**Under frmEngWorkflow:**

* DONE - Add the Number button
* DONE - In the Details tab: hide cboDetailsProgram; change column name to Project(from Program)
* DONE - To the 4 lines of code that start like

u.ExecuteSQL(SqlConnection1, "Insert into tblDrawings (DrawingNumber, DrawingTitle, NextHigherAssembly, Program,

Add ProgramReal

And

* DONE - Comment out all lines of code like the below:

cboDetailsProgram.Enabled = False

* DONE - Change this line of code

da = New SqlClient.SqlDataAdapter("Select SystemDescription from tblSystemDescription Where Program = '" & Me.cboDetailsProgram.Text & "' and Active = 'True' Order By SystemDescription Asc", SqlConnection1)

to look like this line of code:

da = New SqlClient.SqlDataAdapter("Select SystemDescription from tblSystemDescription Where Program = '" & Me.txtMainProjectName.Text & "' and Active = 'True' Order By SystemDescription Asc", SqlConnection1)

* DONE - Next to code line Me.txtMainProgram.DataBindings.Add("Text", Me.bsMainGrid, "Program") , add comment 'txtMainProgram will actually contain project

* DONE - Change “Program” to “ProgramReal” for the ones contained in statements that involve vwDrawingsRev or in sqlStrings
* DONE - Make Program textbox under the Details tab not visible(do not delete it) and add Grid, Save and Delete buttons, and checkbox
* DONE - Make captions of 2 Program cols equal to “Project”
* DONE - Hide cboDetailsProgram combobox
* DONE - Add and hide txtMainProjectName
* DONE - Comment out the following two lines under SearchMainInformation():

Me.cboDetailsProgram.DataBindings.Clear()

Me.cboDetailsProgram.DataBindings.Add("Text", Me.bsMainInformationTab, "Program")

* DONE - Add the following two lines in the appropriate place under SearchMainInformation():

Me.txtMainProjectName.DataBindings.Clear()

Me.txtMainProjectName.DataBindings.Add("Text", Me.bsMainInformationTab, "Program") 'This contains Project

* DONE - Add the following at the end of SearchMainInformation() (right before the last Else):

'Below contains Program

cboDetailsProgram.Text = ""

da = New SqlClient.SqlDataAdapter("Select ProgramReal From tblDrawings Where RecordID = '" & txtMainInfoRecordID.Text & "'", SqlConnection1)

da.Fill(ds, "ProgramReal")

If ds.Tables("ProgramReal").Rows.Count > 0 Then

If IsDBNull(ds.Tables("ProgramReal").Rows(0).Item("ProgramReal")) Then

ProgramName = ""

ElseIf ds.Tables("ProgramReal").Rows(0).Item("ProgramReal") = "" Then

ProgramName = ""

Else

cboDetailsProgram.Text = ds.Tables("ProgramReal").Rows(0).Item("ProgramReal")

ProgramName = cboDetailsProgram.Text

End If

ds.Tables("ProgramReal").Clear()

ds.Tables("ProgramReal").Dispose()

End If

* DONE - Comment out the following code under PopulateDropdowns() except Dim I As Integer = 0 :

''Fill program drop down, that you get by selecting a cell under the program column, with values from database

'da = New SqlClient.SqlDataAdapter("Select \* from tblProgram Order By ProgramName", SqlConnection1)

'da.Fill(ds, "Programs")

Dim i As Integer = 0

'While i <= ds.Tables("Programs").Rows.Count - 1

' 'RepositoryItemComboBox1.Items.Add(ds.Tables("Programs").Rows(i).Item("ProgramName"))

' Me.cboDetailsProgram.Properties.Items.Add(ds.Tables("Programs").Rows(i).Item("ProgramName"))

' i = i + 1

'End While

'ds.Tables("Programs").Clear()

'ds.Tables("Programs").Dispose()

* DONE - Create da DrawingsProjects, ds DrawingsProjects and bs DrawingsProjects
* DONE - Add at very top of code this variables:

Public RowSelectedDrawingsGrid

Public RowSelectedMainGrid

* DONE - Create the grid and buttons for the Projects under the Details tab
* DONE - Add the end of the code for frmEngWorkflow add the following code:

