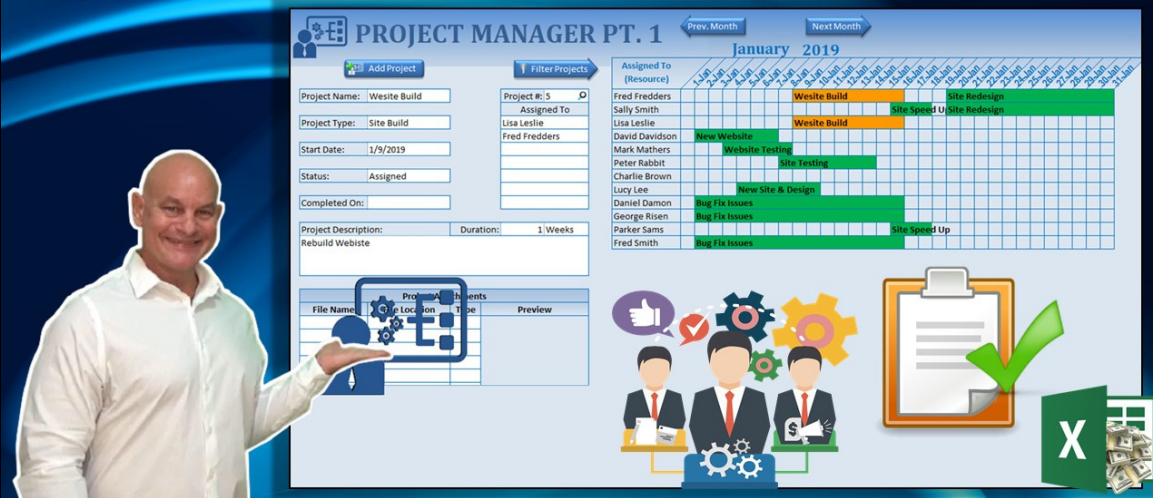


VBA SOURCE CODE BOOK

PROJECT MANAGER PT.1



PROJECT MANAGER PT. 1

Project Name: Website Build
Project Type: Site Build
Start Date: 1/9/2019
Status: Assigned
Project Description: Rebuild Website
Duration: 1 Weeks

Assigned To (Resource): Fred Fredders, Sally Smith, Lisa Leslie, David Davidson, Mark Mathers, Peter Rabbit, Charlie Brown, Lucy Lee, Daniel Damon, George Risen, Parker Sams, Fred Smith

Tasks: Website Build, Site Redesign, Site Speed Up, New Website, Website Testing, Site Testing, New Site & Design, Bug Fix Issues, Site Speed Up, Bug Fix Issues

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How To Create A Project Manager In Excel [Part 1]



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by: *Randy Austin*

ABOUT THE AUTHOR

A two-time Microsoft MVP & lifetime Excel enthusiast, Randy Austin founded Excel For Freelancers in 2017. Excel For Freelancers quickly became the most prominent resource Excel for developers to learn how to turn their passion for Excel into profits by building & selling their own excel-based applications for passive & recurring income.

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Option Explicit

Private Sub Worksheet_Change(ByVal Target As Range)

If Not Intersect(Target, Range("R2,X2")) Is Nothing Then ProjSched_Load

'On Project change but not on New Project or Project load

If Not Intersect(Target, Range("E4,E6,E8,E10,E12,D15,H14,I14")) Is Nothing And Range("B3").Value = False And Range("B2").Value = False Then

Dim ProjRow As Long

Dim ProjCol As Long

If Range("B4").Value = Empty Then Exit Sub

ProjRow = Range("B4").Value 'Project row

If IsNumeric(Cells(Target.Row, Target.Column + 50).Value) = False Then

MsgBox "Please check your data mapping." & vbCrLf & Cells(Target.Row, Target.Column + 50).Address & " should contain a number"

Exit Sub

End If

ProjCol = Cells(Target.Row, Target.Column + 50).Value

Sheet2.Cells(ProjRow, ProjCol).Value = Target.Value

ProjSched_Load 'Refresh Schedule

End If

'Load Project on Project # Change but not on Project Load

If Not Intersect(Target, Range("I4")) Is Nothing And Range("B2").Value = False Then Project_Load

'On Resource Change, but not on New Project Or Project Load

If Not Intersect(Target, Range("H6:H12")) Is Nothing And Range("B2").Value = False And Range("B3").Value = False Then

