



X-Docx

XINFO INTRODUCTION

SSM INFOTECH SOLUTIONS PVT. LTD.



What is X-info?

- X-info is the software brand of SSM. The brand has a legacy of 14 long years, since first installation of software.
- The product develop under this brand name was Alarm Management System which itself has now around 75% market of India.
- The Software under this brand were develop such that the System are compatible with all DCS and SCADA system available in market.
- At present, our software are widely used by all DCS OEMs i.e Yokogawa, ABB, Invensys , Honeywell etc.
- X-info or X-force Brand comprises of SSM's in-house developed software such as Alaram.
- Management System, Energy Management System , Interface Software , Documentation Node etc.
- These softwares have a proven track of record of large organizations using them.
- Due to X-force or X-info begin our proprietary brand, these software are highly Customizable, according to customer requirements.
- Few softwares complement the other software, such as reporting software which can be used with all other.



Exercise 1: Create Role, create user, assign role to user

Introduction:

Text in this exercise will describe how to create Roles and Users and also to assign Roles to Users. User is an entity who is able to login in the system and access system features. Role defines the set or class of users. According to the Role assigned to user he/she will have access to different features of application.

This is three-step process: (1) Creating User (2) Creating Role (3) Assigning Role to User

Database:

Configuration Database

Database Objects:

Tables:

- 1. tbl_int_user
- 2. tbl_int_Role

Procedure:

1. Create User:

- a. Make entry in tbl_int_user table (One entry per User), for the following fields:

Column	Description
ID	Unique ID for each user
UserHash	Contains Encrypted Password for User.
Status	Indicates whether User is Active or not. If 0 then Inactive and 1 then Active. Only Active user can log in to the system.
Name	Specifies Username for the User.
IsAdmin	If 1 then User is Administrator otherwise normal user. Admin will have access to everything in system.
RoleName	Name of Role assigned to User. This will be from tbl_int_Role
Theme	Specifies theme that will be applied to system for this User.(Office2007, Default, Vista, Web20)
LastURL	This is the URL of System that user has visited before logging out of system.
FlgActiveDirectory	Allow to user to login.



ShowWhat	Which data should be display to user.(All, My Only, All Related).Mostly used All.
Roleid	This will have value of ID field of tbl_int_Role. This will determine the Role of User.
reports_to_id	This is ID of User who is Reporting person for this User
Head_Of_Dept	This is Userid which represent the employee HOD(Head of the department)
Head_Of_Cost_Centre	This is the field which represent the cost center of the employee.
FlgActiveDirectory	If this is True then user can login with outlook login id and password and if it is false then user can login with xinfo login id and password
domainname	Domain name should be ssminfotech.com

Table 1.1: Fields of tbl_int_User

- b. This table also contains other columns, but those are for basic information of user like first_name, last_name etc.

2. Create Role:

Each user will have assigned one role as per his/her Role in the application.

- a. Make entry in tbl_int_Role, for the following important fields:

Column	Description
ID	Unique ID of the Role
Name	Specifies the Name of Role
Enabled	If True then Role is Active otherwise Inactive. Only user belonging to Active Roles can log in to the system

Table 1.2: Fields of tbl_int_Role

Example:

1. Create User:

- a. For creating User named "Pooja" Make entry in tbl_int_user table for the following fields:

Column	Description
ID	dd11f09c-a84c-4cdf-af77-50d2059a77ff



UserHash	4de93544234adffbb681ed60ffcfb941
Status	True
Name	Pooja
IsAdmin	False
RoleName	Standard User
Theme	Office2007
ShowWhat	All
LastURL	~/default.aspx
Roleid	c5b73502-c412-42a3-a6d0-926f1a0ed48d [ID field of Role "Standard User"]
reports_to_id	b6161d19-db81-4b98-91da-e4a3ae0ade14 [ID of user who is reporting person for this user]
FlgActiveDirectory	False

Table 1.3: Entry for Creating User

2. Create Role:

- a. If you want to create new Role named "MyRole" then make entry in tbl_int_Role table for following fields:

Column	Description
ID	70CC2C00-35FC-4386-821C-E379AC6AF331
Name	MyRole
Enabled	True

Table 1.4: Entry for Creating New Role

3. Assign Role to User:

- a. Now you have created user "Pooja" and also role "MyRole". So now you can assign role MyRole to user Pooja.
- b. Just give Value of Id field of Role "My role" for RoleId Field of User "Pooja"



Exercise 2: Create Menu and give rights to user

Introduction:

This portion of the document describes how to create menu and give rights to different users for accessing the created menu.

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_menu
2. tbl_int_MenuRights
3. tbl_int_Role

Procedure:

1. Create Menu:

- a. Make entry in tbl_int_menu, for the following fields (One entry per Menu):

Column	Description
ID	Unique ID of the Menu
ParentID	For ROOT menu item, set this to NULL, otherwise set the ID of parent of menu
Sn	Sequence number of Menu. Decides the order in which menus will be displayed.
Name	Name of Menu
URL	Page URL to be redirected
ImageUrl	Image URL
blnXAdmin	Defines the visibility for Admin.
blnUser	Defines visibility to User

Table 2.1: Fields of tbl_int_Menu

- b. To add Sub Menus we have to make similar entry as of parent menu and give "ID" of Parent menu as "ParentID"

2. Giving rights to created menu:

Even, if the menu has been created, it will not be visible until you assign rights for the menu to the roles already available in the application. Roles defines set or class of

users. So when giving rights for any application object, like Menu, List View, Edit Page, there is no need to give rights to individual user, but assign rights to “Role”, with which the user might already be associated, so that all users belonging to that Role will have similar application features available to access in the application.