Public Function PopulateDrawingsProjectsGrid()

SqlConnection3.ConnectionString = sqlString

'Clear previous data from DrawingsProjects grid if data already existed from before

If IsNothing(ds.Tables("DrawingsProjects")) Then

'nothing

Else

ds.Tables("DrawingsProjects").Clear()

ds.Tables("DrawingsProjects").Dispose()

End If

Try

'POPULATE DRAWINGS PROJECTS GRID WITH DATA

'da = New SqlClient.SqlDataAdapter("Select \* From tblDrawingsProjects Where RecordIDParent = '" & txtMainInfoRecordID.Text & "'", SqlConnection3)

da = New SqlClient.SqlDataAdapter("Select \* From tblDrawingsProjects Where DrawingNumber = '" & txtMainDrawingNumber.Text & "'", SqlConnection3)

da.Fill(ds, "DrawingsProjects")

Me.bsDrawingsProjects.DataSource = ds.Tables("DrawingsProjects")

GridControl11.DataSource = Me.bsDrawingsProjects

'Dim dsView As New DataView()

'dsView = ds.Tables(0).DefaultView

'bs.DataSource = dsView

'GridControl1.DataSource = bs

GridView11.Columns("RecordID").Visible = False

GridView11.Columns("RecordIDParent").Visible = False

GridView11.Columns("ProjectNumber").Visible = False

GridView11.Columns("ProgramName").Visible = False

GridView11.Columns("DrawingNumber").Visible = False

'GridView1.Columns("PaymentNum").OptionsColumn.AllowEdit = False

Catch ex As Exception

MessageBox.Show(ex.Message)

Me.Close()

End Try

'Populate Projects col dropdown inside the Projects grid

RepositoryItemComboBox7.Items.Clear()

da = New SqlClient.SqlDataAdapter("Select Distinct ProjectName From tblProjects Where Active = 'True'", SqlConnection3) 'Where Program = '" & ProjectSelected & "' And Active = 1

da.Fill(ds, "ProjectsForDrawingsProjects")

Dim i As Integer = 0

While i <= ds.Tables("ProjectsForDrawingsProjects").Rows.Count - 1

RepositoryItemComboBox7.Items.Add(ds.Tables("ProjectsForDrawingsProjects").Rows(i).Item("ProjectName"))

i = i + 1

End While

ds.Tables("ProjectsForDrawingsProjects").Clear()

ds.Tables("ProjectsForDrawingsProjects").Dispose()

'Populate System Description col dropdown inside the Projects grid

RepositoryItemComboBox6.Items.Clear()

da = New SqlClient.SqlDataAdapter("Select Distinct SystemDescription From tblSystemDescription Where Active = 1", SqlConnection3) 'Where Program = '" & ProjectSelected & "' And Active = 1

da.Fill(ds, "SystemsForDrawingsProjects")

Dim a As Integer = 0

While a <= ds.Tables("SystemsForDrawingsProjects").Rows.Count - 1

RepositoryItemComboBox6.Items.Add(ds.Tables("SystemsForDrawingsProjects").Rows(a).Item("SystemDescription"))

a = a + 1

End While

ds.Tables("SystemsForDrawingsProjects").Clear()

ds.Tables("SystemsForDrawingsProjects").Dispose()

End Function

Private Sub btnSaveDrawingsProjects\_Click(sender As Object, e As EventArgs) Handles btnSaveDrawingsProjects.Click

'Dim RecordIDDrawingsProjectsSelected As String = ""

Dim DrawingNumDrawingsProjectsSelected As String = ""

'Dim RecordIDAssemblies As String = ""

Dim DrawingNumberAssemblies As String = ""

Dim ProjectAdded As String = ""

Dim ProgramAdded As String = ""

Dim SystemAdded As String = ""

Dim ProgramNumber As String = ""

Dim ProjectNames As String = ""

Dim ProgramNumbers As String = ""

Dim SystemNames As String = ""

'WHEN SAVING GET THE ROW SELECTED FROM THE DRAWINGS AND MAIN GRIDS, SO THAT I CAN HAVE IT SELECTED AFTER ALL THE SAVE CODE IS EXECUTED

