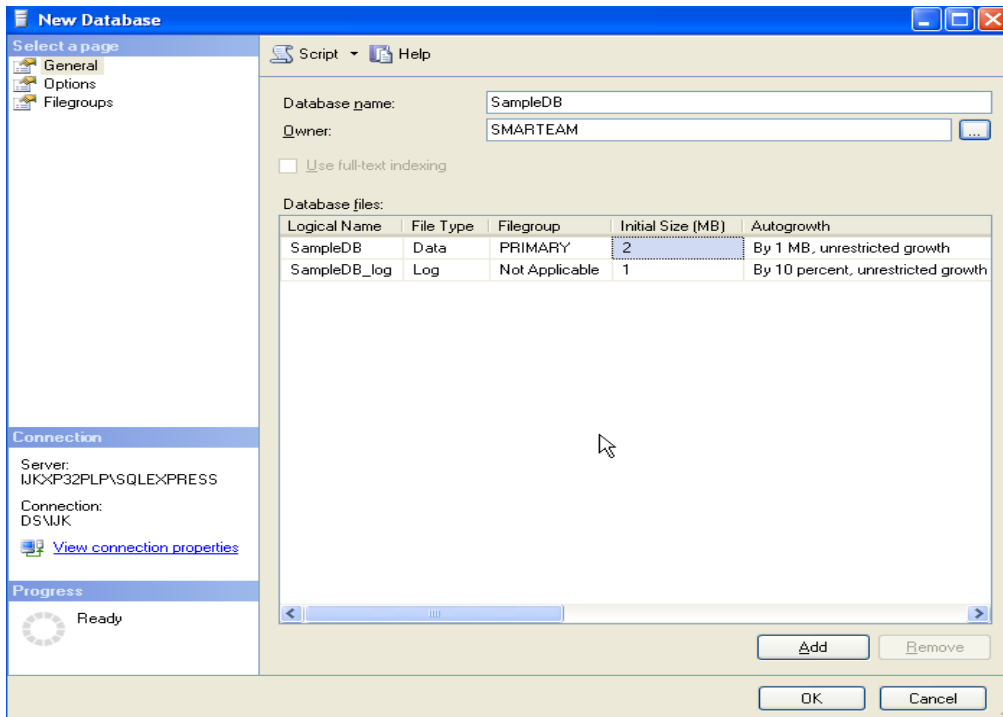
- Do not forget to delete the WizSrc.LDF (log file) that is placed in the same directory.
- Now you can simply connect the new WizSrc file as a normal database with the Smarteam Database connection manager.



2. Create a new Database

Create a new DB in SQL Server Management Studio and select the right **Collation Name** you wanted.

Note: The collation name should be case insensitive (CI), not case sensitive (CS). Here is a sample

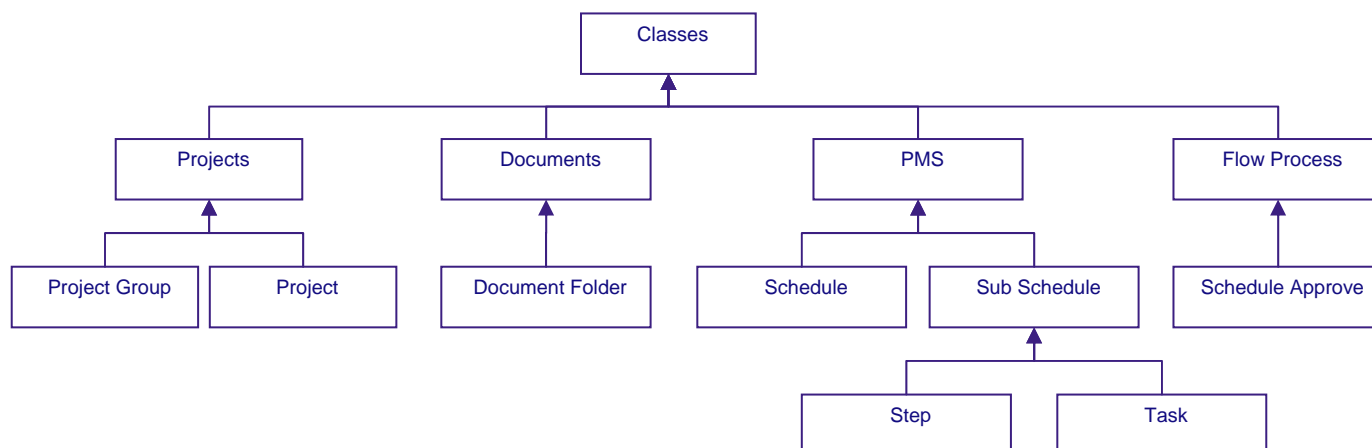


Add SMARTTEAM login to the DB as DB owner

With SmartDBExplorer, copy PLM Database to the new database

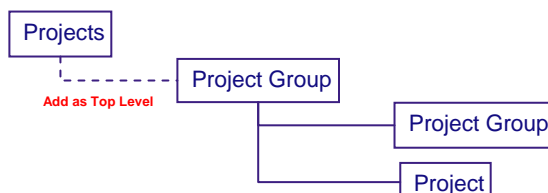
3. *Data Model Designer*

1. Launch SMARTEAM Data Model Designer
2. Modify PLM database (or the database you want to add SMARTPROJECT in)
3. Global database settings
 - 3.1 Un-check (Remove) "Program Management"
 - 3.2 Select "SmartProject"
 - 3.3 Click button "Next"



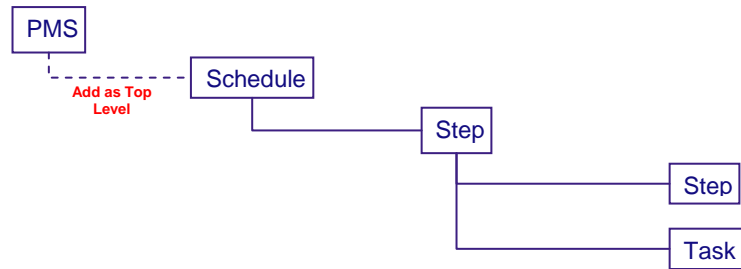
4. Apply "Revision Control" and "Workflow" Class Mechanism to PMS class
4. Create Step class under Schedule
5. Create Project Group class under Projects
- 6. Create process classes: Project Creation Approval, Schedule Approval, and Project Closing Approval**
7. Apply "PMS User Class Behavior" to Users class
- (Remark: The required attributes will be added into related classes based on your behavior assignment.)
8. Apply "PMS Project Class Behavior" to Projects class
9. Apply "PMS Project Leaf Class Behavior" to Project class
10. Apply "PMS Document Class Behavior" to Documents class
11. Apply Workflow and Revision Control behaviors to PMS class
12. In Projects classes, define only Project Group as Add as Top Level

Uncheck "**Add as top level**" of "Projects", and check "**Add as top level**" for "Project Group" only



13. In PMS classes, define only Schedule as Add as Top Level

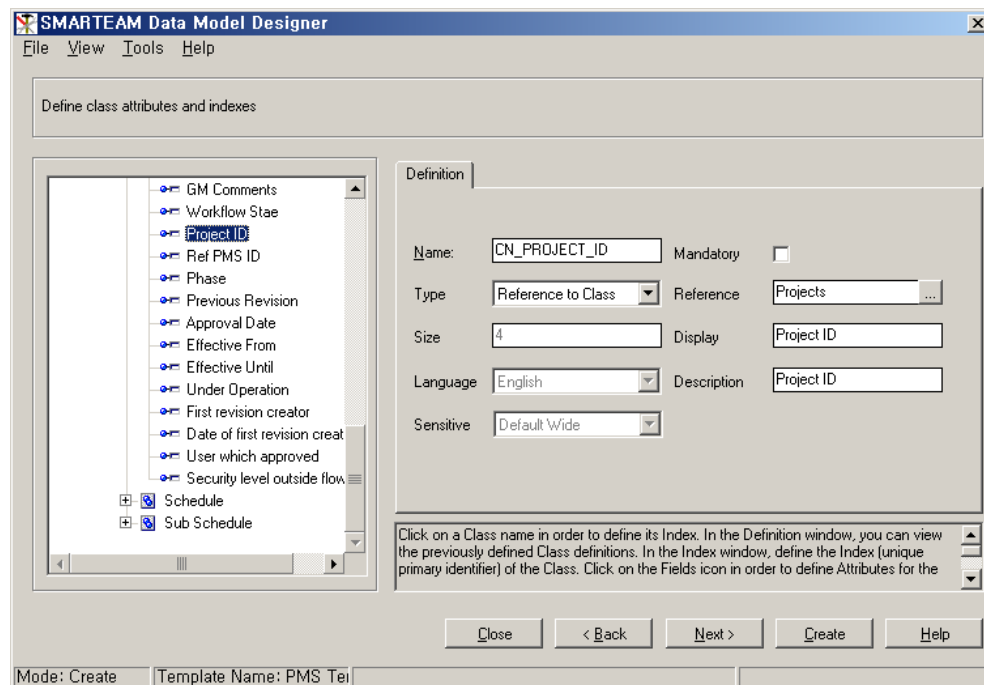
Uncheck "**Add as top level**" of "PMS", and check "**Add as top level**" for "Schedule" only

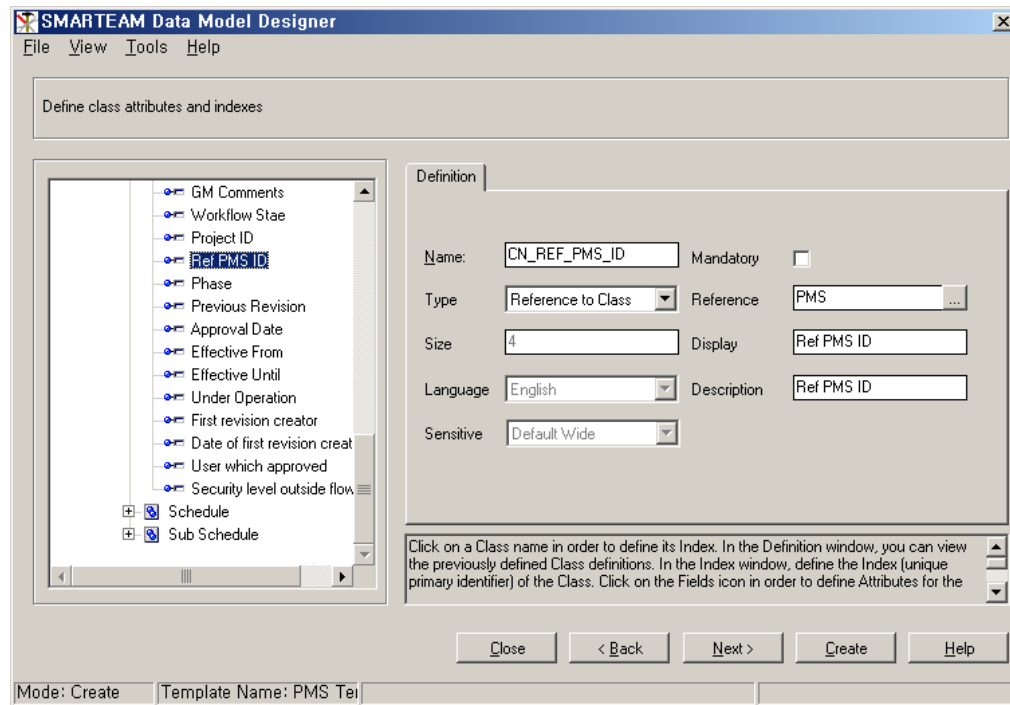


14. Define all the icons for the new classes

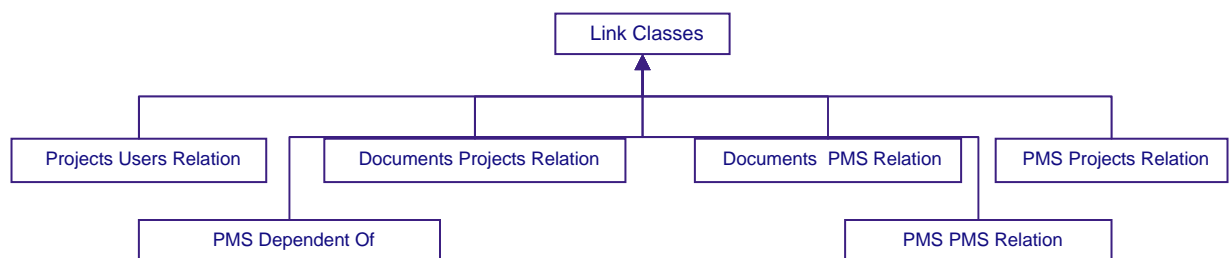
15. Create "Ref PMS ID" and "Project ID" attributes in PMS class, as reference to PMS and Projects classes