StopCalc

Dim ProjResRow As Long

If Range("J" & Target.Row).Value = Empty Then 'New Resource

ProjResRow = Sheet4.Range("A99999").End(xlUp).Row + 1

Else: 'Existing Resource

ProjResRow = Range("J" & Target.Row).Value 'Get Resource Row

If Range("H" & Target.Row).Value = Empty Then

Sheet4.Range(ProjResRow & ":" & ProjResRow).EntireRow.Delete

Project_LoadResources

ProjSched_Load

ResetCalc

Exit Sub

End If

End If

Sheet4.Range("A" & ProjResRow).Value = Range("I4").Value 'Add/Update Project Number

Sheet4.Range("B" & ProjResRow).Value = Target.Value 'Resource Name

Sheet4.Range("C" & ProjResRow).Value = "=IFERROR(INDEX(Proj_Name,MATCH(A" & ProjResRow & ",Proj_Numb,0),1)," & Chr(34) & Chr(34) & ")" 'Project Name

Sheet4.Range("D" & ProjResRow).Value = "=IFERROR(INDEX(Proj_StartDate,MATCH(A" & ProjResRow & ",Proj_Numb,0),1)," & Chr(34) & Chr(34) & ")" 'Start Date Formula

Sheet4.Range("E" & ProjResRow).Value = "=IFERROR(INDEX(Proj_EndDate,MATCH(A" & ProjResRow & ",Proj_Numb,0),1)," & Chr(34) & Chr(34) & ")" 'End Date Formula

Sheet4.Range("F" & ProjResRow).Value = "=IFERROR(MATCH(B" & ProjResRow & ",Resource_Name,0)+2," & Chr(34) & Chr(34) & ")" 'Resource Row

Sheet4.Range("G" & ProjResRow).Value = "=Row()"

Range("J" & Target.Row).Value = ProjResRow 'Add/Update Resource Row

ProjSched_Load 'Reload Schedule

ResetCalc

End If

End Sub

Private Sub Worksheet_SelectionChange(ByVal Target As Range)

1

```
54 1 If Target.CountLarge > 1 Then Exit Sub
55 If Not Intersect(Target, Range("P4:AT37" )) Is Nothing And IsNumeric(Cells(Target.Row,
Target.Column + 100).Value) = True Then Range("I4" ).Value = Cells(Target.Row, Target.
Column + 100).Value
56 End Sub
```

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1 Option Explicit

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1 Option Explicit

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1 Option Explicit
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1 Option Explicit
2
3 Sub ResetCalc()
4     With Application
5         .EnableEvents = True
6         .Calculation = xlCalculationAutomatic
7         .ScreenUpdating = True
8     End With
9 End Sub
10
11 Sub StopCalc()
12     With Application
13         .EnableEvents = False
14         .Calculation = xlCalculationManual
15         .ScreenUpdating = False
16     End With
17 End Sub
18
```


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```

1 Option Explicit
2 Sub Project_CancelNew()
3     'Load The last Added Project
4     Sheet1.Range("I4" ).Value = Sheet2.Range("A9999" ).End(xlUp).Value 'Last Entered
5     Project #
6 End Sub
7
8 Sub Project_Load()
9     Dim ProjRow As Long
10    Dim ProjCol As Long
11    With Sheet1
12        If .Range("B4" ).Value = Empty Then
13            MsgBox "Please select a correct Project or Project #"
14            Exit Sub
15        End If
16        .Range("B2" ).Value = True 'Set Project Load To True
17        StopCalc
18
19        ProjRow = .Range("B4" ).Value 'Project Row
20        For ProjCol = 1 To 9
21            .Range(Sheet2.Cells(1, ProjCol).Value).Value = Sheet2.Cells(ProjRow, ProjCol).Value
22            'Add In Project Details
23        Next ProjCol
24
25        'Load Assigned Resources
26        Project_LoadResources
27        .Shapes("ExistProjGrp" ).Visible = msoCTrue
28        .Shapes("NewProjGrp" ).Visible = msoFalse
29        .Range("B3" ).Value = False 'Set New Project to False
30        .Range("B2" ).Value = False 'Set Project Load To False
31    End With
32    ResetCalc
33 End Sub
34
35 Sub Project_LoadResources()
36    Dim LastResRow As Long
37    Dim LastResultRow As Long
38    With Sheet1
39        .Range("B2" ).Value = True 'Set Project Load to True
40        .Range("H6:J12" ).ClearContents
41        Sheet4.Range("H3" ).Value = .Range("I4" ).Value 'Project Number (Criteria)
42        Sheet4.Range("L3:R9999" ).ClearContents 'Clear Previous results
43        LastResRow = Sheet4.Range("A9999" ).End(xlUp).Row 'last Assigned Resource Row
44        Sheet4.Range("A2:G" & LastResRow).AdvancedFilter xlFilterCopy, CriteriaRange:=Sheet4.
45        Range("H2:H3" ), CopyToRange:=Sheet4.Range("L2:R2" ), Unique:=False
46        LastResultRow = Sheet4.Range("L999" ).End(xlUp).Row 'last Result Row
47        If LastResultRow < 3 Then GoTo NoData
48        .Range("H6:H12" ).Value = Sheet4.Range("M3:M9" ).Value 'Resource Names
49        .Range("J6:J12" ).Value = Sheet4.Range("R3:R9" ).Value 'Resource Row Numbers
50        NoData:
51        .Range("B2" ).Value = False 'Set Project Load To False
52    End With
53 End Sub
54
55 Sub Project_New()
56    With Sheet1
57        .Range("B2" ).Value = True 'Set Project Load To True
58        .Range("B3" ).Value = True 'Set Project New to True
59        .Range("E4,E6,E8,E10,E12,I4,H6:J12,H14,I14,D15:I17,D21:F26" ).ClearContents
60        .Shapes("ExistProjGrp" ).Visible = msoFalse
61        .Shapes("NewProjGrp" ).Visible = msoCTrue
62        .Range("B2" ).Value = False 'Set Project Load To False