RowSelectedDrawingsGrid = GridView1.FocusedRowHandle

RowSelectedMainGrid = GridView2.FocusedRowHandle

'ADD PROJECTS

Me.daDrawingsProjects.Update(ds, "DrawingsProjects")

Try

'See if the project just added belongs to more than one program, in that case more records of other projects with the other programs is created

da = New SqlClient.SqlDataAdapter("Select ProjectName, System From tblDrawingsProjects Where DrawingNumber = '' Or DrawingNumber Is Null", SqlConnection3)

da.Fill(ds, "ProjectsInserted")

Dim y As Integer = 0

While y <= ds.Tables("ProjectsInserted").Rows.Count - 1

ProjectNames = ds.Tables("ProjectsInserted").Rows(y).Item("ProjectName")

If IsDBNull(ds.Tables("ProjectsInserted").Rows(y).Item("System")) Then

SystemNames = ""

Else

SystemNames = ds.Tables("ProjectsInserted").Rows(y).Item("System")

End If

y = y + 1

da = New SqlClient.SqlDataAdapter("Select Distinct ProgramNumber From tblProgram\_Project Where ProjectName = '" & ProjectNames & "'", SqlConnection3)

da.Fill(ds, "ProgramNumbersInitial")

If ds.Tables("ProgramNumbersInitial").Rows.Count > 1 Then

Dim c As Integer = 0

While c <= ds.Tables("ProgramNumbersInitial").Rows.Count - 1

ProgramNumbers = ds.Tables("ProgramNumbersInitial").Rows(c).Item("ProgramNumber")

c = c + 1

u.ExecuteSQL(SqlConnection3, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectNames & "', '" & SystemNames & "', '" & txtMainDrawingNumber.Text & "', '" & ProgramNumbers & "')")

End While

ElseIf ds.Tables("ProgramNumbersInitial").Rows.Count = 1 Then

u.ExecuteSQL(SqlConnection3, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectNames & "', '" & SystemNames & "', '" & txtMainDrawingNumber.Text & "', '" & ds.Tables("ProgramNumbersInitial").Rows(0).Item("ProgramNumber") & "')")

Else

u.ExecuteSQL(SqlConnection3, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectNames & "', '" & SystemNames & "', '" & txtMainDrawingNumber.Text & "', 'No Program Found')")

End If

ds.Tables("ProgramNumbersInitial").Clear()

ds.Tables("ProgramNumbersInitial").Dispose()

End While

ds.Tables("ProjectsInserted").Clear()

ds.Tables("ProjectsInserted").Dispose()

'ADD PROJECTS TO CHILDREN

If chbIncludeChildren.Checked = True Then

'Get Drawing Numbers of the drawing numbers that have the Assembly field populated with the drawing number of the currently selected record.

'I will have to add the New projects to these drawing numbers as well

da = New SqlClient.SqlDataAdapter("Select Distinct DrawingNumber from tblDrawings Where NextHigherAssembly = '" & txtMainDrawingNumber.Text & "'", SqlConnection3)

da.Fill(ds, "DrawingNumbers")

'If the drawing number does not have children jump to the GoTo

If ds.Tables("DrawingNumbers").Rows.Count > 0 Then

'Nothing

Else

u.ExecuteSQL(SqlConnection3, "DELETE From tblDrawingsProjects Where DrawingNumber = '' Or DrawingNumber Is Null")

GoTo ChildrenUncheckedOrNoChildren

End If

Dim p As Integer = 0

While p <= ds.Tables("DrawingNumbers").Rows.Count - 1

DrawingNumberAssemblies = ds.Tables("DrawingNumbers").Rows(p).Item("DrawingNumber")

p = p + 1

'Get the projects just added that will be added to the assemblies(children) as well

da = New SqlClient.SqlDataAdapter("Select ProjectName, System from tblDrawingsProjects Where DrawingNumber = '' Or DrawingNumber Is Null", SqlConnection3)

da.Fill(ds, "ProjectsAdded")

Dim x As Integer = 0

While x <= ds.Tables("ProjectsAdded").Rows.Count - 1

If IsDBNull(ds.Tables("ProjectsAdded").Rows(x).Item("ProjectName")) Then

ProjectAdded = ""