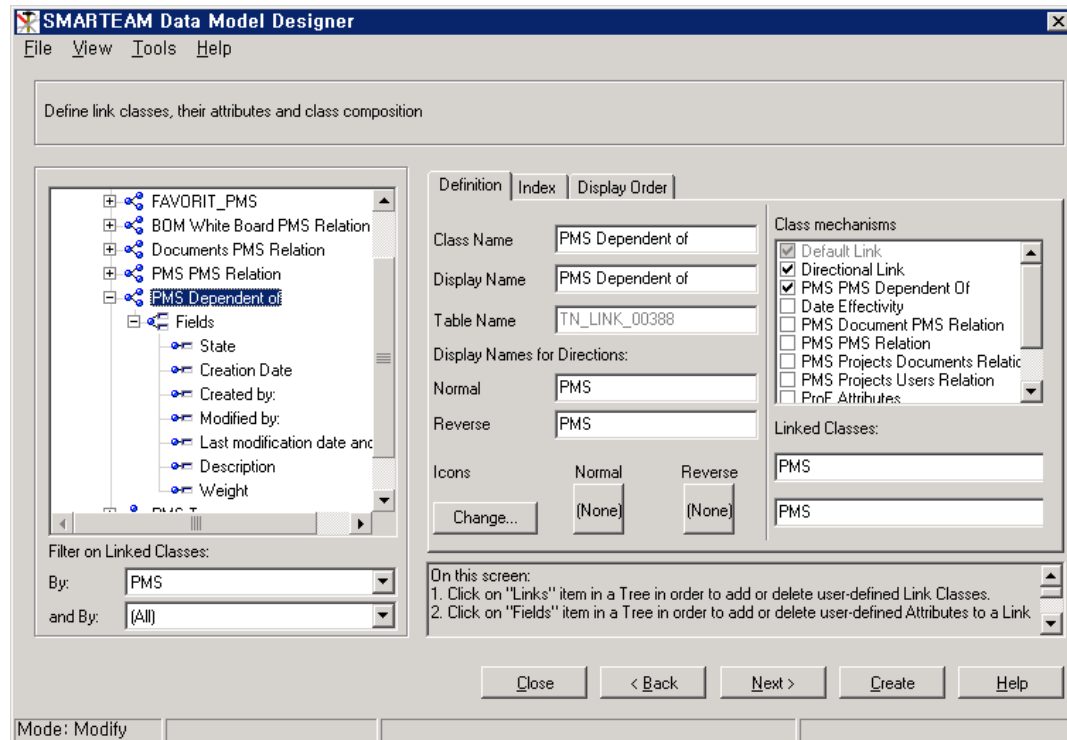
Display Name	Filed Name	Field Type
Project ID	CN_PROJECT_ID	REF (Projects)
Ref PMS ID	CN_REF_PMS_ID	REF (PMS)



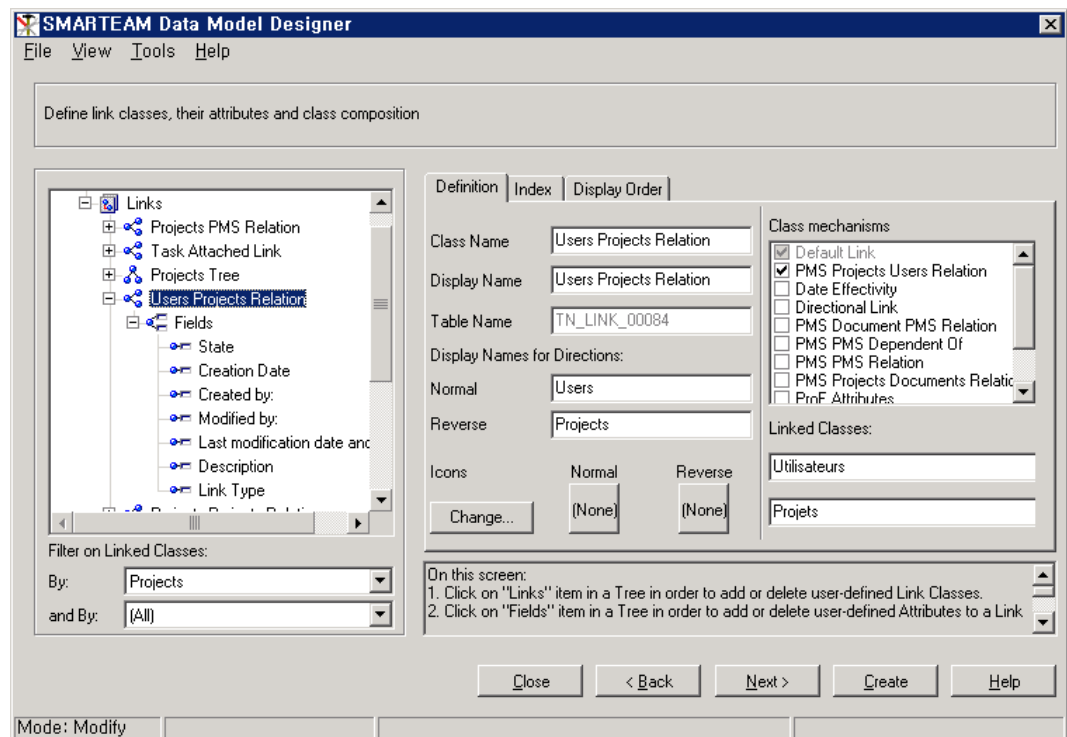


16. Create “PMS Documents Relation”, “PMS PMS Relation”, “PMS Dependent Of” (this one is a directional link between PMS and PMS classes) link classes





17. Apply all the PMS link behaviors to appropriate links (5 should be done)



SMARTTEAM Data Model Designer

File View Tools Help

Define link classes, their attributes and class composition

- Projects Tree
- Users Projects Relation
- Projects Projects Relation
- TN_PRQJ_FAVORIT
- Parts Projects Relation
- Documents Projects Relation**
 - Fields
 - State
 - Creation Date
 - Created by:
 - Modified by:
 - Last modification date and
 - Description

Filter on Linked Classes:

By: Projects

and By: (All)

Definition Index Display Order

Class Name: Documents Projects Relation

Display Name: Documents Projects Relation

Table Name: TN_LINK_00094

Display Names for Directions:

Normal: Documents

Reverse: Projects

Icons: Normal (None) Reverse (None)

Change...

Class mechanisms:

- ☒ Default Link
- ☒ PMS Projects Documents Relatic
- ☐ Date Effectivity
- ☐ Directional Link
- ☐ PMS Document PMS Relation
- ☐ PMS PMS Dependent Of
- ☐ PMS PMS Relation
- ☐ PMS Projects Users Relation
- ☐ PrnF Attributes

Linked Classes:

Documents

Projets

On this screen:

1. Click on "Links" item in a Tree in order to add or delete user-defined Link Classes.
2. Click on "Fields" item in a Tree in order to add or delete user-defined Attributes to a Link

Close < Back Next > Create Help

Mode: Modify

SMARTTEAM Data Model Designer

File View Tools Help

Define link classes, their attributes and class composition

- Task Attached Link
- PMS Tree
- FAVORIT_PMS
- BOM White Board PMS Relation
- Documents PMS Relation**
 - Fields
 - State
 - Creation Date
 - Created by:
 - Modified by:
 - Last modification date and
 - Description
 - Weight

Filter on Linked Classes:

By: PMS

and By: (All)

Definition Index Display Order

Class Name: Documents PMS Relation

Display Name: Documents PMS Relation

Table Name: TN_LINK_00386

Display Names for Directions:

Normal: Documents

Reverse: PMS

Icons: Normal (None) Reverse (None)

Change...

Class mechanisms:

- ☒ Default Link
- ☒ PMS Document PMS Relation
- ☐ Date Effectivity
- ☐ Directional Link
- ☐ PMS PMS Dependent Of
- ☐ PMS PMS Relation
- ☐ PMS Projects Documents Relatic
- ☐ PMS Projects Users Relation
- ☐ PrnF Attributes

Linked Classes:

Documents

PMS

On this screen:

1. Click on "Links" item in a Tree in order to add or delete user-defined Link Classes.
2. Click on "Fields" item in a Tree in order to add or delete user-defined Attributes to a Link

Close < Back Next > Create Help

Mode: Modify

SMARTTEAM Data Model Designer

File View Tools Help

Define link classes, their attributes and class composition

- Task Attached Link
- PMS Tree
- FAVORIT_PMS
- BOM White Board PMS Relation
- Documents PMS Relation
- PMS PMS Relation**
 - Fields
 - State
 - Creation Date
 - Created by:
 - Modified by:
 - Last modification date and
 - Description

Filter on Linked Classes:

By: PMS

and By: (All)

Definition Index Display Order

Class Name: PMS PMS Relation

Display Name: PMS PMS Relation

Table Name: TN_LINK_00387

Display Names for Directions:

Normal: PMS

Reverse: PMS

Icons: Normal Reverse

Change... (None) (None)

Class mechanisms

- ☒ Default Link
- ☒ PMS PMS Relation
- ☐ Date Effectivity
- ☐ Directional Link
- ☐ PMS Document PMS Relation
- ☐ PMS PMS Dependent Of
- ☐ PMS Projects Documents Relatic
- ☐ PMS Projects Users Relation
- ☐ PmF Attributes

Linked Classes:

PMS

PMS

On this screen:

1. Click on "Links" item in a Tree in order to add or delete user-defined Link Classes.
2. Click on "Fields" item in a Tree in order to add or delete user-defined Attributes to a Link

Close < Back Next > Create Help

Mode: Modify

SMARTTEAM Data Model Designer

File View Tools Help

Define link classes, their attributes and class composition

- FAVORIT_PMS
- BOM White Board PMS Relation
- Documents PMS Relation
- PMS PMS Relation
- PMS Dependent of**
 - Fields
 - State
 - Creation Date
 - Created by:
 - Modified by:
 - Last modification date and
 - Description
 - Weight

Filter on Linked Classes:

By: PMS

and By: (All)

Definition Index Display Order

Class Name: PMS Dependent of

Display Name: PMS Dependent of

Table Name: TN_LINK_00388

Display Names for Directions:

Normal: PMS

Reverse: PMS

Icons: Normal Reverse

Change... (None) (None)

Class mechanisms

- ☒ PMS PMS Dependent Of
- ☐ Date Effectivity
- ☐ Default Link
- ☐ Directional Link
- ☐ PMS Document PMS Relation
- ☐ PMS PMS Relation
- ☐ PMS Projects Documents Relatic
- ☐ PMS Projects Users Relation
- ☐ PmF Attributes

Linked Classes:

