# Open a Word Document

Sub CreateScenarioList()

Dim sFileName As String

sFileName = "C:\Users\lover\Documents\6-011\_3035952\_ACSES\_OFFICE\_SADD\_FDR.docx"

'OpenWordDoc (sFileName)

End Sub

Function OpenWordDoc(sFileName As String)

'FROM: http://www.devhut.net/2010/09/09/vba-word-open-a-word-document/

Dim oApp As Word.Application

Dim oDoc As Word.Document

On Error Resume Next

'If Word is running set oApp to object word application

Set oApp = GetObject(, "Word.Application")

'Word isn't running so create word application object to start it and set oApp to new object

If Err.Number <> 0 Then

Set oApp = CreateObject("Word.Application")

End If

On Error GoTo 0

Set oDoc = oApp.Documents.Open(sFileName)

oApp.Visible = True

End Function

# Create List from Bookmarks Placed at Beginning of Line

Sub CreateScenarioList()

'MANUAL INSTRUCTION: ENTER SCENARIO AND MESSAGE BOOKMARKS IN DOC BY PLACING AT BEGINNING OF TEXT

' NAME THE BOOKMARKS WITH CONSISTENT PATTERN, i.e., SCEN#, FOR EACH SCENARIO

' CREATE BOOKMARKS AROUND EACH ICD MESSAGE WITH PATTERN SCEN#MSG#

'NOTE: YOU CAN CHANGE THE BOOKMARK PATTERNS BELOW

Const scenario As String = "scen"

Const message As String = "msg"

'NOTE: YOU CAN CHANGE TITLE OR HEADING STYLE FOR NEW APPENDIX BELOW

Const heading As String = "Heading 1"

Const appendix As String = "Appendix H: ICD Messages"

Dim doc As Word.Document

Dim numBookmarks As Integer

Dim myBookmarks() As Variant

Dim i, j As Integer

Set doc = ActiveDocument

'Go to end of document and add a new line

Selection.EndKey Unit:=wdStory

Selection.TypeParagraph

'Add appendix to active document

Selection.Style = ActiveDocument.Styles(heading)

Selection.TypeText Text:=appendix

Selection.TypeParagraph

' Count and get specified bookmarks in order as they appear in document

numBookmarks = 0

For i = 1 To doc.Bookmarks.Count

If (InStr(LCase$(doc.Range.Bookmarks(i)), scenario)) Then

numBookmarks = numBookmarks + 1

End If

Next i

ReDim myBookmarks(numBookmarks)

j = 1

For i = 1 To doc.Bookmarks.Count

If (InStr(LCase$(doc.Range.Bookmarks(i)), scenario)) Then

myBookmarks(j) = doc.Range.Bookmarks(i) 'here you can change the code to push the bookmarks in an array

j = j + 1

End If

Next i

'MANUAL INSTRUCTION: YOU CAN CHANGE THE STRING TO TEST FOR DIFFERENT BOOKMARKS DEPENDING ON THE PATTERNS YOU CHOSE ABOVE

' For each bookmark, if the string contains "scenario" pattern, print the content text of the scenario;

' If the next bookmark contains "msg," print a return, the content text of the current bookmark, the page number with hyperlink, and a return;

' If the current bookmark contains "msg," print the content text

For i = 1 To UBound(myBookmarks)

If (InStr(LCase$(myBookmarks(i)), scenario) And (InStr(LCase$(myBookmarks(i)), message) = 0)) Then 'CAN CHANGE STRING VALUE HERE

If (i < UBound(myBookmarks)) And (InStr(LCase$(myBookmarks(i + 1)), message) = 0) Then

If (i > 1) And InStr(LCase$(myBookmarks(i - 1)), message) Then

Selection.TypeParagraph

Selection.TypeParagraph

End If

Selection.GoTo What:=wdGoToBookmark, Name:=myBookmarks(i)

Selection.EndKey Unit:=wdLine, Extend:=wdExtend

Selection.MoveLeft Unit:=wdCharacter, Count:=1, Extend:=wdExtend

Selection.Copy

Selection.EndKey Unit:=wdStory

Selection.Paste

Selection.TypeText Text:=" >> "

Else

Selection.TypeParagraph

Selection.TypeText Text:=vbTab

Selection.GoTo What:=wdGoToBookmark, Name:=myBookmarks(i)

Selection.EndKey Unit:=wdLine, Extend:=wdExtend

Selection.MoveLeft Unit:=wdCharacter, Count:=1, Extend:=wdExtend

Selection.Copy

Selection.EndKey Unit:=wdStory

Selection.Paste

Selection.TypeText Text:=", "

Selection.InsertBefore "Page "

Selection.Collapse Direction:=wdCollapseEnd

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdPageNumber, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

