**Introduction**

**Visual Basic for Applications** (**VBA**) is an implementation of Microsoft's event-driven programming language Visual Basic 6, which was declared legacy in 2008, and is an associated integrated development environment (IDE). Although pre-.NET Visual Basic is no longer supported or updated by Microsoft, the VBA programming language was upgraded in 2010 with the introduction of Visual Basic for Applications 7 in Microsoft Office applications. As of 2020, VBA has held its position as "most dreaded" language for developers for 2 years, according to some who participated in surveys undertaken by Stack Overflow. (The most dreaded language for 2018 was Visual Basic 6).

Visual Basic for Applications enables building user-defined functions (UDFs), automating processes and accessing Windows API and other low-level functionality through dynamic-link libraries (DLLs). It supersedes and expands on the abilities of earlier application-specific macro programming languages such as Word's WordBASIC. It can be used to control many aspects of the host application, including manipulating user interface features, such as menus and toolbars, and working with custom user forms or dialog boxes.

As its name suggests, VBA is closely related to Visual Basic and uses the Visual Basic Runtime Library. However, VBA code normally can only run within a host application, rather than as a standalone program. VBA can, however, control one application from another using OLE Automation. For example, VBA can automatically create a Microsoft Word report from Microsoft Excel data that Excel collects automatically from polled sensors. VBA can use, but not create, ActiveX/COM DLLs, and later versions add support for class modules.

**User-Forms**

There are 12 different User-Forms for different parts of the Organization like after the Initial data entry user form there is for Different Regions, Countries, Companies, Businesses, Country Divisions, Country Business Units, Department and Team of Siemens AG.

The Different User forms are shown in the Figure (Screen Shot) below.

**First User-Form:”frmData”**

This user-form initializes and takes in the basic information of the employee like the Id, Name, Gender, Location, E-mail Address, Contact Number and any possible remarks. This user-form does not add just takes in the information to be added later.

**CODE**

'Variable Declaration

Dim BlnVal As Boolean

Private Sub UserForm\_Initialize()

'Variable declaration

Dim IdVal As Integer

'Finding last row in the Data Sheet

IdVal = fn\_LastRow(Sheets("Data"))

'Update next available id on the userform

frmData.txtId = IdVal

End Sub

Sub cmdAdd\_Click()

On Error GoTo ErrOccured

'Boolean Value

BlnVal = 0

'Data Validation

Call Data\_Validation

'Check validation of all fields are completed are not

If BlnVal = 0 Then Exit Sub

'TurnOff screen updating

With Application

.ScreenUpdating = False

.EnableEvents = False

End With

'Variable declaration

Dim txtId, txtName, GenderValue, txtLocation, txtCNum, txtEAddr, txtRemarks

Dim iCnt As Integer

'find next available row to update data in the data worksheet

iCnt = fn\_LastRow(Sheets("Data")) + 1

'Find Gender value

If frmData.obMale = True Then

GenderValue = "Male"

Else

GenderValue = "Female"

End If

'Display next available Id number on the Userform

'Variable declaration

Dim IdVal As Integer

'Finding last row in the Data Sheet

IdVal = fn\_LastRow(Sheets("Data"))

'Update next available id on the userform

frmData.txtId = IdVal

ErrOccured:

'TurnOn screen updating

Application.ScreenUpdating = True

Application.EnableEvents = True

frmData.Hide

UserForm1.Show

End Sub

'In this example we are finding the last Row of specified Sheet

Function fn\_LastRow(ByVal Sht As Worksheet)

Dim lastRow As Long

lastRow = Sht.Cells.SpecialCells(xlLastCell).Row

lRow = Sht.Cells.SpecialCells(xlLastCell).Row

Do While Application.CountA(Sht.Rows(lRow)) = 0 And lRow <> 1

lRow = lRow - 1

Loop

fn\_LastRow = lRow

End Function

'Exit from the Userform

Private Sub cmdCancel\_Click()

Unload Me

End Sub

' Check all the data(except remarks field) has entered are not on the userform

Sub Data\_Validation()

If txtName = "" Then

MsgBox "Enter Name!", vbInformation, "Name"

Exit Sub

ElseIf frmData.obMale = False And frmData.obFMale = False Then

MsgBox "Select Gender!", vbInformation, "Gender"

Exit Sub

ElseIf txtLocation = "" Then

MsgBox "Enter Location!", vbInformation, "Location"

Exit Sub

ElseIf txtEAddr = "" Then

MsgBox "Enter Address!", vbInformation, "Email Address"

Exit Sub

ElseIf txtCNum = "" Then

MsgBox "Enter Contact Number!", vbInformation, "Contact Number"