PMS

PMS

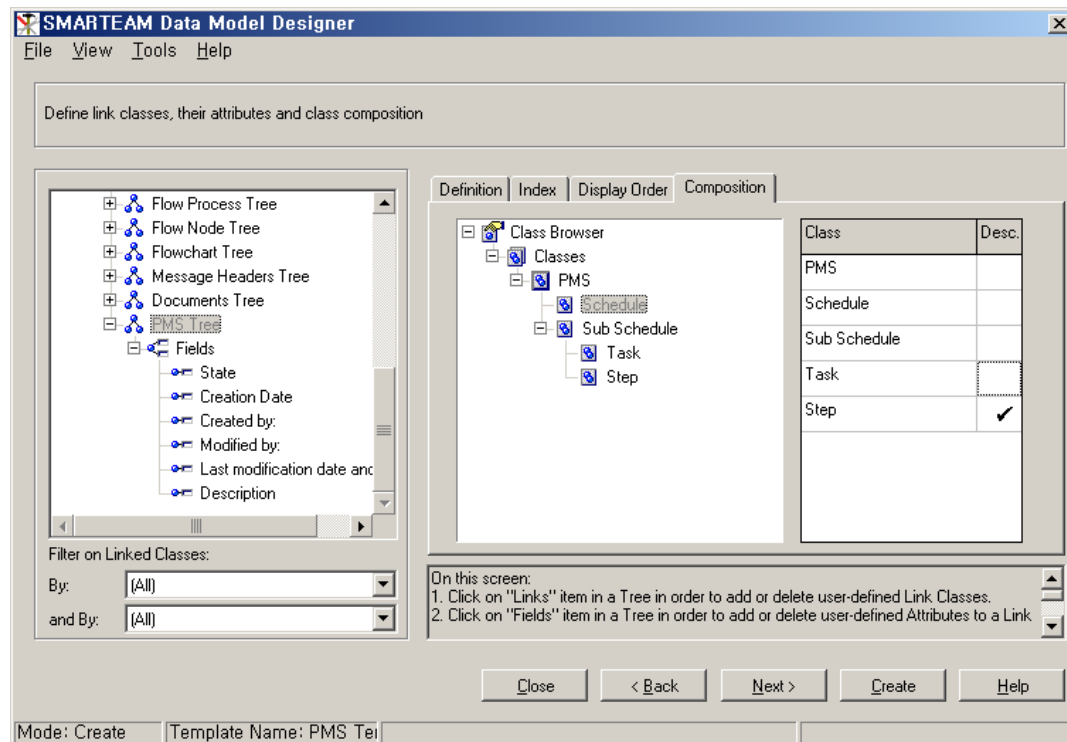
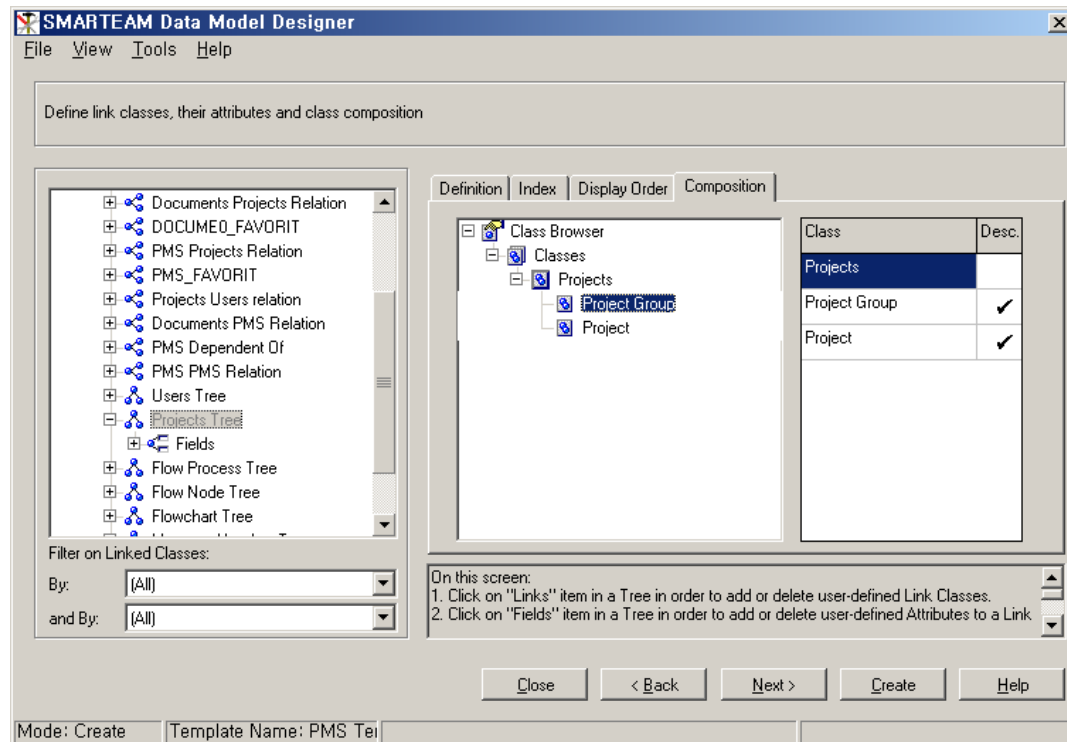
On this screen:

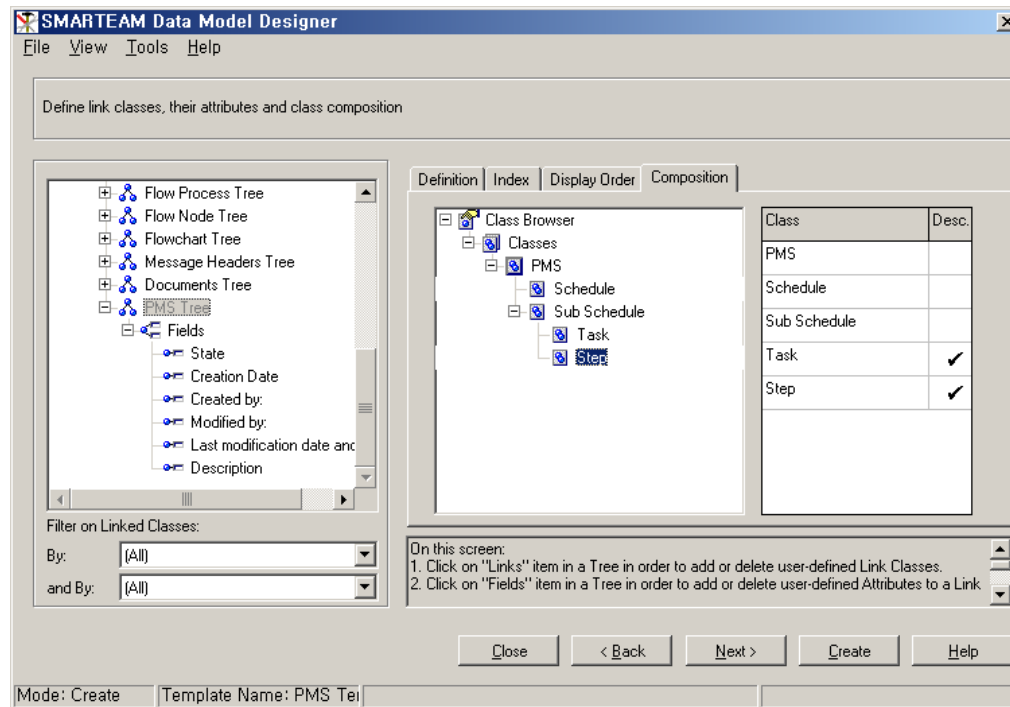
1. Click on "Links" item in a Tree in order to add or delete user-defined Link Classes.
2. Click on "Fields" item in a Tree in order to add or delete user-defined Attributes to a Link

Close < Back Next > Create Help

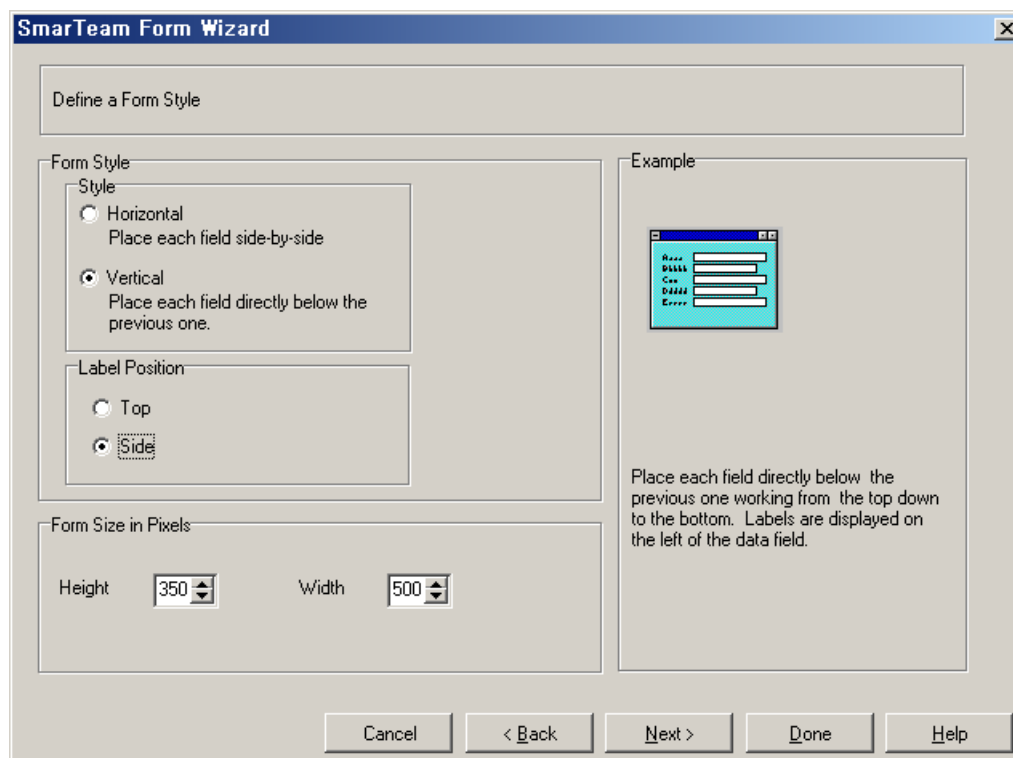
Mode: Modify

18. Define the compositions for Projects and PMS super classes





19. Design the profile cards for ST Editor (Web Editor profile cards will be automatically generated)



20. Create the database

Be sure to run “SMARTeam – Web Editor Datamodel Wizard” for current database.