- a. Make entry in tbl_int_MenuRights, for the following fields (One entry per Menu):

Column	Description
ID	Unique ID of the MenuRights [Unique ID of the MenuRights Dynamically Generate]
MenuID	Will contain the value of ID field of Menu for which you are assigning rights.
Name	Name of Menu
RoleName	Name of the Role

Table 2.2: Fields of tbl_int_MenuRights

Example:

1. Create Menu:

- a. **Creating Root Menu:** Suppose you want to create menu named “MyFirstMenu” which is the root menu that will be visible in menu bar of the application. Following entries are required to be made in the “tbl_int_Menu” table:

Column	Value
ID	36B30323-35D7-4CBF-869A-2D7206DF774C
ParentID	NULL
SN	2000 [Depends where you want Menu in sequence of Menus. i.e this menu will appear after Menus having SN < 2000]
Name	MyFirstMenu
URL	Listview.aspx?name=MyFirstMenu
ImageUrl	NULL [If you want any image then specify]
blnXAdmin	True [Visible to admin]
blnUser	True [Visible to Users]

Table 2.3: Root Menu Entry

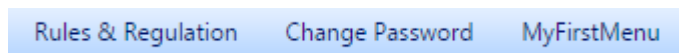


Fig. 2.1: Root Menu on Application menu bar

Note: “MyFirstMenu” is at last as SN values of “Rules & Regulation” and “Change Password” are less than that of “MyFirstMenu” SN value.

b. Creating Sub menus of Root Menu: Now if you want to add two sub menus named “Child Menu1” and “Child Menu2” then following will be entry in tbl_int_Menu:

Column	Value
ID	93B0A914-D7A3-43F9-9B2A-80567E15A16D
ParentID	36B30323-35D7-4CBF-869A-2D7206DF774C [ID of MyFirstMenu]
SN	1
Name	Child Menu1
URL	Listview.aspx?name=ChildMenu1
ImageUrl	NULL [If you want any image then specify]
blnXAdmin	True [Visible to admin]
blnUser	True [Visible to Users]

Table 2.4: Child Menu Entry

In same manner do entry for “Child Menu2”.

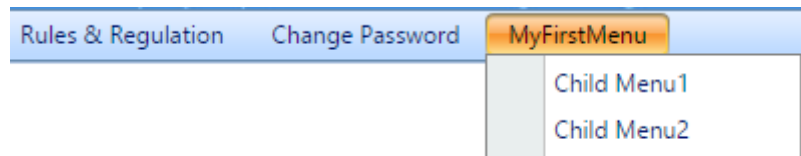


Fig. 2.2: Sub Menu on Application menu bar

2. Giving rights to created menu: Suppose you want to give rights to “MyFirstMenu” which was created above to Role named “Standard User”. Below entry need to be made into the “tbl_int_MenuRights” table:

Column	Value
ID	Unique ID of the MenuRights [Unique ID of the MenuRights Dynamically Generate]
MenuID	36B30323-35D7-4CBF-869A-2D7206DF774C [ID of MyFirstMenu]
Name	MyFirstMenu
RoleName	Standard User

Table 2.5: MenuRights Entry



Notes: *It is necessary to give rights for Parent Menu to the Role which has rights for Child Menu. For example, if you give rights for Menu “MyFirstSubMenu” to Role “Standard User” then you must have to give rights for “MyFirstMenu” to “Standard User”. Otherwise whole Menu bar will be invisible.*

Exercise 3: Create tree static node, tree buttons

Introduction:

This portion of the document describes how to create tree in Xdocx system and how to create tree buttons. Tree is to provide well-structured navigation.

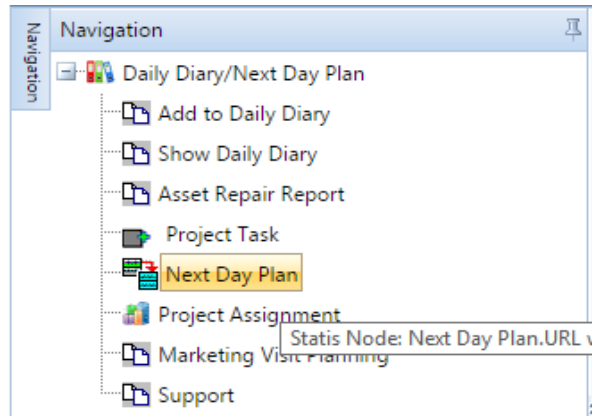


Fig. 3.1: Example of tree

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_tree
2. tbl_int_TreeButtons

Procedure:

1. Create Group Node in tree :

- a. Tree is almost like menu. As Menu contains sub menu by using Parent-Child relationship in same way tree will also use it.
- b. For tree also, you will have to create Root node of tree and other nodes will belong to these root node in this way hierarchy will be created.
- c. To create root node of the tree, do entry in tbl_int_tree for following fields:

Column	Description
ID	Unique ID of tree. <u>It should be numeric otherwise all trees will stop working.</u> The ID of root tree node will be used to link tree with menu.
Name	Name that will be displayed for tree node
NodeType	Can have two values 'Static' or 'Dynamic'. We are creating static node so this should have value 'Static'. If Node type='Static' then node was display according to the user entered detail. If Node type=' group ' then node created on the basis of condition which define by the user.
Srno	Determines the sequence of sibling tree nodes (having common parent node) in which they will appear
ParentID	Specifies ID of Tree which is Parent for this node. The root node will have NULL for this filed
NodeURL	URL to where redirect when clicking this Node
TableName	Define table name when node type is group for fetch data from the databse otherwise NULL
ParentPrimariKey	ParentPrimariKey is the field for represent the primary key of the table
ForeignKey	ForeignKey of the table
WhereBy	If any where condition needed then write in this column.
OrderBy	Write table column name here for asc or dec order.
DisplayFieldName	Display the field name in web from the table.
ValueFieldName	Save the data in databse like id or any other value
ImageID	ID of image that should be displayed as Node icon when Tree initially loaded
SelectedImageID	ID of image that should be displayed as Node icon when Node is selected
ExpandedImageID	ID of image that should be displayed as Node icon when Node is expanded
IsLoad	Determines whether to load tree chिल्ds by default or not. 1 for default load 0 otherwise

Table 3.1: Fields of tbl_int_tree

Note: - You will find the ID for ImageID, SelectedImageID and ExpandedImageID from tbl_int_Icon table which contains URLs for various ICON images. For provide Custom icon then enter the data in tbl_int_Icon:-

Column	Description
ID	Unique Id of icon
Deleted	
IsSystem	
ImageName	Name of Image
ImagePath	Path of Image where image is stored

Example:

ID	9
Deleted	0
IsSystem	0
ImageName	device.bmp
ImagePath	images/tree/

- d. To create Child nodes make entry similar to Entry of Root node except give ID of Parent node for ParentID field of child node.