Exit Sub

Else

BlnVal = 1

End If

End Sub

'Clearing data fields of userform

Private Sub cmdClear\_Click()

Application.ScreenUpdating = False

txtId.Text = ""

txtName.Text = ""

obMale.Value = True

txtLocation = ""

txtEAddr = ""

txtCNum = ""

txtRemarks = ""

Application.ScreenUpdating = True

End Sub

**Second User-Form:”UserForm1”**

This User-Form takes the information of the Region Your Country and subsequently the company is situated in that the particular employee works for. As far as I could understand Siemens has divided “FOUR” Regions: Americas, Middle East and Africa, Asia and Oceanic & Europe.

**CODE**

Private Sub CommandButton2\_Click()

If UserForm1.CheckBox1 = True Then

UserForm1.Hide

UserForm2.Show

Exit Sub

ElseIf UserForm1.CheckBox2 = True Then

UserForm1.Hide

UserForm3.Show

Exit Sub

ElseIf UserForm1.CheckBox3 = True Then

UserForm1.Hide

UserForm4.Show

Exit Sub

ElseIf UserForm1.CheckBox4 = True Then

UserForm1.Hide

UserForm5.Show

Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton1\_Click()

Unload Me

End Sub

**Third User-Form:”UserForm2”**

This user-form takes the information in which Siemens country company do you work in that particular region. This Particular form shows the Siemens Companies of the “Americas”.

**CODE:**

'Private Sub CommandButton1\_Click()

' If UserForm2.CheckBox1 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox2 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox3 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox4 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox5 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox6 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox7 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox8 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox9 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox10 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox11 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm2.CheckBox12 = True Then

' UserForm2.Hide

' UserForm(n).Show

' Exit Sub

' End If

'End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Fourth User-Form:”UserForm3”**

This user-form takes the information in which Siemens country company do you work in that particular region. This Particular form shows the Siemens Companies of the “Middle East and Africa”.

**CODE**

'Private Sub CommandButton1\_Click()

' If UserForm3.CheckBox1 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox2 = True Then

' UserForm3.Hide

' UserForm(n).Show

NOTE:

This Code is purposefully made a comment using “ ‘ ”, because I don’t have the information of the companies o any other sub units of these countries.

' Exit Sub

' ElseIf UserForm3.CheckBox3 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox4 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox5 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox6 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox7 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox8 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox9 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox10 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox11 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox12 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox13 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm3.CheckBox14 = True Then

' UserForm3.Hide

' UserForm(n).Show

' Exit Sub

' End If

'End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Fifth User-Form:”UserForm4”**

This user-form takes the information in which Siemens country company do you work in that particular region. This Particular form shows the Siemens Companies of the “Asia and Oceanic”.

Our Country comes in this region “India” (RC-IN), so only the Indian checkbox has been assigned another user form and the others are still comments.

**CODE**

'Variable Declaration

Dim BlnVal As Boolean

Private Sub CommandButton1\_Click()

' If UserForm4.CheckBox1 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox2 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox3 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox4 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox5 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox6 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

If UserForm4.CheckBox7 = True Then

UserForm4.Hide

UserForm6.Show

Exit Sub

' ElseIf UserForm4.CheckBox8 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

NOTE:

Most of this Code is purposefully made a comment using “ ‘ ”, because I don’t have the information of the companies of any other sub units of these countries.

' ElseIf UserForm4.CheckBox9 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox10 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox11 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox12 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox13 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox14 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox15 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox16 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox17 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox18 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox19 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox20 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox21 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox22 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox23 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox24 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox25 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm4.CheckBox26 = True Then

' UserForm4.Hide

' UserForm(n).Show

' Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Sixth User-Form:”UserForm5”**

This user-form takes the information in which Siemens country company do you work in that particular region. This Particular form shows the Siemens Companies of the “Europe”.

**CODE**

**NOTE: This Code is similar to the previous two, but is exceptionally big because there are 39 countries in Europe with Siemens in them, so it’s a long list.**

**Seventh User-Form:”UserForm6**

In this user form the program ask for which company do you work for in Siemens Ltd. (RC-IN). The Companies are: Energy, Finance, Healthcare, Mobility, Software and Industrial Automation.

As I have only knowledge about the Energy Company (SE) so only the Energy Checkbox is assigned to another user-form, the rest are in the form of comments.