```

```

1 2
59 End With
60 End Sub
61
62 Sub Project_Save()
63 Dim ProjRow As Long
64 Dim ProjCol As Long
65 Dim ResRow As Long
66 Dim ProjResRow As Long
67 With Sheet1
68 'Check For Required Fields
69 If .Range("E4").Value = Empty Or .Range("H14").Value = Empty Or .Range("I14").Value
= Empty Then
70 MsgBox "Please fill in the required fields"
71 Exit Sub
72 End If
73 StopCalc
74 .Range("B2").Value = True 'Set Project Load to True (So project is not loaded when
Project # is placed)
75 ProjRow = Sheet2.Range("A9999").End(xlUp).Row + 1 'First Available row
76 .Range("I4").Value = .Range("B6").Value 'Add in Next Project Number
77 For ProjCol = 1 To 9
78 Sheet2.Cells(ProjRow, ProjCol).Value = .Range(Sheet2.Cells(1, ProjCol).Value).Value
'Add in Project value
79 Next ProjCol
80 Sheet2.Range("J1:K1").Copy
81 Sheet2.Range("J" & ProjRow & ":K" & ProjRow).PasteSpecial xlPasteFormulas
82 Application.CutCopyMode = False
83
84 'Save Resources
85 For ResRow = 6 To 12
86 If .Range("H" & ResRow).Value <> Empty Then
87 ProjResRow = Sheet4.Range("A9999").End(xlUp).Row + 1
88 Sheet4.Range("A" & ProjResRow).Value = .Range("I4").Value 'Project Number
89 Sheet4.Range("B" & ProjResRow).Value = .Range("H" & ResRow).Value 'Resource
Name
90 Sheet4.Range("C" & ProjResRow).Value = "=IFERROR(INDEX(Proj_Name,MATCH(A" &
ProjResRow & ",Proj_Numb,0),1)," & Chr(34) & Chr(34) & ")" 'Project Name
91 Sheet4.Range("D" & ProjResRow).Value = "=IFERROR(INDEX(Proj_StartDate,MATCH(A"
& ProjResRow & ",Proj_Numb,0),1)," & Chr(34) & Chr(34) & ")" 'Start Date
92 Sheet4.Range("E" & ProjResRow).Value = "=IFERROR(INDEX(Proj_EndDate,MATCH(A" &
ProjResRow & ",Proj_Numb,0),1)," & Chr(34) & Chr(34) & ")" 'End Date Formula
93 Sheet4.Range("F" & ProjResRow).Value = "=IFERROR(MATCH(B" & ProjResRow &
",Resource_Name,0)+2," & Chr(34) & Chr(34) & ")" 'Resource Row
94 Sheet4.Range("G" & ProjResRow).Value = "=Row()"
95 .Range("J" & ResRow).Value = ProjResRow 'Set Project Resource Row
96 End If
97 Next ResRow
98
99 .Range("B2").Value = False 'Set Project Load To False
100 .Range("B3").Value = False 'Set New Project to False
101 .Shapes("ExistProjGrp").Visible = msoCTrue
102 .Shapes("NewProjGrp").Visible = msoFalse
103 End With
104 ProjSched_Load 'Reload Schedule
105 ResetCalc
106 End Sub

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```

1 Option Explicit
2
3
4 Sub HideFilters()
5     With Sheet1
6         .Shapes("ShowFiltBtn").Visible = msoCTrue
7         .Shapes("HideFiltBtn").Visible = msoFalse
8         .Range("M:N").EntireColumn.Hidden = True
9     End With
10 End Sub
11
12 Sub NextMonth()
13     With Sheet1
14         If .Range("B5").Value = 12 Then
15             .Range("B5").Value = 1
16             .Range("R2").Value = "January"
17             .Range("X2").Value = .Range("X2").Value + 1
18         Else:
19             .Range("B5").Value = .Range("B5").Value + 1
20             .Range("R2").Value = .Range("A" & 18 + .Range("B5").Value).Value
21         End If
22     ProjSched_Load
23 End With
24 End Sub
25
26 Sub PrevMonth()
27     With Sheet1
28         If .Range("B5").Value = 1 Then
29             .Range("B5").Value = 12
30             .Range("R2").Value = "December"
31             .Range("X2").Value = .Range("X2").Value - 1
32         Else:
33             .Range("B5").Value = .Range("B5").Value - 1
34             .Range("R2").Value = .Range("A" & 18 + .Range("B5").Value).Value
35         End If
36     ProjSched_Load
37 End With
38 End Sub
39
40 Sub ProjSched_Load()
41     Dim LastProjRow As Long
42     Dim LastResultRow As Long
43     Dim ResultRow As Long
44     Dim ProjSchedRow As Long
45     Dim ProjSchedCol As Long
46     Dim LastSchedRow As Long
47     Dim SchedRow As Long
48     Dim FoundJob As Range
49     StopCalc
50     With Sheet1
51         .Range("P4:AT37").ClearContents 'Clear Existing Projects
52         .Range("B5").Value = Application.WorksheetFunction.Match(.Range("R2").Value, .Range(
53             "Months").Value, 0)
54         'Run Advanced Filter
55         Sheet4.Range("H3,L3:R999").ClearContents 'Clear Previous Criteria & results
56         LastProjRow = Sheet4.Range("A99999").End(xlUp).Row 'Last Project Row
57         Sheet4.Range("A2:G" & LastProjRow).AdvancedFilter xlFilterCopy, CriteriaRange:=Sheet4.
58             Range("I2:J3"), CopyToRange:=Sheet4.Range("L2:R2"), Unique:=False
59         LastResultRow = Sheet4.Range("L99999").End(xlUp).Row 'Last Results Row
60         If LastResultRow < 3 Then GoTo NoData
61         For ResultRow = 3 To LastResultRow
62             ProjSchedRow = Sheet4.Range("Q" & ResultRow).Value + 1 'Resource Row + 1
63             ProjSchedCol = Day(Sheet4.Range("O" & ResultRow).Value) + 15 'Column Based on