2. Creating Tree Buttons:

- a. When you right click mouse button on tree node then the context menu will be shown. Tree Buttons are buttons that will be shown in that context menu.
- b. To create tree button do entry in tbl_int_TreeButtons, for following fields:

Column	Description
ID	Unique ID of the TreeButtons
Deleted	
IsSystem	
ParentID	Id of the Tree from tbl_int_tree for which you want tree button
BtnSeqNo	Sequence Number of button for determining the sequence when there are more than one buttons
Name	Button Name that will be displayed
BtnLink	Link to where the button should redirect
ImageUrl	URL to image that should be displayed as button Icon
IsSeparator	The tree button can act as i) Button: for linking ii) Separator: which will create separation in context menu

Table 3.2: Fields of tbl_int_TreeButtons

3. Link your tree with menu:

- a. Now your tree is ready it will not be displayed in navigation panel until you link it with your menu. Give URL of this tree in URL field of Menu.

Note: - Format for tree URL: Default.aspx?TreeID=[ID of the Root node of the Tree]

Example:

1. Create tree:

- a. **Creating Tree Root Node:** Suppose you want to create tree root node named "MyTree" then following will be entry in tbl_int_tree:

Column	Description
ID	1025788(only numeric value should allow)
Deleted	
IsSystem	
Name	MyTree
NodeType	Static
Srno	NULL [These is Root node so not required]
ParentID	NULL [These is Root node so not required]
NodeURL	REDIRECT#[URL to which you want to redirect]
ImageId	24 [Image ID for listview.bmp icon image]
SelectedImageID	24
ExpandedImageID	24
IsLoad	1 [Childs will be by default loaded with Page load. At the time of Clicking on this node they will be just displayed]

Table 3.3: Root Tree Node Entry "MyTree"

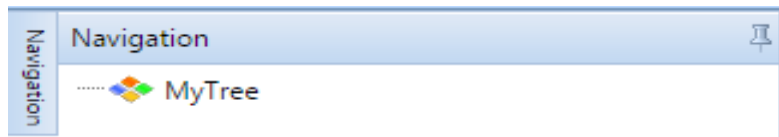


Fig. 3.1: Root Menu on Application Navigation Panel

- b. **Creating sub tree (nodes) of Root tree node:** Now if you want to add two sub nodes named "Child Node1" and "Child Node2" then following will be entry in tbl_int_Menu:

Column	Description
ID	1025789
Deleted	0
IsSystem	0
Name	Child Node1
NodeType	Static
Srno	1
ParentID	1025788 [ID of MyTree]
NodeURL	REDIRECT#[URL to which you want to redirect]
ImageId	24 [Image ID for listview.bmp icon image]
SelectedImageID	24
ExpandedImageID	24
IsLoad	1 [Childs will be by default loaded with Page load. At the time of Clicking on this node they will be just displayed]

Table 3.4: Child Tree node Entry “Child Node1”

In same manner do entry for “Child Node2”.

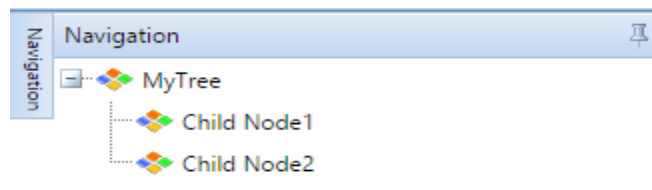


Fig. 3.2: Sub Tree nodes on Application Navigation Panel

3. Link your tree with menu:

a. Now your tree has been created, it’s time to give link in your menu for your tree.

b. Here your TreeID will be 1025788 (ID of your root node). Use the format for tree URL mentioned before. So your Tree’s link will be:

Default.aspx?TreeID=1025788

c. Give this link as value of **URL** field of your Menu i.e “MyFirstMenu” on which’s click your tree should be opened in Navigation Panel.

2. Create Tree Buttons:

- a. Now your Tree Node has been created.
- b. To Creating Tree Button named “Add New”, in Tree node then following will be entry in tbl_int_TreeButtons:

Column	Description
ID	1D3F4FE3-14D1-43A0-A89F-B26CBC383B7E
Deleted	0
IsSystem	0
ParentID	1025789 [ID Of Child Node1]
BtnSeqNo	10
Name	Add New
BtnLink	edit.aspx?name=employee&pagemode=insert&id=<record.id>
ImageUrl	edit.bmp
IsSeparator	False

Table 3.5: TreeButton Entry “Add New”

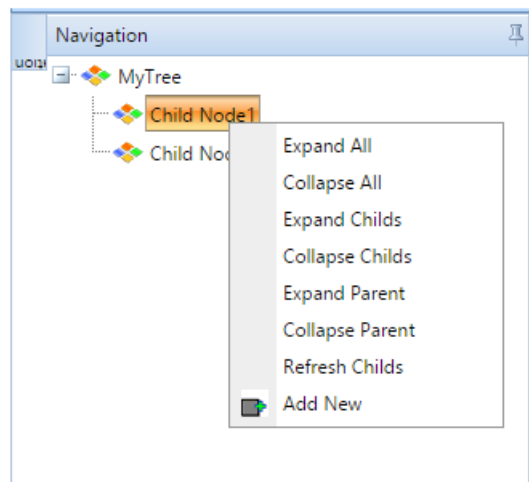


Fig. 3.3: Tree Button in Tree Node

Note: - If Create Tree Button in Tree Node and that is Separator then in that entry Tree Button Name Value is Null and IsSeparator Value True

Exercise 4: Tree, Group Node

Introduction:

This portion of the document describes how to create Group Node in Tree. Tree is to provide well-structured navigation. We want to Table particular field Data Display in Tree that time Group Node is used.