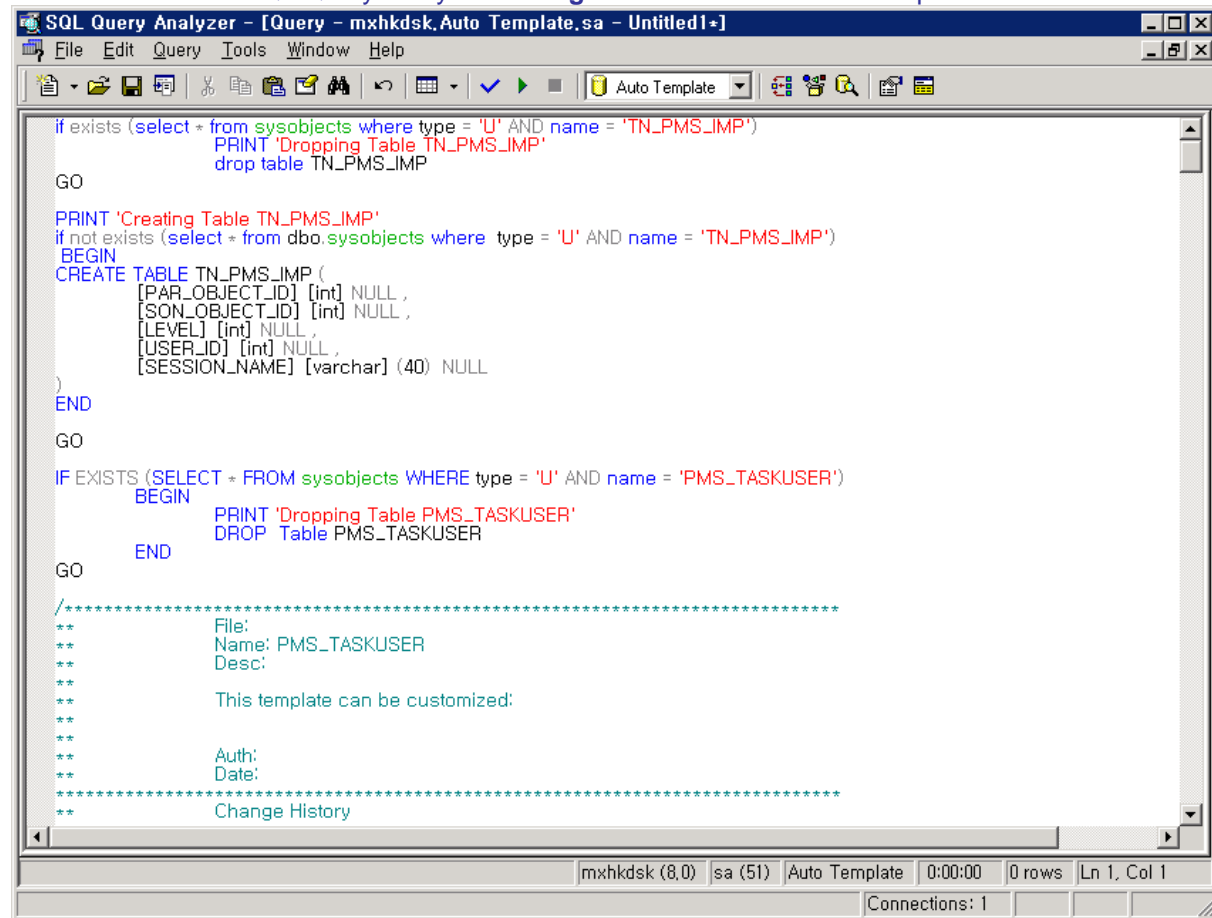
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4. SQL Scripts

Run ScriptAll.sql to make tables and stored procedures. As SQL user SMARTEAM, run this procedure in SQL Query Analyzer

Please run it in MS SQL Query Analyzer **on target database** to create store procedure/functions.



5. Values for Lookup tables

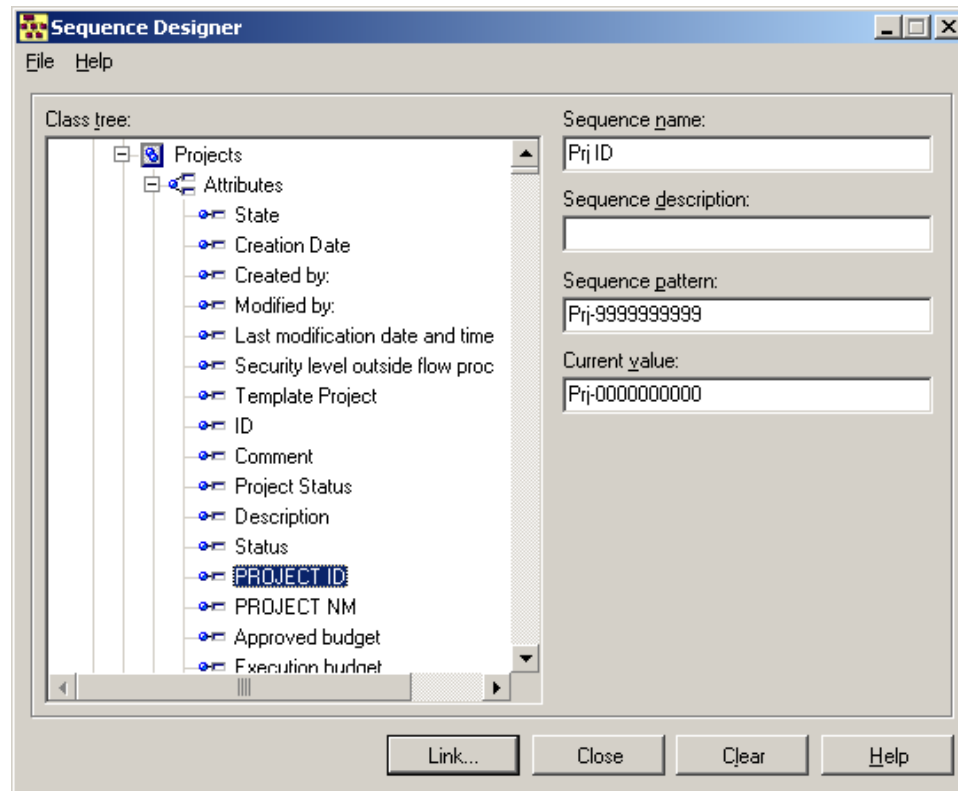
Enter values in the “User PMS Role” lookup table

Project Manager
Project Leader
PMS Engineer

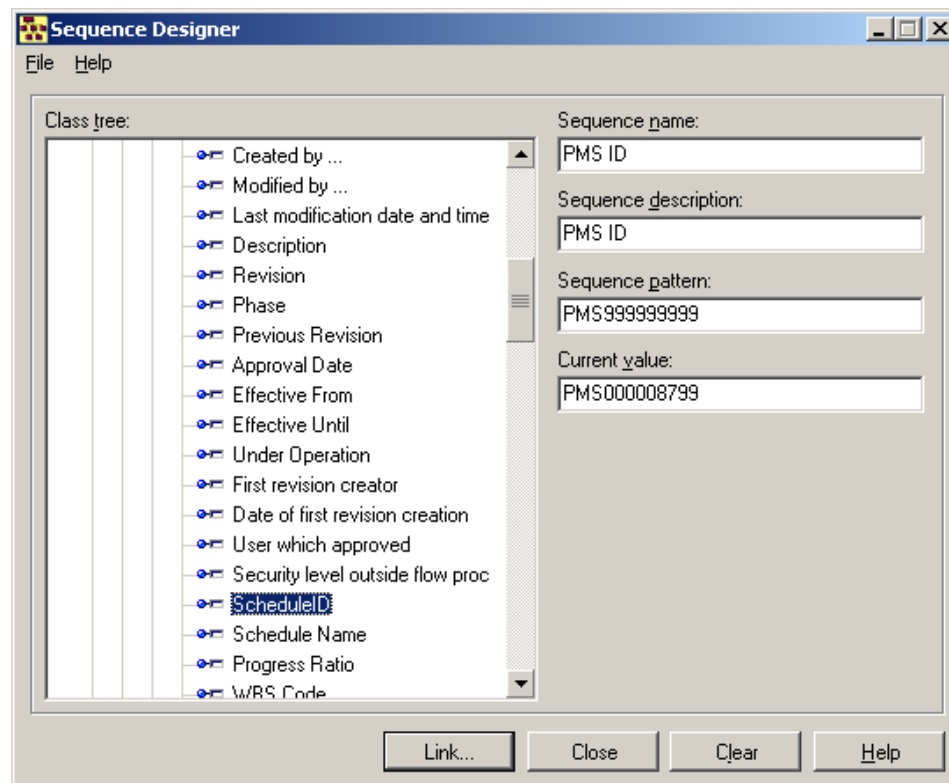
6. Sequence Designer

Add Sequence for Project, Document, and PMS classes and place those Sequence name in Ds.Bpc.SMARTPROJECT.config.xml