```

1 2 3

```
1 2 3
60 Start Date 'Day'
    .Cells(ProjSchedRow, ProjSchedCol).Value = Sheet4.Range("N" & ResultRow).Value
    'Project name
61 Next ResultRow
62 NoData:
63 LastSchedRow = Sheet3.Range("A99999" ).End(xlUp).Row + 1
64 For SchedRow = 4 To LastSchedRow
65     If .Range("DL" & SchedRow).Value <> "" And .Range("P" & SchedRow).Value = Empty
66         Then 'Add Project Name on First Day of month
67             Set FoundJob = Sheet2.Range("Proj_Numb" ).Find(.Range("DL" & SchedRow).Value, ,
                xlValues, xlWhole)
68             If Not FoundJob Is Nothing Then .Range("P" & SchedRow).Value = Sheet2.Range("B"
                & FoundJob.Row).Value
69         End If
70     Next SchedRow
71 End With
72 ResetCalc
73 End Sub
74 Sub ShowFilters()
75     With Sheet1
76         .Shapes("ShowFiltBtn" ).Visible = msoFalse
77         .Shapes("HideFiltBtn" ).Visible = msoCTrue
78         .Range("M:N" ).EntireColumn.Hidden = False
79     End With
80 End Sub
```

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Thank You!

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Thank you so much for your continued shares, likes and support. It really helps.



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