Selection.TypeParagraph

End If

ElseIf InStr(LCase$(myBookmarks(i)), message) Then

Selection.TypeText Text:=vbTab & vbTab

Selection.GoTo What:=wdGoToBookmark, Name:=myBookmarks(i)

Selection.EndKey Unit:=wdLine, Extend:=wdExtend

Selection.MoveLeft Unit:=wdCharacter, Count:=1, Extend:=wdExtend

Selection.Copy

Selection.EndKey Unit:=wdStory

Selection.Paste

If (i < UBound(myBookmarks)) Then

If InStr(LCase$(myBookmarks(i + 1)), message) Then

Selection.TypeParagraph

End If

End If

End If

Next i

End Sub

# Create List of Select Headings and Page References

Sub CreateScenarioList()

'FROM: http://stackoverflow.com/questions/274814/getting-the-headings-from-a-word-document

Dim docOutline As Word.Document

Dim doc As Word.Document

Dim rng As Word.Range

Dim myHeadings As Variant

Dim i As Integer

Set doc = ActiveDocument

'Create new document

'Set docOutline = Documents.Add

'Add appendix to active document MUST PLACE CURSOR AT END OF DOCUMENT

'doc.Content.InsertAfter (vbCr)

Selection.Style = ActiveDocument.Styles("Heading 1")

Selection.TypeText Text:="Appendix H: ICD Messages"

Selection.TypeParagraph

'Get reference items (headings or bookmarks)

'FROM: https://msdn.microsoft.com/en-us/library/office/aa172208%28v=office.11%29.aspx

myHeadings = \_

ActiveDocument.GetCrossReferenceItems(wdRefTypeHeading)

For i = 1 To UBound(myHeadings)

If InStr(LCase$(myHeadings(i)), "scenario") Then

Selection.TypeText (LTrim(myHeadings(i)))

Selection.TypeText Text:=vbTab

Selection.InsertCrossReference \_

ReferenceType:=wdRefTypeHeading, \_

ReferenceKind:=wdPageNumber, ReferenceItem:=i

Selection.TypeParagraph

End If

Next i

End Sub

# Create List of Select Bookmarks with Page References

Sub CreateScenarioList()

'FROM: http://stackoverflow.com/questions/274814/getting-the-headings-from-a-word-document

Dim docOutline As Word.Document

Dim doc As Word.Document

Dim rng As Word.Range

Dim myBookmarks As Variant

Dim i As Integer

Set doc = ActiveDocument

'Create new document

'Set docOutline = Documents.Add

'Add appendix to active document MUST PLACE CURSOR AT END OF DOCUMENT

'doc.Content.InsertAfter (vbCr)

Selection.Style = ActiveDocument.Styles("Heading 1")

Selection.TypeText Text:="Appendix H: ICD Messages"

Selection.TypeParagraph

'Get reference items (bookmarks)

'FROM: https://msdn.microsoft.com/en-us/library/office/aa172208%28v=office.11%29.aspx

'FROM: https://msdn.microsoft.com/en-us/library/office/aa212260%28v=office.11%29.aspx

myBookmarks = \_

ActiveDocument.GetCrossReferenceItems(wdRefTypeBookmark)

If ActiveDocument.Bookmarks.Count >= 1 Then

myBookmarks = ActiveDocument.GetCrossReferenceItems( \_

wdRefTypeBookmark)

End If

For i = 1 To UBound(myBookmarks)

If InStr(LCase$(myBookmarks(i)), "scenario") Then

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdContentText, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

Selection.TypeText Text:=", "

Selection.InsertBefore "Page "

Selection.Collapse Direction:=wdCollapseEnd

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdPageNumber, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

Selection.TypeParagraph

End If

Next i

End Sub

# CREATE A SORTED LIST OF BOOKMARKS

Sub CreateScenarioList()

'MANUAL INSTRUCTION: ENTER SCENARIO AND MESSAGE BOOKMARKS IN DOC BY HIGHLIGHTING THE TEXT

' NAME THE BOOKMARKS WITH CONSISTENT PATTERN, i.e., SCENARIO#, FOR EACH SCENARIO

' CREATE BOOKMARKS AROUND EACH ICD MESSAGE WITH PATTERN SCENARIO#MSG#

Dim doc As Word.Document

Dim numBookmarks As Integer

Dim myBookmarks() As Variant

Dim i As Integer

Set doc = ActiveDocument

ReDim myBookmarks(doc.Bookmarks.Count)