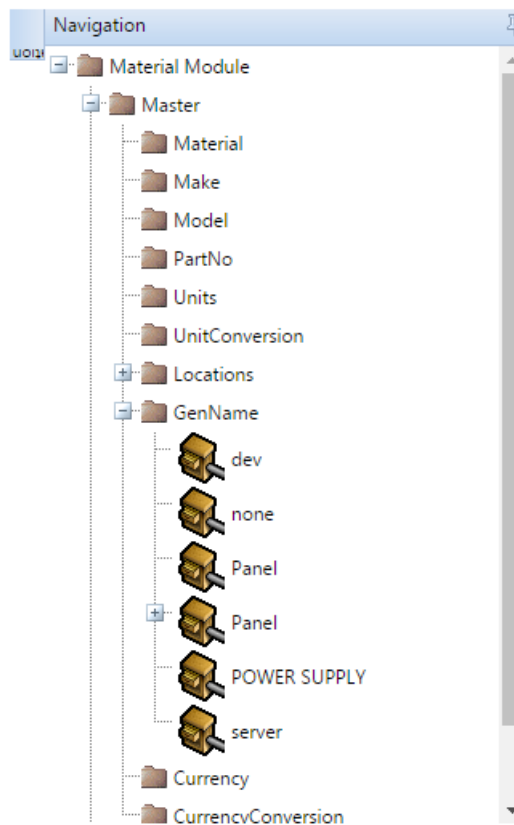


Fig. 2.1: Example of Group Node

Database:

Configuration Database

Database Objects:

Tables:

3. tbl_int_tree

Procedure:

2. Create Group Node in Tree :

- a. To create Group Node in the tree, that time Group Node NodeType is Group and that Group Node Parent Node NodeType is Static.
- b. To create Group Node in the Tree entry in tbl_int_tree for following fields:

Column	Description
ID	Unique ID of tree. <u>It should be numeric otherwise all trees will stop working.</u> The ID of root tree node will be used to link tree with menu.
Srno	Determines the sequence of sibling tree nodes (having common parent node) in which they will appear
ParentID	Specifies ID of Tree which is Parent for this node. The root node will have NULL for this filed
Deleted	?
IsSystem	?
Name	Name that will be displayed for tree node
NodeType	Group
TableName	Name of the table where you want to Display data
DisplayFieldName	Fieldname which you want to display in Tree
ValueFieldName	Fieldname Of Primary Key
NodeURL	URL to where redirect when clicking this Node
WhereBy	Expression for filtering data from TableName
OrderBy	OrderBy fieldname from TableName
ImageID	ID of image that should be displayed as Node icon when Tree initially loaded
SelectedImageID	ID of image that should be displayed as Node icon when Node is selected
ExpandedImageID	ID of image that should be displayed as Node icon when Node is expanded
IsLoad	Determines whether to load tree childs by default or not. 1 for default load 0 otherwise

Table 2.1: Fields of tbl_int_tree

Note: - You will find the ID for ImageID, SelectedImageID and ExpandedImageID from tbl_int_Icon table which contains URLs for various ICON images.

Example:

1. Create Group Node in Tree:

- a. **Creating Tree Group Node:** Suppose You wants to create Group Node Type in tree then do following entry in tbl_int_tree :

Column	Description
ID	1261
Srno	10
ParentID	1262 (ID Of Parent Node and that Node Type is Static)
Deleted	0
IsSystem	0
Name	Tablet
NodeType	Group
TableName	TabletMst
DisplayFieldName	Name
ValueFieldName	ID
NodeURL	REDIRECT#listView.aspx?name=Tablet&recordid={3}
WhereBy	Deleted=0
OrderBy	Name
ImageId	15[Image id for icon Image]
SelectedImageID	15
ExpandedImageID	15
IsLoad	1

Table 2.2: Entry of Tree Group Node "Tablet"

Following figure show that how Group Node Type in tree look like at user side:

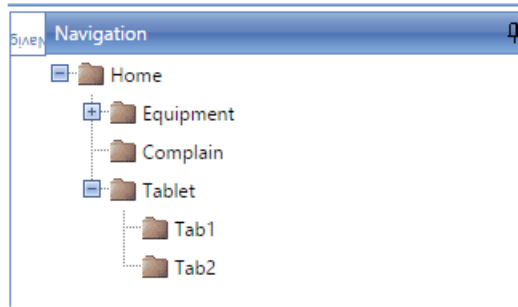


Fig. 4.1: Example of Tree Group Node "Tablet"



Exercise 5: Create function and Module

Introduction:

Module AllowEdit, AllowView, AllowVisit, AllowDelete, AllowAdd Rights Assign to Role So, Module Create and For Give Right to EditPage and Listview So, Create Function and Module have multiple functions.

What is Module?

What is function?

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_Module
2. tbl_int_function
3. tbl_int_LV
4. tbl_int_edit

Procedure:

1. Create Module:

- a. To create Module, do entry in table tbl_int_Module for following fields:

Column	Description
ID	Unique ID of the Module
Name	Name of the Module

Table 4.1: Fields Of tbl_int_Module

2. Create Function:

- a. To create Function, do entry in table tbl_int_function for following fields:

Column	Description
ID	Unique ID of the Function
Name	Name of the Function
ParentID	It should be ID of the Module (tbl_int_Module)
Srno	Sequence number of Function. Decides the order in which Function will be displayed.
LvlId	It should be Id Of Listview(Describe in below section)
EditId	It should be Id Of Edit Page(Describe in below section)
Allow Access	By Default Value is _00
Count	By Default Value is &10&20&30&40&50&60

Table 4.2: Fields Of tbl_int_function

Example:

1. Create Module:

- a. To create Module, do entry in table tbl_int_Module for the following fields:

Column	Description
ID	WSSDFGRTYHVDFGHGJLEDCSDFGH2222
Name	Users

Table 4.3: Entry for Creating Module

**2. Create Function:**

a. To create Function, do entry in table tbl_int_function for following fields:

Column	Description
ID	XCVFGBHJNKLMTYUJ456123RFT5689
Name	Employee
ParentID	WSSDFGRTYHVDFGHGJLEDCSDFGH2222 [ID Of "Users" Module]
Srno	NULL [not required]
TableName	NULL [not required]
ViewName	NULL [not required]
LvId	BFB55F91-AAE4-41C7-99C6-2E2BEC4443D0 [Id Of "employee" Listview]
EditId	3B48B7A9-8F80-445C-8CAF-6E0101C4009B [Id Of "employee" Edit Page]
Allow Access	_00
Count	&10&20&30&40&50&60

Table 4.4: Entry for Creating Function



Exercise 6: Assign module to Role

Introduction:

To Particular Module Assign to Role for Assign Rights like AllowEdit, AllowView, AllowVisit, AllowDelete, AllowAdd for access editpage and Listview so, in tbl_int_Role_Module Table to particular module assign to Role.