Else

ProjectAdded = ds.Tables("ProjectsAdded").Rows(x).Item("ProjectName")

End If

If IsDBNull(ds.Tables("ProjectsAdded").Rows(x).Item("System")) Then

SystemAdded = ""

Else

SystemAdded = ds.Tables("ProjectsAdded").Rows(x).Item("System")

End If

x = x + 1

'Get Program names of where the projects belong to. That is because when a new project is added and that belongs to two programs for example

'then two records must be entered: Project 1 Program 1 AND Project 1 Program 2

da = New SqlClient.SqlDataAdapter("Select Distinct ProgramNumber From tblProgram\_Project Where ProjectName = '" & ProjectAdded & "'", SqlConnection3)

da.Fill(ds, "ProgramNumbers")

If ds.Tables("ProgramNumbers").Rows.Count > 1 Then

Dim z As Integer = 0

While z <= ds.Tables("ProgramNumbers").Rows.Count - 1

ProgramNumber = ds.Tables("ProgramNumbers").Rows(z).Item("ProgramNumber")

z = z + 1

u.ExecuteSQL(SqlConnection1, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectAdded & "', '" & SystemAdded & "', '" & DrawingNumberAssemblies & "', '" & ProgramNumber & "')")

End While

ElseIf ds.Tables("ProgramNumbers").Rows.Count = 1 Then

u.ExecuteSQL(SqlConnection3, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectAdded & "', '" & SystemAdded & "', '" & DrawingNumberAssemblies & "', '" & ds.Tables("ProgramNumbers").Rows(0).Item("ProgramNumber") & "')")

Else

u.ExecuteSQL(SqlConnection3, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectAdded & "', '" & SystemAdded & "', '" & DrawingNumberAssemblies & "', 'No Program Found')")

End If

ds.Tables("ProgramNumbers").Clear()

ds.Tables("ProgramNumbers").Dispose()

End While

ds.Tables("ProjectsAdded").Clear()

ds.Tables("ProjectsAdded").Dispose()

End While

ds.Tables("DrawingNumbers").Clear()

ds.Tables("DrawingNumbers").Dispose()

'Following line the program deletes the initial projects that were created(the ones without a drawing number)

'because they were re-created before the above if statement in case a project belonged to more than one program

u.ExecuteSQL(SqlConnection3, "DELETE From tblDrawingsProjects Where DrawingNumber = '' Or DrawingNumber Is Null")

'Enter the RecordID of the currently selected Drawing Number to the RecordIDParent of the projects just added

u.ExecuteSQL(SqlConnection3, "Update tblDrawingsProjects Set DrawingNumber = '" & txtMainDrawingNumber.Text & "' Where DrawingNumber = '' Or DrawingNumber Is Null")

ChildrenUncheckedOrNoChildren:

Else

'Get the info from the projects just added. That will be used to see if the project belongs to other programs as well.

'If it does then more records for the other project/program combination(s) are created

da = New SqlClient.SqlDataAdapter("Select ProjectName, System from tblDrawingsProjects Where DrawingNumber = '' Or DrawingNumber Is Null", SqlConnection3)

da.Fill(ds, "ProjectsAdded")

Dim x As Integer = 0

While x <= ds.Tables("ProjectsAdded").Rows.Count - 1

If IsDBNull(ds.Tables("ProjectsAdded").Rows(x).Item("ProjectName")) Then

ProjectAdded = ""

Else

ProjectAdded = ds.Tables("ProjectsAdded").Rows(x).Item("ProjectName")

End If

If IsDBNull(ds.Tables("ProjectsAdded").Rows(x).Item("System")) Then

SystemAdded = ""

Else

SystemAdded = ds.Tables("ProjectsAdded").Rows(x).Item("System")

End If

x = x + 1

'Get Program names of where the projects belong to. That is because when a new project is added and that belongs to two programs for example

'then two records must be entered: Project 1 Program 1 AND Project 1 Program 2

da = New SqlClient.SqlDataAdapter("Select Distinct ProgramNumber From tblProgram\_Project Where ProjectName = '" & ProjectAdded & "'", SqlConnection3)

da.Fill(ds, "ProgramNumbers")

