|  |
| --- |
| DXC Technology |
| Code Style Guide |
| PLM Automation VB Script |

|  |
| --- |
| Jijun Niu  9-27-2017 |

History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | Author | Date | Reviewer | Comments |
| 1.0 | Jijun Niu | 9-26-2017 | Li, Yong | Initial |

Contents

[1. Naming Convention 2](#_Toc494236650)

[1.1. Variables 2](#_Toc494236651)

[1.1.1. Local Variables and Parameters 2](#_Toc494236652)

[1.1.2. Global Variables 2](#_Toc494236653)

[1.1.3. Constant 2](#_Toc494236654)

[1.1.4. Class Member 2](#_Toc494236655)

[1.2. Functions 3](#_Toc494236656)

[1.2.1. Application Functions 3](#_Toc494236657)

[1.2.2. Utility Functions 3](#_Toc494236658)

[1.3. Object Repository 3](#_Toc494236659)

[1.3.1. Object Repository File Name 3](#_Toc494236660)

[1.3.2. Object Repository Name 3](#_Toc494236661)

[1.3.3. Controls 3](#_Toc494236662)

[1.4. Business 4](#_Toc494236663)

[2. Comment Templates 5](#_Toc494236664)

[2.1. File Header Comments Template 5](#_Toc494236665)

[2.2. Function Header Comments Template 5](#_Toc494236666)

[2.3. Inline Comments 5](#_Toc494236667)

[3. Code Formatting 5](#_Toc494236668)

[4. Code Snippets 6](#_Toc494236669)

[4.1. Instantiate All Object of a Class 6](#_Toc494236670)

[4.2. Define properties in a related class 6](#_Toc494236671)

[4.3. Initialize & Terminate Members of a Main Class 7](#_Toc494236672)

# Naming Convention

## Variables

All variables and parameters for VB script apply to Hungarian casing.

### Local Variables and Parameters

**Pattern:** Private <Object Type><Variable Name>

**Example:** sEnvironment [s:- String]

nCount [n:- Number]

bIsCitrix [b:- Boolean]

For purposes of readability and consistency, use the following prefixes with descriptive names for variables in your VBScript code.

|  |  |  |
| --- | --- | --- |
| **Subtype** | **Prefix** | **Example** |
| Boolean | b | blsFound |
| Date (Time) | dtm | dtmStart |
| String | s | sFirstName |
| Number | n | nCount |
| Array | arr | arrMyArray |
| Object | obj | objTestInventory |

### Global Variables

**Pattern:** Public g\_<Object Type><Variable Name>

**Example:** Public g\_sBrowserType

**Pattern:** Page url g\_<page Name>Page\_url

**Example:** Public g\_createPage\_url

**File Location**: PG\_QA >> Script >> Applications >> Utility >> GlobalVars

### Constant

**Pattern:** All Caps

**Example:** I\_CANT\_BE\_CHANGED

### Class Member

**Pattern:** Set m\_<Object Type><Variable Name>

**Example:** m\_sFullPath

*Detail example see* [*Initialize & Terminate Members of a Main Class*](#_Initialize_&_Terminate) *please.*

## Functions

All functions for VB script apply to Pascal casing.

### Application Functions

**Pattern:** Function <Application><Project>\_<Function Name>(parameters..)

**Example:** Function EnoviaPDT\_ValidateParts(iPartNumber)

### Utility Functions

**Pattern:** Function <Utility Name>\_<Function Name>(parameters…)

**Example:** Function Excel\_ObjOpenADODBConnectionToExcel(sExcelFileName)

Function DB\_OpenDBConnection()

## Object Repository

All object repository for VB script apply to Pascal casing.

### Object Repository File Name

**Pattern:** OR\_<Application Name>

**Example:** OR\_Enovia

**File Location**: PG\_QA >> Script >> Applications >> ObjectRepository >> OR\_Enovia

### Object Repository Name

**Pattern:** OR\_<Application><Project>\_<Description Of Container Of the Control><Control>

**Example:** OR\_EnoviaPDT\_LocationDescType

OR\_EnoviaPDT\_TablesAddBtn

OR\_EnoviaLogin\_UserNameEdt

*<Control>: The control’s abbreviation refer to the table in* [*1.3.3 Controls*](#_Controls)

### Controls

See list of abbreviation of controls in next page.