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_Role
2. tbl_int_function
3. tbl_int_Role_Module

Procedure:

1. Assign module to Role:

- a. Now your Module and Function has been created.
- b. To Particular Module Assign to Role for Assign Rights for access editpage and Listview So, Module, Function, EditPage and Listview and Role Required.
- c. To Particular Module Assign to Role do entry in tbl_int_Role_Module, for following fields:

Column	Description
ID	Unique ID of the Role_Module.
RoleID	This will have value of ID field of tbl_int_Role. This will determine the Role of User.
ModuleID	This will have value of ID field of tbl_int_function .
AllowEdit	Set True If assign Edit rights to Role otherwise set False
AllowView	Set True If assign View rights to Role otherwise set False
AllowVisit	Set True If assign Visit rights to Role otherwise set False
AllowDelete	Set True If assign Delete rights to Role otherwise set False
AllowAdd	Set True If assign Add rights to Role otherwise set False
RoleName	Name of Role assigned to User. This will be from tbl_int_Role
ModuleName	Name Of Function .This will be from tbl_int_function .



AllowAll	Set True If assign all rights to Role Like Edit , Delete , View ,Visit and Add Rights otherwise set False
Filter	Expression Filtering the data from Other table Otherwise It should be NULL

Table 5.1: Fields Of tbl_int_Role_Module

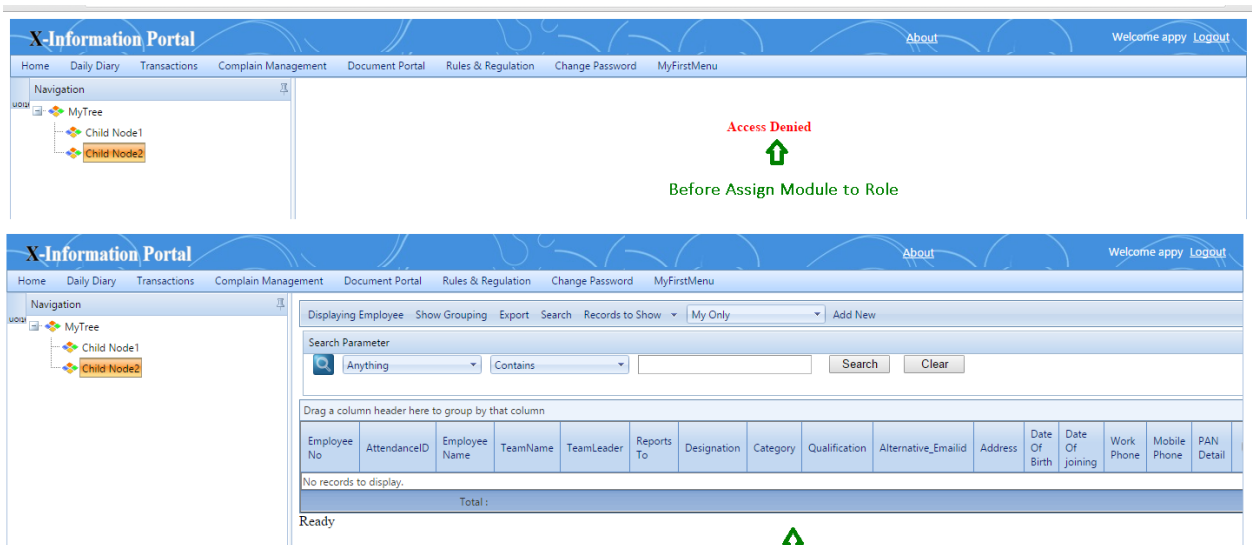
Example:

1. Assign Module to Role:

- a. To Particular Module Assign to Role do entry in tbl_int_Role_Module, for following fields:

Column	Description
ID	118F2AC7-B4FD-4B45-9F6E-DCBE00DCAD25
RoleID	c5b73502-c412-42a3-a6d0-926f1a0ed48d[ID field of Role "Standard User"]
ModuleID	XCVFGBHJNKLMTYUJ456123RFT5689[ID Of "Employee" Function]
AllowEdit	False
AllowView	True
AllowVisit	True
AllowDelete	False
AllowAdd	False
RoleName	Standard User[Name Of Role]
ModuleName	Employee[Name Of Function]
AllowAll	False
Filter	NULL

Table 5.2: Entry of Assign Module to Role



After Assign Module to Role and Assign AllowView and AllowVisit Rights

Fig 5.1: Assign Module to Role



[Exercise 7: Create List View, lvcols, lvbuttons, lvgroup, lvformatting](#)

Introduction:

ListView is the feature of the application which allows to show meaning full report kind of data to be shown in well-structured manner. You can show your database tables and views data according to your requirement. It will generally show some columns of table or view or select query. General format for ListView URL is:

`ListView.aspx?name=[Name of ListView]`

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_LV
2. tbl_int_LVCols
3. tbl_int_LVButtons
4. tbl_int_lvGroups
5. tbl_int_LVFormatting
6. Database tables or Views or Selection queries

Procedure:

1. Create ListView:

a. **Creation of ListView page:** Do following entry in tbl_int_LV for each ListView page:

Column	Description
ID	Unique ID of the Listview
Name	Name of the ListView
Description	This field is used to display name of Listview at User side. (Normally it is same as Name)
ParentID	It should be ID of the Function (tbl_int_function) which already has role assigned to it.
ViewName	Name of the database View or table that will be used. Instead of View you may also specify select query here.
Tablename	NULL
OrderByField	Name of field according to which the result should be in ordered/sequence.
OrderByDirection	Will have value: 'acs' for ascending ordering and 'desc' for descending ordering.
WhereCondition	Specify where condition on your View or Table used to get result according to your requirement.
Showtop	Will have Numeric value that determines how much top records of the result should be shown
IsdefaultLoadReport	
Isload	If 1 then on loading page the data will also be loaded. Otherwise the data will be loaded on clicking search button.