'Go to end of document and add a new line

Selection.EndKey Unit:=wdStory

Selection.TypeParagraph

'MANUAL INSTRUCTION: YOU CAN CHANGE APPENDIX TITLE OR HEADING STYLE BELOW

'Add appendix to active document

Selection.Style = ActiveDocument.Styles("Heading 1") 'CHANGE HEADING STYLE HERE

Selection.TypeText Text:="Appendix H: ICD Messages" 'CHANGE APPENDIX TITLE HERE

Selection.TypeParagraph

' Get bookmarks in order as they appear in document

For i = 1 To doc.Bookmarks.Count

myBookmarks(i) = doc.Range.Bookmarks(i) 'here you can change the code to push the bookmarks in an array

Next i

'MANUAL INSTRUCTION: YOU CAN CHANGE THE STRING TO TEST FOR DIFFERENT BOOKMARKS DEPENDING ON THE PATTERNS YOU CHOSE ABOVE

' For each bookmark, if the string contains "scenario" pattern, print the content text of the scenario;

' If the next bookmark contains "msg," print a line, the content text of the current bookmark, the page number, and a line;

' If the current bookmark contains "msg," print the content text

For i = 1 To UBound(myBookmarks)

If (InStr(LCase$(myBookmarks(i)), "scenario") And (InStr(LCase$(myBookmarks(i)), "msg") = 0)) Then 'CAN CHANGE STRING VALUE HERE

If (i < UBound(myBookmarks)) And (InStr(LCase$(myBookmarks(i + 1)), "msg") = 0) Then

If (i > 1) And InStr(LCase$(myBookmarks(i - 1)), "msg") Then

Selection.TypeParagraph

Selection.TypeParagraph

End If

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdContentText, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

Selection.TypeText Text:=" >> "

Else

Selection.TypeParagraph

Selection.TypeText Text:=vbTab

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdContentText, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

Selection.TypeText Text:=", "

Selection.InsertBefore "Page "

Selection.Collapse Direction:=wdCollapseEnd

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdPageNumber, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

Selection.TypeParagraph

End If

ElseIf InStr(LCase$(myBookmarks(i)), "msg") Then 'CAN CHANGE STRING VALUE HERE

Selection.TypeText Text:=vbTab & vbTab

Selection.InsertCrossReference ReferenceType:=wdRefTypeBookmark, \_

ReferenceKind:=wdContentText, ReferenceItem:=myBookmarks(i), \_

InsertAsHyperlink:=True

If (i < UBound(myBookmarks)) And InStr(LCase$(myBookmarks(i + 1)), "msg") Then

Selection.TypeParagraph

End If

End If

Next i

End Sub

# Get List Level

Dim myHeadings() As String

Dim headingText() As String

Dim headingLevel() As Integer

Dim i As Integer

Dim numScenarios As Integer

myHeadings = \_

ActiveDocument.GetCrossReferenceItems(wdRefTypeHeading)

ReDim headingText(UBound(myHeadings))

ReDim headingLevel(UBound(myHeadings))

numScenarios = 0

For i = LBound(myHeadings) To UBound(myHeadings)

' Get the text and the level.

headingText(i) = Trim$(myHeadings(i))

headingLevel(i) = GetLevel(CStr(myHeadings(i)))

' Count the number of scenarios which equals the number of "ICD Messages" headings

If InStr(LCase$(myHeadings(i)), "icd messages") Then

numScenarios = numScenarios + 1

End If

Next i

Private Function GetLevel(strItem As String) As Integer

' Return the heading level of a header from the

' array returned by Word.

' The number of leading spaces indicates the

' outline level (2 spaces per level: H1 has

' 0 spaces, H2 has 2 spaces, H3 has 4 spaces.

Dim strTemp As String

Dim strOriginal As String

Dim intDiff As Integer

' Get rid of all trailing spaces.

strOriginal = RTrim$(strItem)

' Trim leading spaces, and then compare with

' the original.

strTemp = LTrim$(strOriginal)

' Subtract to find the number of

' leading spaces in the original string.

intDiff = Len(strOriginal) - Len(strTemp)

GetLevel = (intDiff / 2) + 1

End Function

# Paragraphs and Parents

Dim doc As Word.Document

Dim myParagraphs As Variant

Dim para As Variant

Set myParagraphs = doc.Paragraphs

For Each para In myParagraphs

If para.Style = "Message" Then

Selection.TypeText Text:=vbTab

Selection.TypeText Text:=para.Parent

End If

Next

THIS PULLS THE NAME OF THE DOCUMENT NOT THE NEXT LEVEL UP HEADING!

<http://www.thezcorp.com/VBACodeSamples.aspx>

Find text between two bookmarks, select line, copy, paste into table

SELECT LINE WITHOUT PARAGRAPH MARK

Selection.EndKey Unit:=wdLine, Extend:=wdExtend  
Selection.MoveLeft Unit:=wdCharacter, Count:=1, Extend:=wdExtend

FIND TEXT

List Level

<http://word.mvps.org/FAQs/Numbering/ListString.htm>