1. Launch SMARTEAM Sequence Designer.
2. Add sequence name “ProjectID” for project

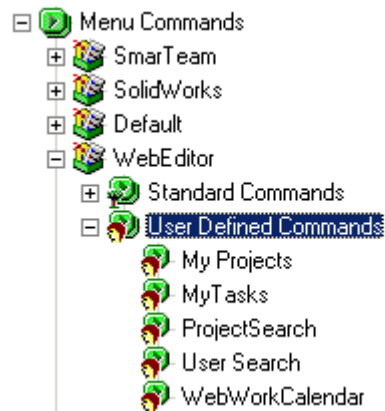


2. Add sequence name “PMS ID” for PMS

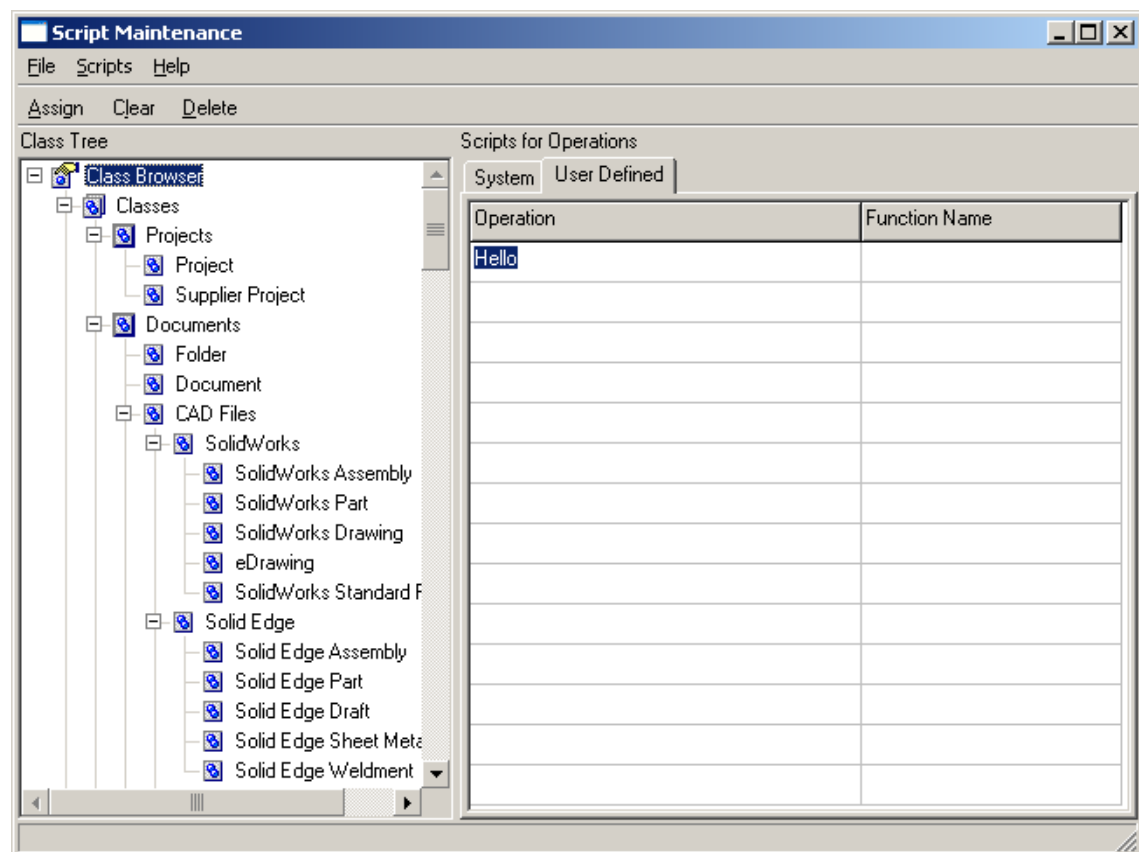


7. Menu Editor

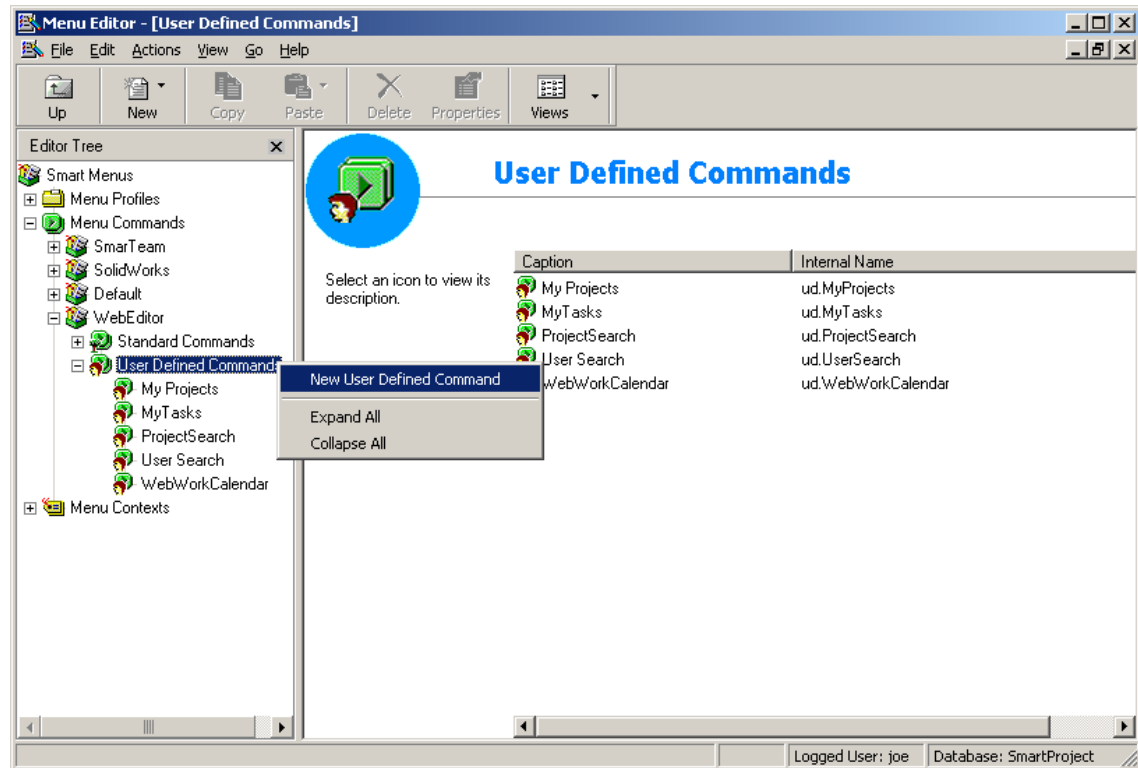
1. Launch SMARTTEAM Admin console->User Interface Management->Menu editor.
2. Menu Commands for WebEditor



Note: Before you do the following steps, you must have at least one dummy user define script in script maintenance then you can choose in “user script”.

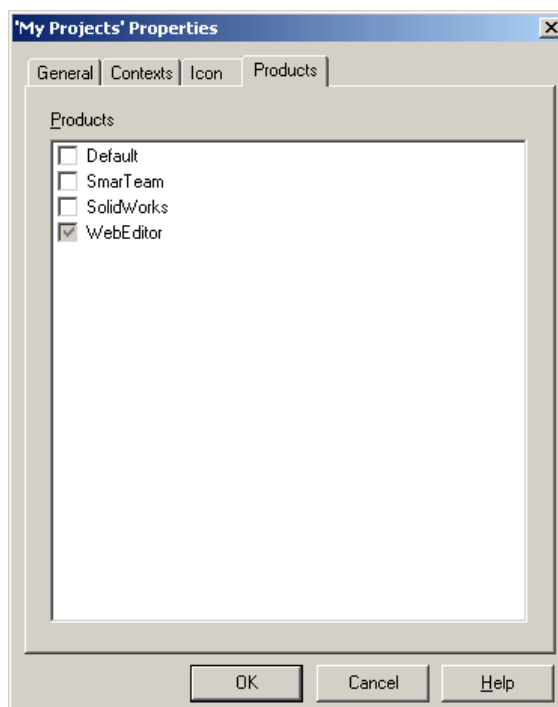
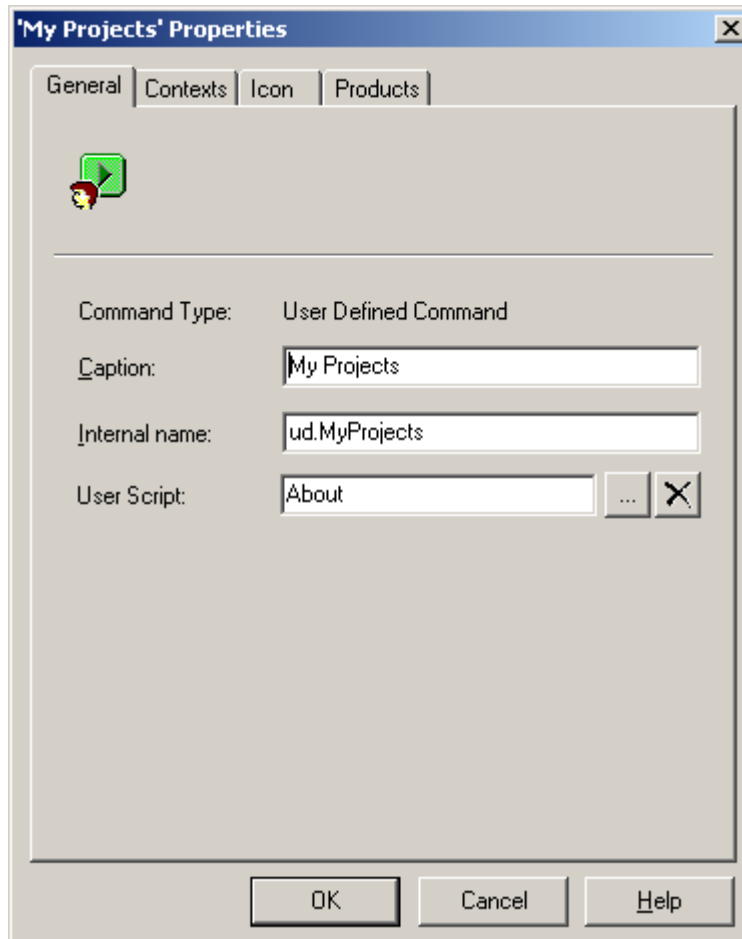


- 2.1 Right click on “**User Defined Commands**”, choose “**New User Defined Command**””



2.2 Input values **"My Projects"** into **"Caption"**, Select any dummy script (for example: Hello) as User script



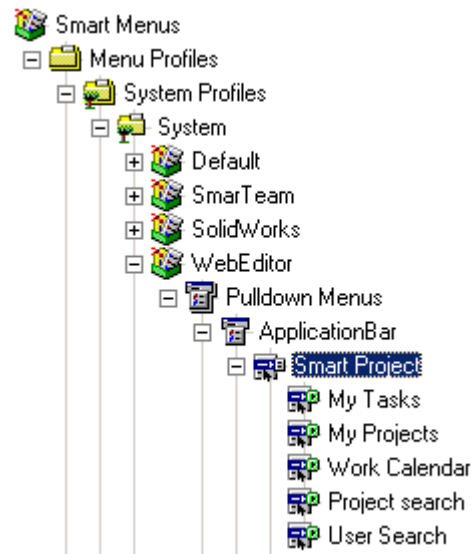


2.3 Click button **“OK”** to save

2.4 Add following commands into **“User Defined Commands”** for **“WebEditor”** in **“Menu Commands”**

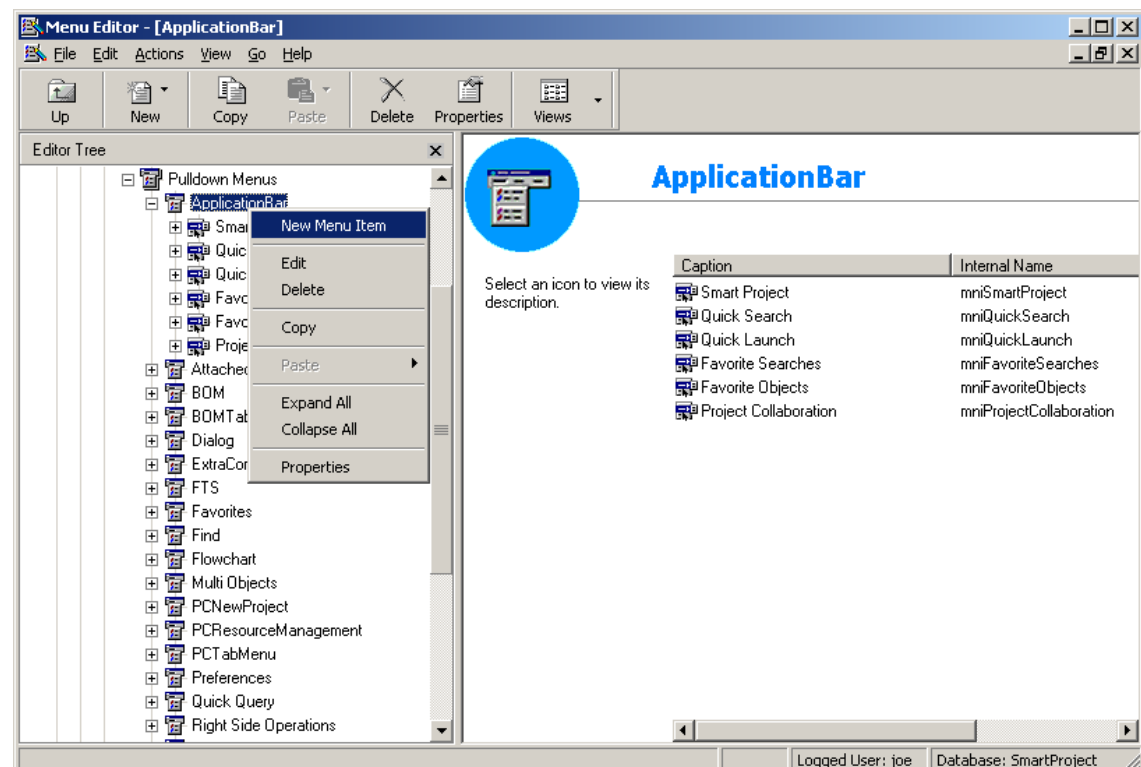
Caption	InternalName	Commands
My Tasks	mniMyTasks	ud.MyTasks
My Projects	mniMyProjects	ud.MyProjects
Work Calendar	mniWorkCalendar	ud.WorkCalendar
Project Search	mniProjectSearch	ud.ProjectSearch
User Search	mniUserSearch	ud.UserSearch