Table 7.1: Fields of tbl_int_LV

NOTE: TO Display table or view data in listview then set IsSystem and deleted value= 0 in data table or view.

b. . From above procedure the ListView will be created but it doesn't contain any columns to show. So, which columns should be shown on ListView you have to make entry in tbl_int_LVCols as follows:



Column	Description
ID	Unique ID of the Of LVCols
ParentID	ID of ListView to which this column should belong to.
Sr	Determines the sequence in which columns should be displayed
Name	Name of the field from View, Table or Select query which is in ViewName field of ListView
ColLabel	Header of the Column
OutputFormat	For Columns having values like Date, you can specify output format here. i.e. dd-MMM-yyyy
DataType	Will have one of the following values: <u>String</u> , <u>Date</u> , <u>Numeric</u> , <u>link</u> and <u>appstatus</u> based on which kind of value our field of database View has.
SummaryType	Here you can specify Aggregate functions of sql like sum, count etc. If you apply this thing then DataType must have value 'appstatus'.
PrimaryKey	True if column is Primary Key otherwise false.
Visible	True if column should be visible, false otherwise.
colLink	URL to what should be opened when clicking this column.
colLinkField	Specifies that, If this column's datatype is link then when clicking on column view's which field value should be passed on target page.
LinkTarget	If True then the target link will be opened in new browser tab.
SingleColumn	
flgSearchable	
flgDefaultSearch	
flgSearchInAnything	

Table 7.2: Fields of tbl_int_LVCols

2. Creating LV Buttons:

- a. Now your ListView has been created.
- b. To create LV Button do entry in tbl_int_LVButtons, for following fields:

Column	Description
ID	Unique ID of the LVButtons
ParentID	Id of the ListView for which you want to button
BtnSeqNo	Sequence Number of button for determining the sequence when there are more than one buttons
Name	Button Name that will be displayed
BtnLink	Link to where the button should redirect
ImageUrl	URL to image that should be displayed as button Icon
IsSeparator	The Listview button can act as i) Button: for linking ii) Separator: which will create separation in context menu
Control Type	Name of control which you want to use like Button and dropdown etc.

Table 7.3: Fields of tbl_int_LVButtons

3. Create LVGroup:

- a. Some time you may want grouping (as Group By in sql) functionality on some of the columns of your ListView by default.
- b. To create this kind of grouping on LVColumns you can use LVGroup.
- c. To create LVGroup do entry in table tbl_int_lvGroups for following field:

Column	Description
ID	Unique ID of the LVGroup
ParentID	Id of the ListView on which you want to Grouping
Sn	When Grouping is on Multiple columns of ListView according to Sn grouping priority is decided
Name	Name of the LVColumn by which you want grouping.

Table 7.4: Fields of tbl_int_lvGroups

4. Create LVformatting:

- a. In reports there is often requirement that when some condition become true for any record then that record should be highlighted with some color.
- b. LVFormatting provides this feature. You can create LVFormatting for any LVColumn By specifying condition for that column.
- c. Whenever that column will have specified condition true your LVFormatting will be applied:

Column	Description
ID	Unique ID of the LVformatting
ParentID	Id of the ListView on which you want to LVFormatting
Sn	When LVFormatting is on Multiple columns of ListView according to SN priority is decided
Name	Name of the LVColumn by which you want formatting
ColType	LVColumn datatype that you have specified in ListView
logicOperator	Specify SQL relational or logic operator here like =, <=, like, >,< etc.
ColValue	The Operator will be applied on LVColumn and Value specified in this field. i.e if logicOperator is '=' and ColValue is 10 then LVColumns value will be compared with 10.
Style	Provide CSS style to lv_column.

Table 7.5: Fields of tbl_int_LVFormatting

Example:

1. Create ListView:

- a. **Creation of ListView page:** To create ListView from view vw_Emp table in database do following entry in tbl_int_LV:



Column	Description
ID	BFB55F91-AAE4-41C7-99C6-2E2BEC4443D0
Name	employee
Description	employee
ParentID	XCVFGBHJNKLMTYUJ456123RFT5689 [ID of function]
ViewName	vw_emp(view name or table name which was created in data table.)
Tablename	NULL
OrderByField	date_entered
OrderByDirection	Desc
WhereCondition	NULL
IsDefaultLoadReport	False
Showtop	500
Isload	NULL

Table 7.6: Entry of tbl_int_LV for Listview "employee"



- b. Now Listview named “employee” has been created. To add columns to it do entry in tbl_int_LVcols as follows:

Column	Description
ID	42134
ParentID	BFB55F91-AAE4-41C7-99C6-2E2BEC4443D0 [Id of employee ListView]
Sr	25
Name	EmpName [Column of vw_emp]
ColLabel	Employee Name
OutputFormat	NULL
DataType	String
SummaryType	NULL
PrimaryKey	False
Visible	True
colLink	NULL
colLinkField	NULL
LinkTarget	NULL
SingleColumn	0
flgSearchable	True
flgDefaultSearch	False
flgSearchInAnything	False

Table 7.7: Entry in tbl_int_LVcols for field ‘EmpName’

Employee No	AttendanceID	Employee Name	TeamName	TeamLeader	Reports To	Designation	Category	Qualification
1053	1053	Mitesh Mistry	Customized	Bijal.Desai		Jr. Developer	Software Developer	B.E./B.Tech
1052	1052	Jignesh Patel	DON	Preeti_Mathur		Jr Developer	Software Developer	M.CA

Fig 7.1: ListView ‘employee’

2. Creating LV Buttons:

- a. Now your ListView has been created.
- b. To create LV Buttons named ‘Add New’ do entry in tbl_int_LVButtons, for following fields:

Column	Description
ID	E6F46A04-85BE-4C30-ADB2-2BD6A62E99B7
ParentID	BFB55F91-AAE4-41C7-99C6-2E2BEC4443D0(ID Of employee Listview)
BtnSeqNo	10
Name	Add New
BtnLink	edit.aspx?name= employee&pagemode=insert
ImageUrl	NULL[If you want any image then specify]
IsSeparator	False
Control Type	Button

Table 7.8: Entry in tbl_int_LVButtons for button “Add New”

3. Create LVGroup:

- a. To create LVGroup on ListView “employee” for EmpName field, do entry in table tbl_int_lvGroups for following field:

Column	Description
ID	67B17400-5807-4354-8F8C-A511A7310EDB
ParentID	BFB55F91-AAE4-41C7-99C6-2E2BEC4443D0(Id Of employee Listview)
Sn	1
Name	EmpName

Table 7.9: Entry in tbl_int_LVGroups



Employee No	AttendanceID	Employee Name	TeamName	TeamLeader	Reports To	Designation	Category	Qualification	Alternative_Emailid
Employee Name: Aarti Baid; Count: 1									
Employee Name: Abhishek Chauhan; Count: 1									
Employee Name: Aditya Trivedi; Count: 1									
Employee Name: Ajay Chaurasiya; Count: 1									
Employee Name: Ajay Mistry; Count: 1									

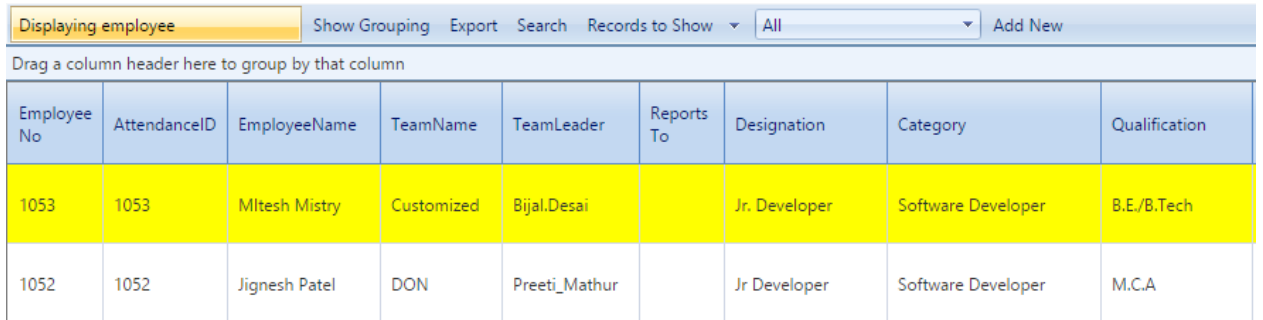
Fig 7.2: Fields of tbl_int_LVGroups

4. Create LVformatting:

- a. Suppose you want to highlight records in LV when EmpName is starting from 'M' then do following entry in tbl_int_LVFormatting:

Column	Description
ID	48285D20-D1E7-4C55-B77A-BFD7D511A597
ParentID	BFB55F91-AAE4-41C7-99C6-2E2BEC4443D0(ID Of employee Listview)
Sn	1
Name	EmpName
ColType	String
logicOperator	Like
ColValue	M%
Style	background-color:yellow;

Table 7.10: Entry of tbl_int_LVFormatting



The screenshot shows a list view interface for 'Displaying employee'. It includes a toolbar with 'Show Grouping', 'Export', 'Search', 'Records to Show' (set to 'All'), and 'Add New'. Below the toolbar is a table with columns: Employee No, AttendanceID, EmployeeName, TeamName, TeamLeader, Reports To, Designation, Category, and Qualification. The first row, containing data for employee 1053 (Mitesh Mistry), is highlighted in yellow. The second row (employee 1052) is not highlighted.

Employee No	AttendanceID	EmployeeName	TeamName	TeamLeader	Reports To	Designation	Category	Qualification
1053	1053	Mitesh Mistry	Customized	Bijal.Desai		Jr. Developer	Software Developer	B.E./B.Tech
1052	1052	Jignesh Patel	DON	Preeti_Mathur		Jr Developer	Software Developer	M.C.A

Fig 7.3: LVFormatting on EmployeeName

Exercise 8: Create link in LVcols

Introduction:

Sometimes you may desire that, when clicking on any Column value in ListView it should redirect you to some specific Page. This can be done by creating link in LVcols.

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_LV
2. tbl_int_LVcols

Procedure:

1. Create link in LVcols:

- a. To create link on any LVColumn you will have to modify its entry in tbl_int_LVcols table. Change following entries:

Column	Change To
DataType	Link
colLink	Link that should be opened
colLinkField	Name of LVCol that's value should be passed to target page if required
LinkTarget	True if want target in new tab Otherwise False.

Table 8.1: Change required in LVcols

Example:

1. Create link in LVcols:

- a. If you want to create link on EmployeeName LVColumn of ListView Employee then Change following entries for LVColumn entry of EmpName field:



Column	Change To
DataType	Link
colLink	edit.aspx?name=employee&pagemode=edit&recordid={0}
colLinkField	Id
LinkTarget	True

Table 8.2: Change required in LVCols

The screenshot shows a table interface with a header bar containing 'Displaying employee', 'Show Grouping', 'Export', 'Search', 'Records to Show' (dropdown), 'All' (dropdown), and 'Add New'. Below the header is a prompt: 'Drag a column header here to group by that column'. The table has 8 columns: Employee No, AttendanceID, EmployeeName, TeamName, TeamLeader, Reports To, Designation, and Category. The first row contains the following data: Employee No: 1053, AttendanceID: 1053, EmployeeName: [Mltesh Mistry](#), TeamName: Customized, TeamLeader: Bijal.Desai, Reports To: (empty), Designation: Jr. Developer, Category: Software Developer.