**CODE**

Private Sub CommandButton1\_Click()

If UserForm6.CheckBox1 = True Then

UserForm6.Hide

UserForm7.Show

Exit Sub

' ElseIf UserForm6.CheckBox2 = True Then

' UserForm6.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm6.CheckBox3 = True Then

' UserForm6.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm6.CheckBox4 = True Then

' UserForm6.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm6.CheckBox5 = True Then

' UserForm6.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm6.CheckBox6 = True Then

' UserForm6.Hide

' UserForm(n).Show

' Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Eighth User-Form:”UserForm7”:**

This user form asks for which businesses do you work for under that company, in this scenario only the “Gas and Power” (GP) Checkbox is assigned to another Checkbox.

**CODE**

Private Sub CommandButton1\_Click()

If UserForm7.CheckBox1 = True Then

UserForm7.Hide

UserForm8.Show

Exit Sub

' ElseIf UserForm7.CheckBox2 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox3 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox4 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox5 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox6 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox7 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox8 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox9 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox10 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox11 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm7.CheckBox12 = True Then

' UserForm7.Hide

' UserForm(n).Show

' Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Ninth User-Form:”UserForm8”**

This user form asks about the country divisions of the particular business you work for like in this scenario in “Gas & Power” the country divisions are: Industrial Application, Transmission or Generation; or either any functions of that business like Finance or Sales, etc.

In this user form also not all further divisions are known except for “Generation” (G).

**CODE**

Private Sub CommandButton1\_Click()

' If UserForm8.CheckBox1 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm8.CheckBox2 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

If UserForm8.CheckBox3 = True Then

UserForm8.Hide

UserForm9.Show

Exit Sub

' ElseIf UserForm8.CheckBox4 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm8.CheckBox5 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm8.CheckBox6 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm8.CheckBox7 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm8.CheckBox8 = True Then

' UserForm8.Hide

' UserForm(n).Show

' Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Tenth User-Form:”UserForm9”**

This User Form asks about the Countries’ Business Unit you are a part of; in this scenario the only Business Unit which I know of further is “Large Rotating Equipment – Research and Development” (LRE-R&D).

**CODE**

Private Sub CommandButton1\_Click()

' If UserForm9.CheckBox1 = True Then

' UserForm9.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm9.CheckBox2 = True Then

' UserForm9.Hide

' UserForm(n).Show

' Exit Sub

' If UserForm9.CheckBox3 = True Then

' UserForm9.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm9.CheckBox4 = True Then

' UserForm9.Hide

' UserForm(n).Show

' Exit Sub

If UserForm9.CheckBox5 = True Then

UserForm9.Hide

UserForm10.Show

Exit Sub

' ElseIf UserForm9.CheckBox6 = True Then

' UserForm9.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm9.CheckBox7 = True Then

' UserForm9.Hide

' UserForm(n).Show

' Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Eleventh User-Form:”UserForm10”**

This Unit asks about the “Department” of the Business Unit you work for like in my case the Department is “Global Customer Operations”, it might as well be a function for that business unit like their Finances or Supply Chain Management.

**CODE**

Private Sub CommandButton1\_Click()

If UserForm10.CheckBox1 = True Then

UserForm10.Hide

UserForm11.Show

Exit Sub

' ElseIf UserForm10.CheckBox2 = True Then

' UserForm10.Hide

' UserForm(n).Show

' Exit Sub

' If UserForm10.CheckBox3 = True Then

' UserForm10.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm10.CheckBox4 = True Then

' UserForm10.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm10.CheckBox5 = True Then

' UserForm10.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm10.CheckBox6 = True Then

' UserForm10.Hide

' UserForm(n).Show

' Exit Sub

' ElseIf UserForm10.CheckBox7 = True Then

' UserForm10.Hide

' UserForm(n).Show

' Exit Sub

End If

End Sub

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Twelfth User-Form:”UserForm11”**

This user form is the final stage before addition of the record to the database, this user form asks for which team of the department you work for, and in my case it is the “Fluid Mechanical Systems”.

This user form will now finally Add the information to the database, the Region, Country, Company, Country Division, Business Unit, Department, Team all of these are shown in the form of their codes, like in my case the entire chain of command code is “RC-IN SE GP G LRE-R&D GCO FMS”

**CODE**

'Variable Declaration

Dim BlnVal As Boolean

Private Sub UserForm\_Initialize()

'Variable declaration

Dim IdVal As Integer

'Finding last row in the Data Sheet

IdVal = fn\_LastRow(Sheets("Data"))

'Update next available id on the userform

frmData.txtId = IdVal

End Sub

Sub cmdAdd\_Click()