3. Menu Profiles for System

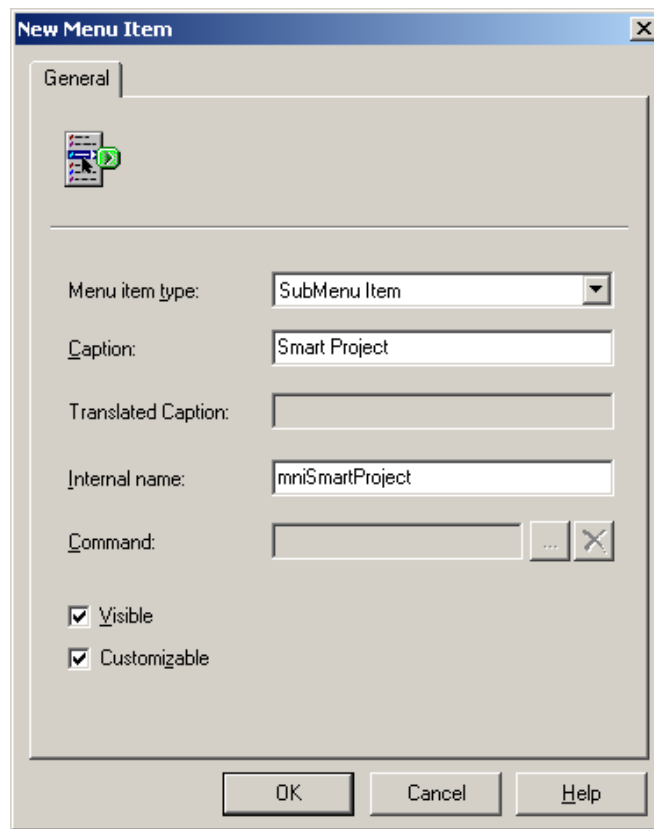


3.1 Create SubMenu

3.1.1 Right click on “ApplicationBar”, choose “New menu Item”



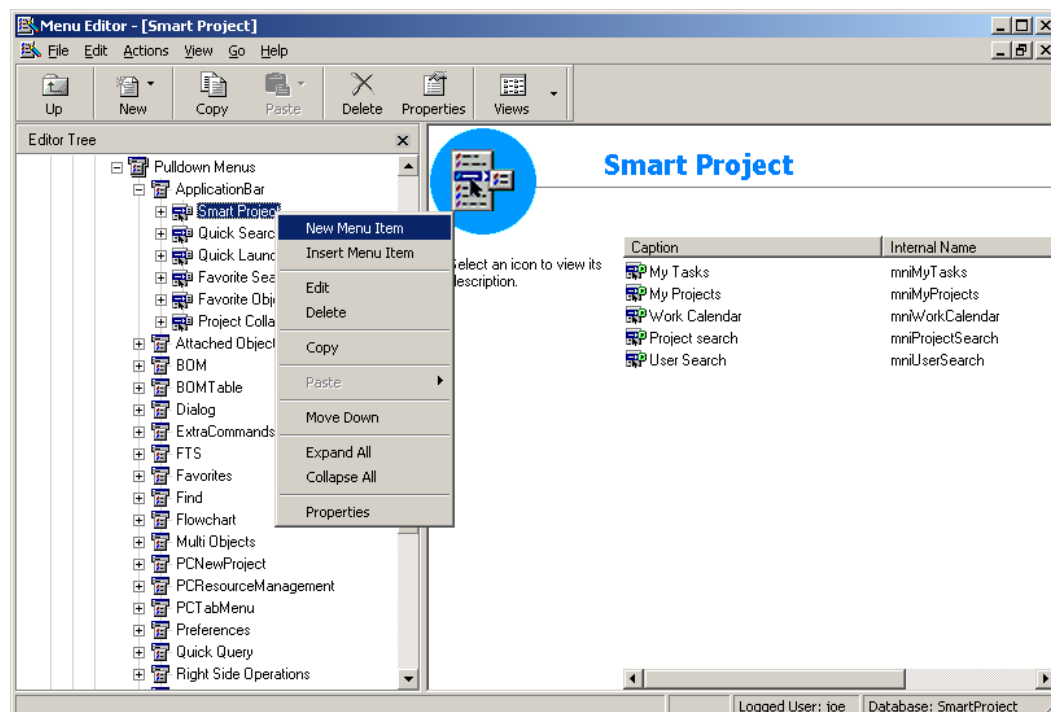
3.1.2 Choose Menu item type as “SubMenu Item”, Caption as “Smart Project”



3.1.3 Click button :OK: to save

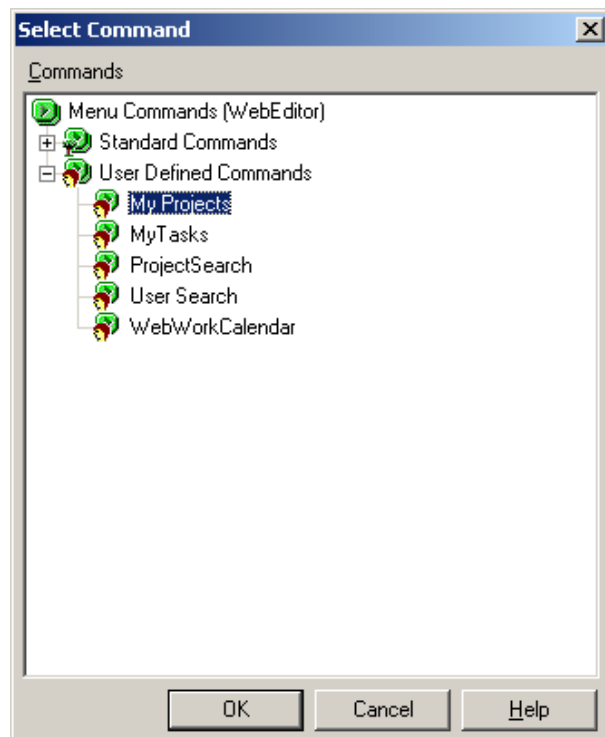
3.2 Create menu item

3.1.1 Right click on “Smart Project”, choose “New menu Item”

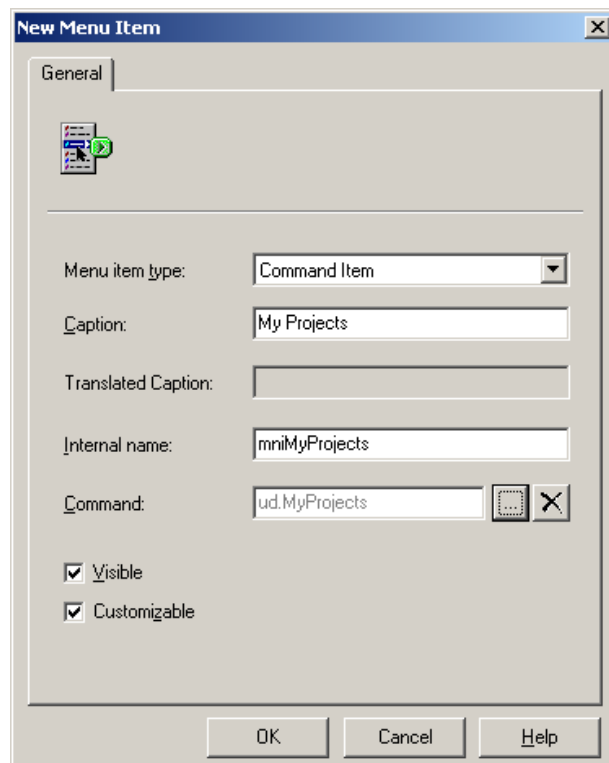


3.1.2 Input “Caption” as “My Project”

3.1.3 Choose command with “My Projects”



3.1.3 Click “OK” to choose command with “My Projects”



3.1.3 Click “OK” to save the menu item

3.2 Redo “Create menu item” for “My Tasks”, “Project search”, “Work Calendar”, “User Search”

8. Web Form Designer

1. Launch SMARTEAM Web Form Designer.

Class Name	Button Name	Visible Mode
Project	Member	Update/View
Project	Project Copy	Update/View
Schedule/Step	Weight setting	Update
Schedule/Step	Change WBS code	Update
Schedule	Schedule planning	Update
Schedule	Regenerate WBS	Update
Schedule	Recalculate progress	Update
Schedule	Gantt Chart	View
Schedule	Compare WBS	View
Schedule	Pert Chart	View
Schedule	Resource Chart	View
Schedule	Cost Summary	view
Schedule	Deliverables	View
Task	Retrieve Output	View
Task	Assign Engineer	Update/View
Task	Precedence task setting	Update/View

2. Remove the web profile cards that need to be re-generated

3. Modify profilecard of **“Project”**

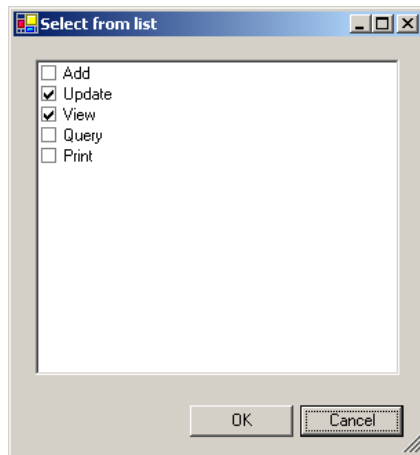
3.1 Add buttons “Members”, “Project Copy”,

3.2 Add Java Script for button **“Member”** at **“On Enter”**, visible in Mode **“Update”** & **“View”**

```

var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/SetParticipants.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+
"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();

```

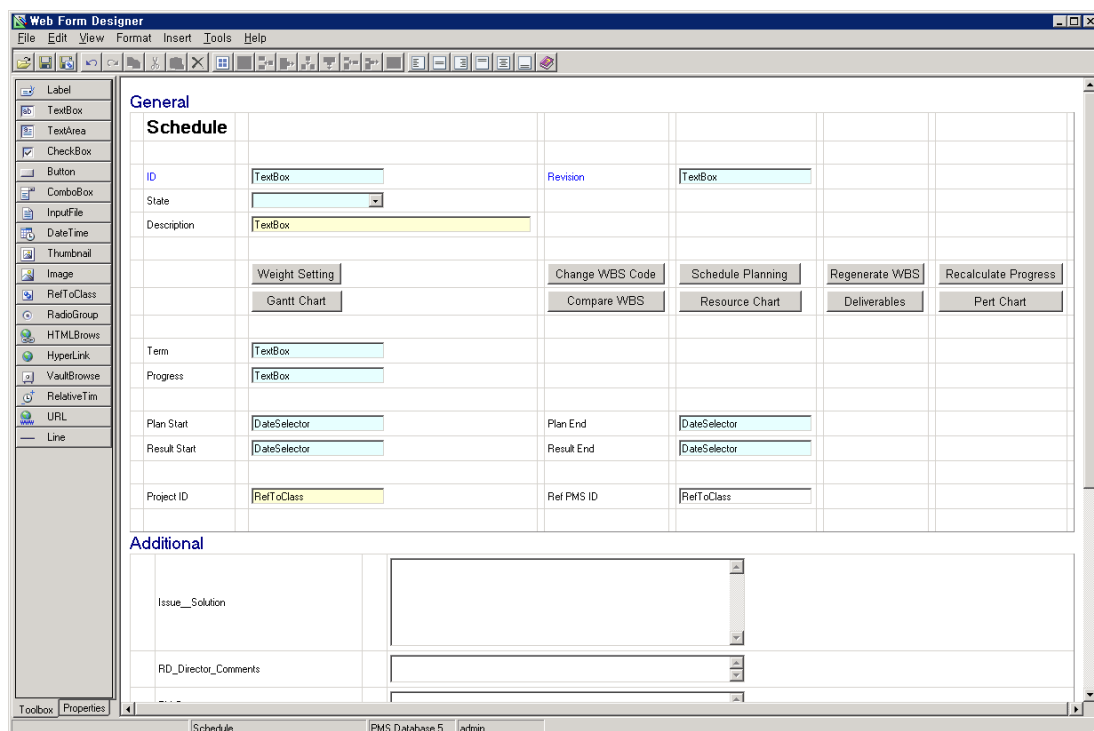


3.3 Add Java Script for button “Project Copy” at “On Enter”, visible in Mode “Update” & “View”

```
var width=window.screen.width*7/10;
var height=window.screen.height*7/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
window.showModalDialog("/WebEditor/PMS/ProjectCopy.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()
+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:"
height+"px;dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();
```

3. Modify profilecard of “Schedule”

3.1 Add buttons “Weight setting”, “Change WBS code”, “Schedule planning”, “Regenerate WBS”, “Recalculate progress”, “Compare WBS”, “Gantt Chart”, “Pert Chart”, “Resource Chart”, “Deliverables”, “Cost Summary”.