Employee No	AttendanceID	EmployeeName	TeamName	TeamLeader	Reports To	Designation	Category
1053	1053	Mltesh Mistry	Customized	Bijal.Desai		Jr. Developer	Software Developer

Fig 8.1: LVCols Link on EmployeeName

Exercise 9: Create View page

Introduction:

View Page is the feature of the application which allows to show meaning full report kind of data to be shown in well-structured manner. You can show your database tables and views data according to your requirement. It will generally show some columns of table or view or select query. ViewPage Create using Listview General Format for View Page URL is:

View.aspx?name=[Name of ListView]

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_LV
2. tbl_int_LVCols
3. tbl_int_ViewButtons

Procedure:

1. Create View Page:

- a. To Create View Page Listview is required and Where You will pass the URL like in TreeButton , in Menu , in Tree , in LvCols ,in Edit Page , in LvButtons, etc. in that you will write Following URL for Create View Page

REDIRECT#view.aspx?name=[Name Of Listview]

2. Creating View Buttons:

- a. Now your View Page has been created.
- b. To create View Button do entry tbl_int_ViewButtons, for following fields:

Column	Description
ID	Unique ID of the ViewButtons
ParentID	Id of the ListView for which you want button
BtnSeqNo	Sequence Number of button for determining the sequence when there are more than one buttons
Name	Button Name that will be displayed

BtnLink	Link to where the button should redirect
ImageUrl	URL to image that should be displayed as button Icon
IsSeparator	The View button can act as i) Button: for linking ii) Separator: which will create separation in context menu
Control Type	Name of control which you want to use like Button and dropdown etc.

Table 9.1: Fields of tbl_int_ViewButtons

Example:

1. Create View Page:

- a. If you want to Show View Page in Tree then Change following entries for View Page Entry of Child Node2 in tbl_int_tree Table:

Column	Change To
Name	Child Node2
NodeURL	<u>REDIRECT#view.aspx?name=prjtask&Filter=id='002f2d27-035d-4727-86da-781e989d9efb'</u>

Table 9.2: Change required in tbl_int_tree

NOTE: Filter was used for filtering the value of view page according to user selected value or user request.

2. Creating View Buttons:

- a. Now your View Page has been created.
- b. To create View Buttons named 'Add New' do entry in tbl_int_ViewButtons, for following fields:

Column	Description
ID	4BE71396-A0E2-4686-B621-80634BA72740
ParentID	5817F727-9903-4D87-B73E-58E14307A14F[Id of "prjtask" the ListView]
BtnSeqNo	40
Name	Add New
BtnLink	edit.aspx?Name=prjtask&pagemode=insert&id=<record.id>
ImageUrl	NULL[If you want any image then specify]
IsSeparator	False
Control Type	button

Table 9.3: Entry of 'Add New' View Button

When filter is not use in NodeURL:

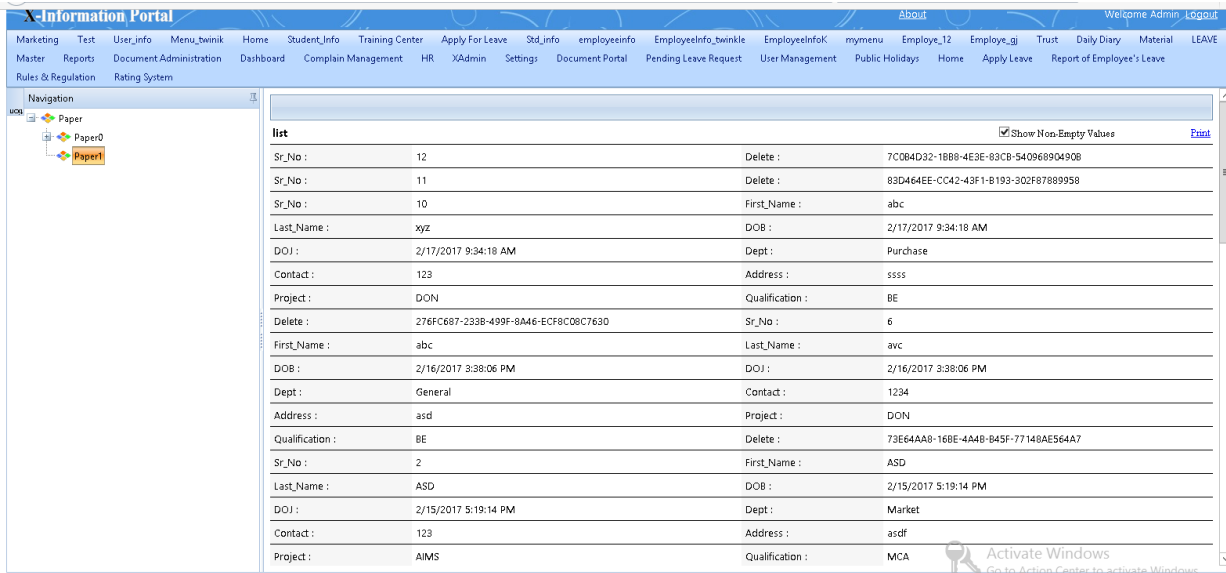


Fig 9.1: View Page with ViewButton

When use filter in NodeURL:

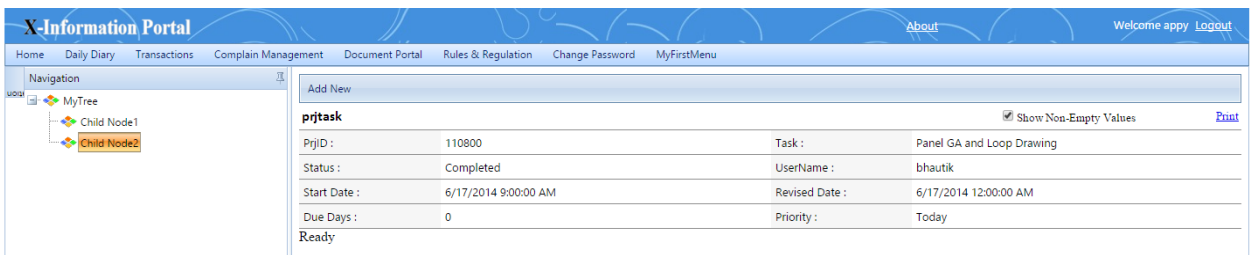


Fig 9.1: View Page with ViewButton and using filter condition



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