On Error GoTo ErrOccured

'Boolean Value

BlnVal = 0

'TurnOff screen updating

With Application

.ScreenUpdating = False

.EnableEvents = False

End With

'Variable declaration

Dim txtId, txtName, GenderValue, txtLocation, txtCNum, txtEAddr, txtRemarks, CountryVal, CompanyVal, BusinessVal, CountryDivisionVal, CountryBusinessUnitVal, DepartmentVal, TeamVal

Dim iCnt As Integer

'find next available row to update data in the data worksheet

iCnt = fn\_LastRow(Sheets("Data")) + 1

'Find Gender value

If frmData.obMale = True Then

GenderValue = "Male"

Else

GenderValue = "Female"

End If

'Find Country Name

If UserForm4.CheckBox7 = True Then

CountryVal = "RC-IN"

Else

CountryVal = ""

End If

'Find Company Name

If UserForm6.CheckBox1 = True Then

CompanyVal = "SE"

Else

CompanyVal = ""

End If

'Find Business Name

If UserForm7.CheckBox1 = True Then

BusinessVal = "GP"

Else

BusinessVal = ""

End If

'Find Country Division Name

If UserForm8.CheckBox3 = True Then

CountryDivisionVal = "G"

Else

CountryDivisionVal = ""

End If

'Find Country Business Unit Name

If UserForm9.CheckBox5 = True Then

CountryBusinessUnitVal = "LRE-R&D"

Else

CountryBusinessUnitVal = ""

End If

'Find Department Name

If UserForm10.CheckBox1 = True Then

DepartmentVal = "GCO"

Else

DepartmentVal = ""

End If

'Find Team Name

If UserForm11.CheckBox2 = True Then

TeamVal = "FMS"

Else

TeamVal = ""

End If

'Update userform data to the Data Worksheet

With Sheets("Data")

.Cells(iCnt, 1) = iCnt - 1

.Cells(iCnt, 2) = frmData.txtName

.Cells(iCnt, 3) = GenderValue

.Cells(iCnt, 4) = frmData.txtLocation.Value

.Cells(iCnt, 5) = frmData.txtEAddr

.Cells(iCnt, 6) = frmData.txtCNum

.Cells(iCnt, 7) = frmData.txtRemarks

.Cells(iCnt, 8) = CountryVal

.Cells(iCnt, 9) = CompanyVal

.Cells(iCnt, 10) = BusinessVal

.Cells(iCnt, 11) = CountryDivisionVal

.Cells(iCnt, 12) = CountryBusinessUnitVal

.Cells(iCnt, 13) = DepartmentVal

.Cells(iCnt, 14) = TeamVal

'Diplay headers on the first row of Data Worksheet

If .Range("A1") = "" Then

.Cells(1, 1) = "Id"

.Cells(1, 2) = "Name "

.Cells(1, 3) = "Gender"

.Cells(1, 4) = "Location"

.Cells(1, 5) = "Email Addres "

.Cells(1, 6) = "Contact Number"

.Cells(1, 7) = "Remarks"

.Cells(1, 8) = "Country"

.Cells(1, 9) = "Company"

.Cells(1, 10) = "Business"

.Cells(1, 11) = "Country Div."

.Cells(1, 12) = "Coun. Bus. Unit"

.Cells(1, 13) = "Department"

.Cells(1, 14) = "Team"

'Formatiing Data

.Columns("A:N").Columns.AutoFit

.Range("A1:N1").Font.Bold = True

.Range("A1:N1").LineStyle = xlDash

End If

End With

'Display next available Id number on the Userform

'Variable declaration

Dim IdVal As Integer

'Finding last row in the Data Sheet

IdVal = fn\_LastRow(Sheets("Data"))

'Update next available id on the userform

frmData.txtId = IdVal

ErrOccured:

'TurnOn screen updating

Application.ScreenUpdating = True

Application.EnableEvents = True

End Sub

'In this example we are finding the last Row of specified Sheet

Function fn\_LastRow(ByVal Sht As Worksheet)

Dim lastRow As Long

lastRow = Sht.Cells.SpecialCells(xlLastCell).Row

lRow = Sht.Cells.SpecialCells(xlLastCell).Row

Do While Application.CountA(Sht.Rows(lRow)) = 0 And lRow <> 1

lRow = lRow - 1

Loop

fn\_LastRow = lRow

End Function

'Exit from the Userform

Private Sub CommandButton2\_Click()

Unload Me

End Sub

**Modules**

As this entire project is based on user forms the module portion only take cares of the basic appearance of the workbook.

**CODE:**

Sub Oval2\_Click()

frmData.Show

End Sub

Sub Clear\_DataSheet()

Sheets("Data").Columns("A:N").Clear

End Sub