Dim z As Integer = 0

While z <= ds.Tables("ProgramNumbers").Rows.Count - 1

ProgramNumber = ds.Tables("ProgramNumbers").Rows(z).Item("ProgramNumber")

z = z + 1

u.ExecuteSQL(SqlConnection1, "Insert into tblDrawingsProjects (ProjectName, System, DrawingNumber, ProgramNumber) Values ('" & ProjectAdded & "', '" & SystemAdded & "', '" & DrawingNumberAssemblies & "', '" & ProgramNumber & "')")

End While

End While

'Following line the program deletes the initial projects that were created

'because they were re-created before the above if statement in case a project belonged to more than one program

u.ExecuteSQL(SqlConnection3, "DELETE From tblDrawingsProjects Where DrawingNumber = '' Or DrawingNumber Is Null")

'Enter the RecordID of the currently selected Drawing Number to the RecordIDParent of the projects just added (not sure I need the following line)

u.ExecuteSQL(SqlConnection3, "Update tblDrawingsProjects Set DrawingNumber = '" & txtMainDrawingNumber.Text & "' Where DrawingNumber = '' Or DrawingNumber Is Null")

ds.Tables("ProgramNumbers").Clear()

ds.Tables("ProgramNumbers").Dispose()

ds.Tables("ProjectsAdded").Clear()

ds.Tables("ProjectsAdded").Dispose()

End If

PopulateDrawingsProjectsGrid()

MsgBox("Data Saved")

Catch ex As Exception

MessageBox.Show("An error occured after clicking on Save." & vbLf & vbLf & ex.Message)

End Try

'Put the focus on the row that was selected, for the Drawings and Main grids, before hitting the save button

GridView1.FocusedRowHandle = RowSelectedDrawingsGrid

GridView1.SelectRow(RowSelectedDrawingsGrid)

GridView2.FocusedRowHandle = RowSelectedMainGrid

GridView2.SelectRow(RowSelectedMainGrid)

End Sub

Private Sub btnDeleteDrawingsProjects\_Click(sender As Object, e As EventArgs) Handles btnDeleteDrawingsProjects.Click

Dim RecordIDDrawingsProjectsSelected As Integer

If IsDBNull(GridView11.GetRowCellValue(GridView11.FocusedRowHandle, "RecordID")) Then

MsgBox("You must first save the project and then you can delete it")

Exit Sub

Else

RecordIDDrawingsProjectsSelected = GridView11.GetRowCellValue(GridView11.FocusedRowHandle, "RecordID")

End If

Dim result As DialogResult = MessageBox.Show("Are you sure you want to delete the selected record?", "Title", MessageBoxButtons.YesNo)

If (result = DialogResult.Yes) Then

u.ExecuteSQL(SqlConnection3, "Delete from tblDrawingsProjects Where RecordID = '" & RecordIDDrawingsProjectsSelected & "'")

MsgBox("Project deleted.")

Search()

Else

'Nothing

End If

End Sub

**DONE - Under txtMainInfoRecordID (frmEngWorkflow) (the line before the last line of code):**

'POPULATE DRAWINGS PROJECTS GRID

PopulateDrawingsProjectsGrid()

'POPULATE ASSEMBLIES GRID

PopulateAssembliesGrid()

**DONE - Under frmlovSystemDescription:**

* DONE - Change caption of Program to Project
* DONE - Replace the code under frmLoad with the one below:

SqlConnection1.ConnectionString = sqlString

'Fill project(before program) drop down, that you get by selecting a cell under the program column, with values from database

da = New SqlClient.SqlDataAdapter("Select \* From tblProjects Order By ProjectName", SqlConnection1)

da.Fill(ds, "Projects")

Dim i As Integer = 0

While i <= ds.Tables("Projects").Rows.Count - 1

RepositoryItemComboBox2.Items.Add(ds.Tables("Projects").Rows(i).Item("ProjectName"))

i = i + 1

End While

ds.Tables("Projects").Clear()

ds.Tables("Projects").Dispose()

search()

**DONE - Programs:**

All the code under it

**DONE - Projects:**

All the code under it