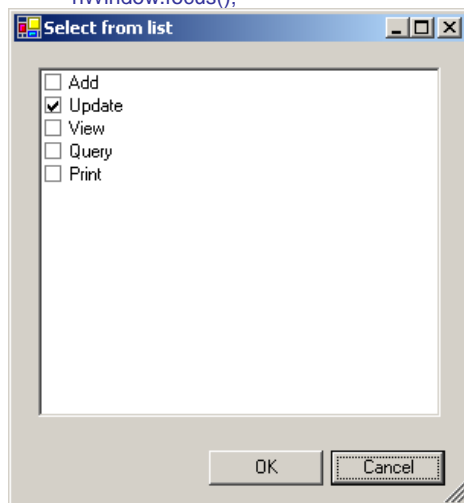
3.2 Add Java Script for button “Weight setting” at “On Enter” , visible in Mode “Update”

```
var width=600;//window.screen.width*9/10;
var height=600;//window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/SetWeight.aspx?Height=700&Width=610&cid="+SmObjectData.GetClassId()+ "&oid="+SmObjectData.GetObjectId()+ "&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();
```

3.3 Add Java Script for button “Change WBS Code” at “On Enter” , visible in Mode “Update”

```
var width=window.screen.width/2;
var height=window.screen.height*3/4;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
=window.showModalDialog("/WebEditor/PMS/WBSOrderChange.aspx?Height="+height+"&Width=610&cid="+SmObjectData.GetClassId()+ "&oid="+SmObjectData.GetObjectId()+ "&nb="+nb,window,"dialogHeight:"
height+"px;dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();
```



3.4 Add Java Script for button “Schedule planning” at “On Enter” , visible in Mode “Update”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/Scheduling.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+ "&oid="+SmObjectData.GetObjectId()+ "&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();
```

3.5 Add Java Script for button “Regenerate WBS” at “On Enter” , visible in Mode “Update”

```
var width=600;//window.screen.width*9/10;
var height=600;//window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
```

```

var hWindow =
window.showModalDialog("/WebEditor/PMS/RegenerateWBS.aspx?Height=700&Width=610&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();

```

3.6 Add Java Script for button **“Recalculate progress”** at **“On Enter”** , visible in Mode **“Update”**

```

var width=600;//window.screen.width*9/10;
var height=600;//window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/CalcAllProgress.aspx?Height=700&Width=610&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();

```

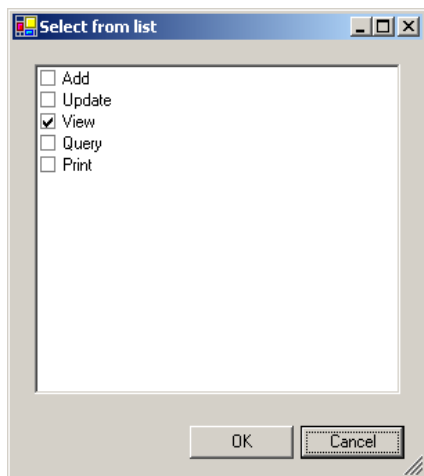
3.7 Add Java Script for button **“Gantt Chart”** at **“On Enter”** , visible in Mode **“View”**

```

var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/GanttBar2.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();

```



3.8 Add Java Script for button **“Compare WBS”** at **“On Enter”** , visible in Mode **“View”**

```

var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/GanttBar4.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();

```

3.9 Add Java Script for button “PERT Chart” at “On Enter” , visible in Mode “View”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/Pert.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();
```

3.10 Add Java Script for button “Resource Chart” at “On Enter”, visible in Mode “View”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/ResourceBar.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()
)+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();
```

3.11 Add Java Script for button “Deliverables” at “On Enter” , visible in Mode “View”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/OutputReport.aspx?Height=700&Width=610&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

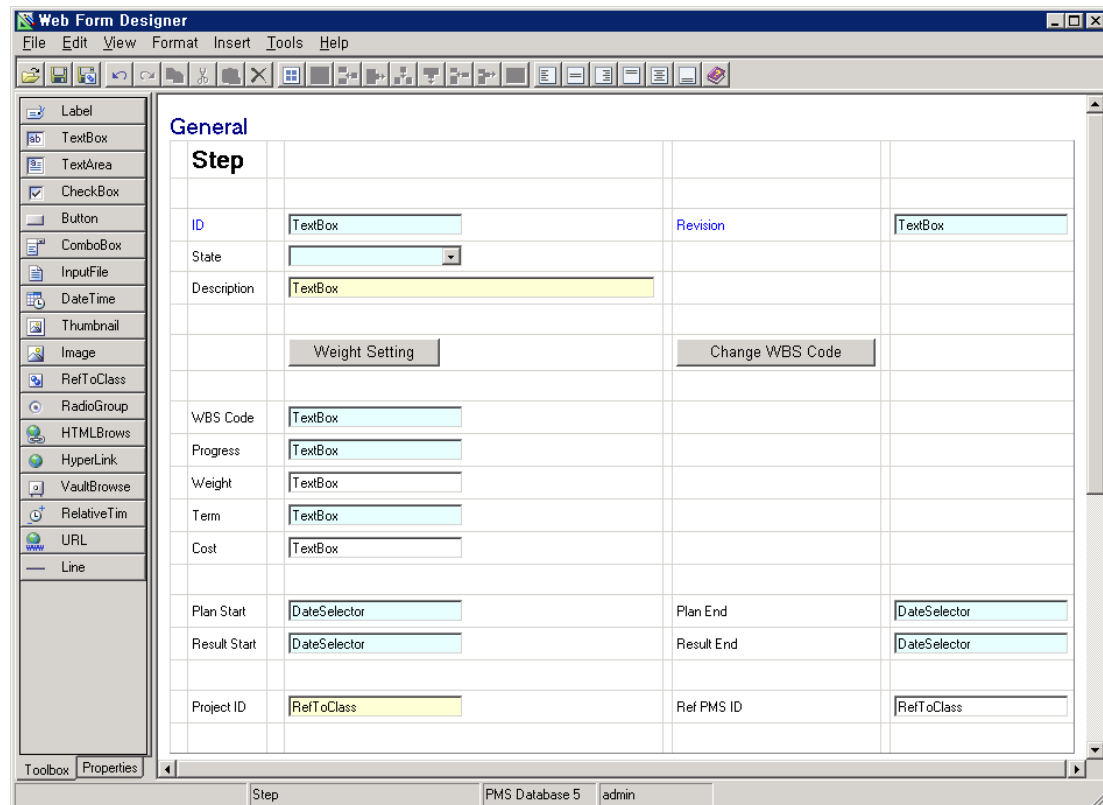
if (hWindow != null)
    hWindow.focus();
```

3.12 Add Java Script for button “cost summary” at “On Enter” , visible in Mode “View”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
=window.showModalDialog("/WebEditor/PMS/CostSummary.aspx?Height=700&Width=610&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();
```

4. Modify profilecard of “Step”

4.1 Add buttons “Weight setting” , “Change WBS code”



Web Form Designer

File Edit View Format Insert Tools Help

Label
TextBox
TextArea
CheckBox
Button
ComboBox
InputFile
DateTime
Thumbnail
Image
RefToClass
RadioGroup
HTMLBrows
HyperLink
VaultBrowse
RelativeTim
URL
Line

General

Step			
ID	TextBox	Revision	TextBox
State	ComboBox		
Description	TextBox		
	Weight Setting	Change WBS Code	
WBS Code	TextBox		
Progress	TextBox		
Weight	TextBox		
Term	TextBox		
Cost	TextBox		
Plan Start	DateSelector	Plan End	DateSelector
Result Start	DateSelector	Result End	DateSelector
Project ID	RefToClass	Ref PMS ID	RefToClass

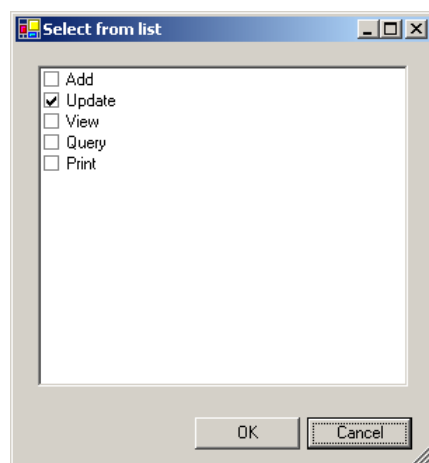
Toolbox Properties

Step PMS Database 5 admin

4.2 Add Java Script for button “Weight setting” at “On Enter” , visible in Mode “Update”

```
var width=window.screen.width/2;
var height=window.screen.height*3/4;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/SetWeight.aspx?Height="+height+"&Width=610&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:"+ height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();
```



Select from list

- ☐ Add
- ☒ Update
- ☐ View
- ☐ Query
- ☐ Print

OK Cancel

4.3 Add Java Script for button “Change WBS code” at “On Enter” , visible in Mode “Update”

```
var width=window.screen.width/2;
var height=window.screen.height*3/4;
```

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```

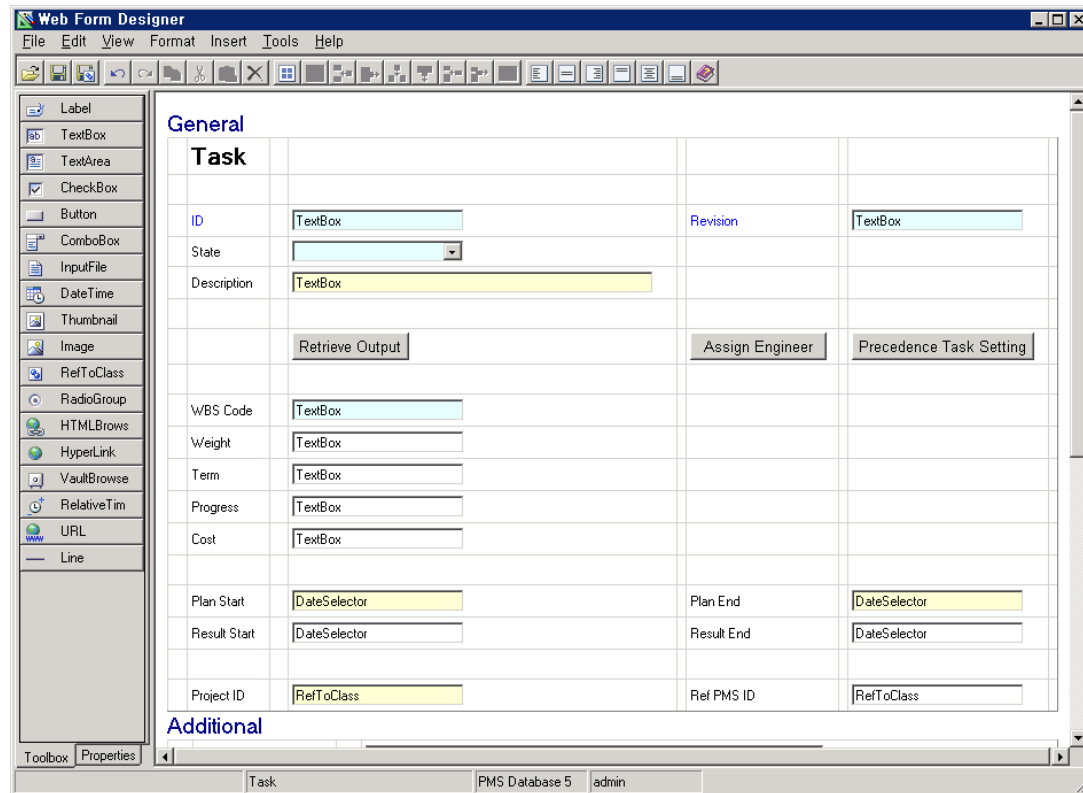
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/WBSOrderChange.aspx?Height="+height+"&Width=610&cid="+SmObjectData.GetClassId(
)+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

if (hWindow != null)
    hWindow.focus();

```

5. Modify profilecard of "Task"

5.1 Add buttons "Retrieve Output", "Assign Engineer", "Precedence task setting"



The screenshot shows the 'Web Form Designer' interface. On the left is a 'Toolbox' with various controls like Label, TextBox, TextArea, CheckBox, Button, ComboBox, InputFile, DateTime, Thumbnail, Image, RefToClass, RadioGroup, HTMLBrows, HyperLink, VaultBrowse, RelativeTim, URL, and Line. The main area displays a form titled 'Task'. The form has a 'General' tab and an 'Additional' tab. The 'General' tab contains the following fields and controls:

- ID: TextBox
- State: Dropdown menu
- Description: TextBox
- Revision: TextBox
- Buttons: 'Retrieve Output', 'Assign Engineer', 'Precedence Task Setting'
- WBS Code: TextBox
- Weight: TextBox
- Term: TextBox
- Progress: TextBox
- Cost: TextBox
- Plan Start: DateSelector
- Plan End: DateSelector
- Result Start: DateSelector
- Result End: DateSelector
- Project ID: RefToClass
- Ref PMS ID: RefToClass

The 'Additional' tab is currently empty. The bottom status bar shows 'Task', 'PMS Database 5', and 'admin'.