|  |  |  |
| --- | --- | --- |
| **Control Object Type** | **Abbre.** | **Example** |
| 3D Panel | Pnl | pnlGroup |
| Animated button | Ani | aniMailBox |
| Check box | Chk | chkReadOnly |
| Combo box | Cmb | cmbEnglish |
| Drop-down list box | Drp | DrpLocation |
| Command button | Cmd | cmdExit |
| Common dialog | Dlg | dlgFileOpen |
| Frame | Fra | fraLanguage |
| Horizontal scroll bar | Hsb | hsbVolume |
| Image | Img | imgIcon |
| Label | Lbl | lblHelpMessage |
| Line | Lin | linVertical |
| List Box | Lst | lstPolicyCodes |
| Spin | Spn | spnPages |
| Text box | Edt | EdtLastName |
| Vertical scroll bar | Vsb | vsbRate |
| Slider | Sld | sldScale |

## Business

|  |  |  |
| --- | --- | --- |
| **Business Concept** | **Pattern** | **Example** |
| Step | <App><Project>\_S<Set\_Number><Case\_Number>\_S\_<Step\_Name> | *EnoviaDSM\_S05006\_S\_CreateFPP* |
| Test Case | <App><Project>\_S<Set\_Number><Case\_Number>\_<Case\_Name> | EnoviaDSM\_S05006\_CreateFPPandEditAttr |
| Business Process | <App><Project>\_S<Set\_Number>BP\_<Process\_Name> | EnoviaDSM\_S05BP\_CreateFPPandEditAttr |
| Scenario Folder | Set<Set\_Number>\_<Project> | Set05\_DSM |
| Utility File | <App><Project>\_<Description of the Utility>Utility | EnoviaDSM\_<module>Utility |

# Comment Templates

Developers shall add comments at the header of each file and function. Apply following templates please.

## File Header Comments Template

*'###################################################################################*

*'File Name                :*

*'Description                  :*

*'Author                       : Jijun Niu (jijun.niu@dxc.com)*

*'Creation Date                : 2017-06-01*

*'###################################################################################*

## Function Header Comments Template

*'###################################################################################*

*'Function Name                : Enovia\_ChooseJVM*

*'Description                  : Chooses a JVM from the landing page*

*'Assumption : List of any external variable, control, or other element whose state affects this procedure.*

*'Arguments                    : sUsername: user name.*

*iUserId: user id*

*'Return Value                 : Explanation of the value returned.*

*'Author                       : Jijun Niu (jijun.niu@dxc.com)*

*'Creation Date                : 2017-06-01*

*'Special Conditions           : Enovia has already been launched to the landing page. eg: Enovia\_LaunchEnovia("plmprod-landing")*

*'###################################################################################*

## Inline Comments

* Start comment text with an uppercase letter, and end comment text with a period.
* Insert one space between the comment delimiter (‘) and the comment text.
* Every important variable declaration should include an inline comment describing the use of the variable being declared.

# Code Formatting

* Standard nested blocks should be indented four spaces.
* Use only one declaration per line.
* Add at least one blank line between method and property definitions.

**Example:**

See next page please.

Function intFindUser (strUserList(), strTargetUser)

Dim i ' Loop counter.

Dim blnFound ' Target found flag

intFindUser = -1

i = 0 ' Initialize loop counter

Do While i <= Ubound(strUserList) and Not blnFound

If strUserList(i) = strTargetUser Then

blnFound = True ' Set flag to True

intFindUser = i ' Set return value to loop count

End If

i = i + 1 ' Increment loop counter

Loop

End Function

# Code Snippets

## Instantiate All Object of a Class

**Function** GetEnoviaSearch\_CommonModelInstance

**Set** GetEnoviaSearch\_CommonModelInstance = **New** EnoviaSearch\_CommonModel

**End** **Function**

**Function** GetEnoviaSearch\_RevisionModelInstance

**Set** GetEnoviaSearch\_RevisionModelInstance = **New** EnoviaSearch\_RevisionModel

**End** **Function**

## Define properties in a related class

**Class** EnoviaSearch\_CommonModel

**Private** m\_testCaseNumber

**Private** m\_description

**Public** **Property** **Let** TestCaseNumber(value)

m\_testCaseNumber = value

**End** **Property**

**Public** **Property** **Get** TestCaseNumber()

TestCaseNumber = m\_testCaseNumber

**End** **Property**

**Public** **Property** **Let** Description(value)

m\_description = value

**End** **Property**

**Public** **Property** **Get** Description()

Description = m\_description

**End** **Property**

**End** **Class**

## Initialize & Terminate Members of a Main Class

**Private** **Sub** Class\_Initialize()

**Set** m\_EnoviaSearch\_CommonModel = GetEnoviaSearch\_CommonModelInstance

**Set** m\_EnoviaSearch\_RevisionModel = GetEnoviaSearch\_RevisionModelInstance

**End** **Sub**

**Private** **Sub** Class\_Terminate()

**Set** m\_EnoviaSearch\_CommonModel = **nothing**

**Set** m\_EnoviaSearch\_RevisionModel = **nothing**

**End** **Sub**