5.2 Add Java Script for button "Retrieve output" at "On Enter", visible in Mode "View"

```

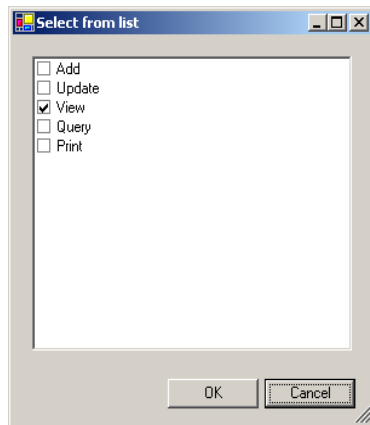
var width=window.screen.width*9/10;

var height=window.screen.height*9/10;

var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/RetrieveOutput.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId(
)+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");

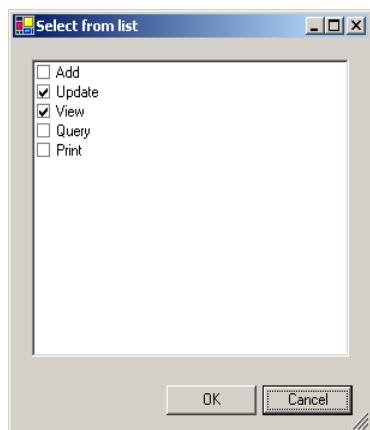
if (hWindow != null)
    hWindow.focus();

```



5.3 Add Java Script for button “Assign engineer” at “On Enter”, visible in Mode “Update” & “View”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/AssignEngineer.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClass
Id()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();
```



5.4 Add Java Script for button “Precedence task setting” at “On Enter” , visible in Mode “Update” & “View”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/PMS/SetPrecedence.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClass
Id()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
if (hWindow != null)
    hWindow.focus();
```


9. User Maintenance

1. Launch User Maintenance
2. Create Groups:
 - Project Manager
 - Project Leader
 - Project Engineer
3. Create Users:
 - Project Manager, belongs to group Project Manager
 - Project Leader, belongs to group Project Leader
 - Engineer1~5, belongs to group Project Engineer
4. Add Project Leader role with User Maintenance
5. Set SMARTPROJECT authorizations for the 3 SMARTPROJECT groups User Maintenance
 - Project Manager
 - Project Leader
 - PMS Engineer

10. Configuration Settings

Ds.Bpc.SMARTPROJECT.config.xml at "C:\Program Files\SmarTeam\ConfigurationSettings\Data\Domain\" and "C:\Program Files\SmarTeam\ConfigurationSettings\Data\System\smarteam#\$\$\$0926BE6E9FED4551A69845E4C9D3634F"

Tag Name	Explanation
License	License server name. SmartProject license service should be running in this machine.
SMTP	SMTP server name. Mail sending service should be running in this machine.
SmarTeamServer	SmarTeam Web server name. It will be used to generate URL.
SCH_UPDATE	This is used for compatibility with old version. Set False.
PRJ_CLASS	Project class name
PRJ_FOLDER_CLASS	Project group class name
PRJ_LEAF_CLASS	The name of name Project leaf class that contains link with schedule and deliverables.
PRJ_ID	Field name of Project ID in Projects class
PRJ_CODE	Field name of Project Code in Projects class
PRJ_NAME	Field name of Project Description in Projects class
PRJ_START	Field name of Project Start Date in Projects class

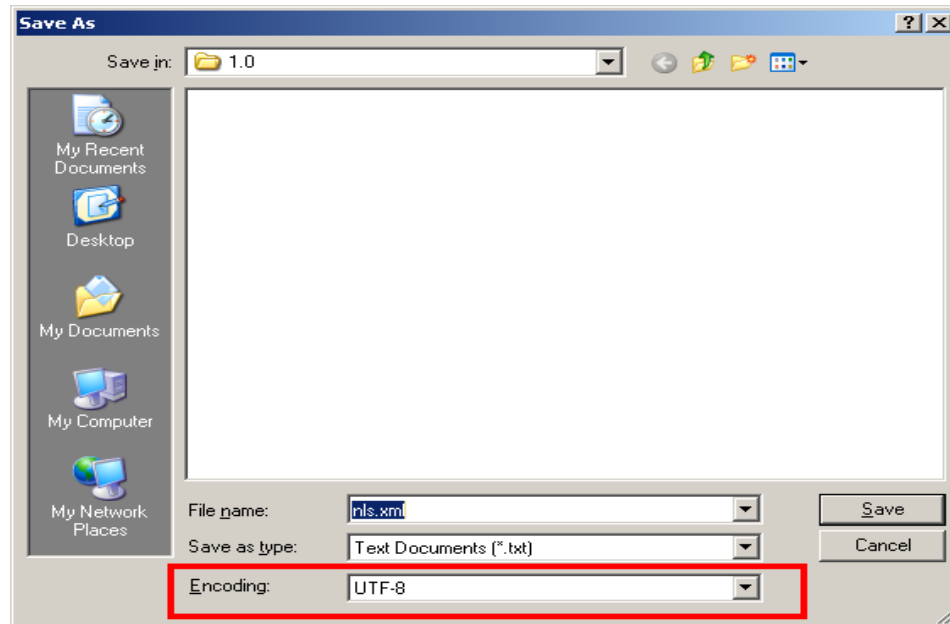
PRJ_END	Field name of Project End Date in Projects class
PRJ_SEQUENCE	Sequence name is being used for Projects class
DOC_CLASS	Document class name
DOC_FOLDER_CLASS	Folder Class Name
DOC_ID	Field name of Document ID in Projects class
DOC_NAME	Field name of Document name in Projects class
DOC_SEQUENCE	Sequence name is being used for Documents class
PMS_CLASS	PMS Class Name
PMS_ID	Field name of PMS ID in PMS class
PMS_NAME	Field name of Project Description in Documents class
PMS_SEQUENCE	Sequence name is being used for PMS class
TASK_CLASS	The name of Task class that is used as leaf object in tree.
PMS_PRJ_REL	Relation class name linking PMS and Projects class
USR_PRJ_REL	Relation class name linking Users and Projects class
PMS_DOC_REL	Relation class name linking PMS and Documents class
DOC_PRJ_REL	Relation class name linking Documents and Projects class
DivisionName	User Division Name
NodeName25	Workflow state
NodeName50	Workflow state (In Work)
NodeName75	Workflow state (In Review)
NodeName100	Workflow state (In approval)
targetClassName	Document class Name
linkClassName	Relation class name linking PMS and Documents class
linkProjectClassName	Relation class name linking Documents and Projects class
TreeClassName	Documents Tree Class Name
ID	Document class ID
Name	Document description
ClassName	PMS class Name
field	Issue and solution attribute for PMS Class

11. NLS Settings

Put your English NLS files into selected language's NLS directory:

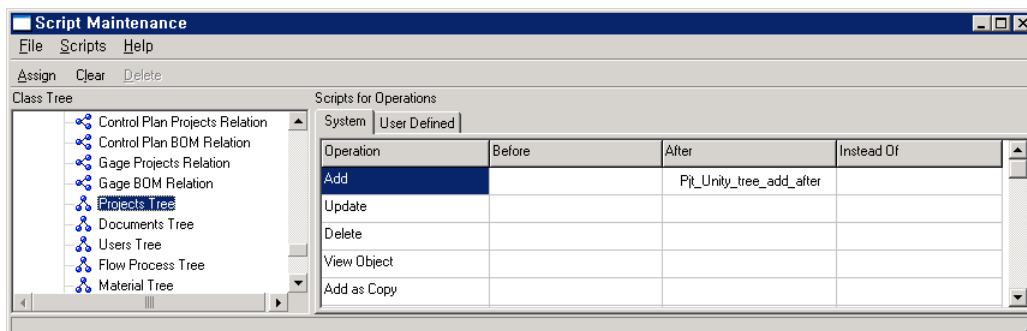
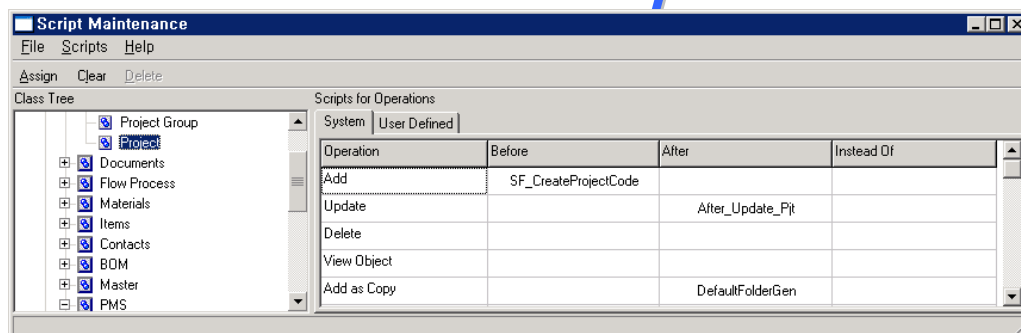
- C:\Program Files\SmarterTeam\NLS\<language code>\Std\Controls\Ds.Bpc.NLS.Controls.SMARTPROJECT\1.0\nls.xml

Please edit the nls.xml by notepad, and make sure the encoding is “UTF-8” if you use double byte language like “zh-tw”.



Please do “IISRESET” if you modify the content of NLS.xml

12. Server Side Scripts:



Class	Operation	Type	Script	Note
Project	Add	Before	SF_CreateProjectCode	
Project	Update	After	After_Update_Pjt	
Documents	Release	After	After_Release_Doc	
Projects Tree	Add	Afrter	Pjt_Unity_tree_add_after	
PMS	Add	Before	Before_Add_PMS	
PMS	Add	After	After_Add_PMS	
PMS	Update	Before	Before_Update_PMS	
PMS	Delete	Instead of	Instead_Delete_PMS	
PMS	Add as Copy	Before	Before_AddAsCopy_PMS	
PMS	Add as Copy	After	After_AddAsCopy_PMS	
PMS	Check out	Before	Before_LifeCycle_PMS	
PMS	Check out	After	After_LifeCycle_PMS	
PMS	Check In	Before	Before_LifeCycle_PMS	
PMS	Release	Before	Before_LifeCycle_PMS	
PMS	New Release	Before	Before_LifeCycle_PMS	
PMS	New Release	After	After_LifeCycle_PMS	
PMS	Obsolete	Before	Before_LifeCycle_PMS	
PMS	Load Life Cycle Screen	Before	Before_LoadLifecycleScreen_PMS	
Task	Update	After	After_Update_Task	
PMS Tree	Add	Before	Before_Add_PMSTree	
PMS Tree	Add	After	After_Add_PMSTree	
PMS Tree	Delete	Before	Before_Delete_PMSTree	
	Delete	After	After_Delete_PMSTree	

