

VBA SOURCE CODE BOOK

EMPLOYEE JOB SCHEDULING

Job Name: Franks Garage Employee: Dave Davidson Job Date: Monday, January 1, 2024 Notes: Notes

Employees	Monday, January 1, 2024	Tuesday, January 2, 2024	Wednesday, January 3, 2024	Thursday, January 4, 2024	Friday, January 5, 2024	Saturday, January 6, 2024	Sunday, January 7, 2024
Fred Fredders		Jim's Kitchen Remodel					
Dave Davidson	Franks Garage						
Peter Parker							
Mary Smith							
Mark Mason							
Jack Johnson						Jack Inspection	
Lisa Mathews							
Greg Perkins			Fredders House Fix				
Anita Withers							
Kay Hopkins							
Larry Daniels			Franks Garage				
Tim Simmons							
Henry James							

FROM SCRATCH!

DRAG & DROP SHAPES

Excel For Freelancers

Mastering Drag & Drop Shapes In Excel



[DOWNLOAD
APPLICATION](#)



[VIEW
TRAINING](#)

by: *Randy Austin*

ABOUT THE AUTHOR

A 4-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.

With over 471,000 YouTube subscribers, 35,448,742 video views, 430+ comprehensive training videos, and a thriving 65,000 member Facebook community, Excel For Freelancers has positioned itself as the #1 Excel developers resource in the world.

Get free content, training, and downloads just by clicking any of the free resources below:



[WEBSITE](#)



[YOUTUBE](#)



[FACEBOOK](#)



[TWITTER](#)



[DISCORD](#)



[INSTAGRAM](#)



[TELEGRAM](#)



[RUMBLE](#)



Microsoft[®]
Most Valuable
Professional



OUR COURSES & PRODUCTS



This comprehensive program will take you through a 12-phase process that will turn your enthusiasm for Excel into passive income.

[Click here to learn more](#)



16 hour masterclass that will teach you the tips, tricks and techniques on how to create a dynamic single-click dashboard, and a ton more

[Click here to learn more](#)

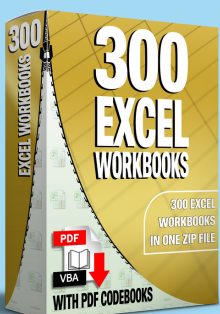
-



This incredible 13-hour freelancer masterclass will teach anyone how to be a successful freelancer with my proven 9-Phase 'Financial Freedom Roadmap' and includes 30+ downloads and exercises.

[Click here to learn more](#)

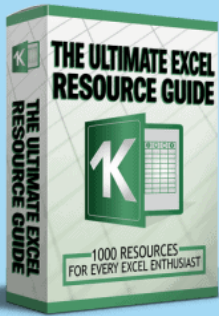
-



Incredible Package of 300 of my BEST Applications with PDF VBA Codebooks packed into a SINGLE ZIP File which also includes the "300 Workbook Library".

[Click here to learn more](#)

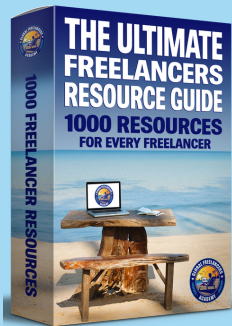
OUR COURSES & PRODUCTS



With 1000 live links, continuously updating content, sort-able and filterable items, you will always have exactly what you need, when you need it.

[Click here to learn more](#)

-



Freelancing essentials from freelance tools to freelance templates, in this Ultimate Freelancer's Resource Guide for freelancers at any stage in their career. With 1,000 Live Links, and a single click-to-update application, you will always have the most current and up-to-date information at your fingertips.

[Click here to learn more](#)

-



Revolutionize the way you work with Excel and take productivity to the next level with the Excel AI Toolpack - the FIRST AI tool designed for ANY Windows Desktop version of Excel. This incredible add-in combines FIVE powerful AI tools, transforming your Excel into an intelligent powerhouse!

[Click here to learn more](#)

Table of Contents

Projects.....	2
VBAProject.....	2
Documents.....	2
EmpDB.....	2
(Declarations).....	2
JobsDB.....	3
(Declarations).....	3
ProcessSteps.....	4
(Declarations).....	4
Schedule.....	5
(Declarations).....	5
Sheet1.....	6
(Declarations).....	6
ThisWorkbook.....	7
(Declarations).....	7
Modules.....	8
DragDrop_Macros.....	8
(Declarations).....	8
Job_CheckForMove [Sub].....	8
Job_Macros.....	9
(Declarations).....	9
Job_Delete [Sub].....	9
Job_Load [Sub].....	9
Job_New [Sub].....	9
Job_SaveUpdate [Sub].....	9
Schedule_Macros.....	10
(Declarations).....	10
Schedule_Job_Select [Sub].....	10
Schedule_NextWeek [Sub].....	10
Schedule_PrevWeek [Sub].....	10
Schedule_Refresh [Sub].....	10

1 Option Explicit

2

1 Option Explicit

2

1 Option Explicit

2

1 Option Explicit

2

1
2

Option Explicit

1 Option Explicit

2

```

1  Option Explicit
2
3  Sub Job_CheckForMove()
4      Dim DestRow As Long, DestCol As Long, JobRow As Long, JobCol As Long, CountDelay As
5          Long
6          Dim JobID As String, DestEmpl As String
7          Dim DestDate As Date
8          With Schedule
9              If .Range("B3" ).Value = Empty Then Exit Sub
10             JobID = .Range("B2" ).Value 'Select Job ID
11             JobRow = .Range("B3" ).Value 'Select Job DB Row
12             For CountDelay = 1 To 100000
13                 DoEvents
14                 If .Range("B12" ).Value = True Then GoTo EndDragDrop 'Exit loop move job =
15                     True
16                     With .Shapes("SchedJob" & JobID)
17                         If .Left <> Schedule.Range("B10" ).Value Or .Top <> Schedule.Range("B11" ).
18                             Value Then 'Shape has been moved
19                             'Check to see if shape is moved within proper grid area
20                             If .Left < Schedule.Range("E1" ).Left Or .Left > Schedule.Range("L1" ).
21                                 Left Or .Top < Schedule.Range("E6" ).Top - 1 Or Schedule.Range("D" & .
22                                     TopLeftCell.Row).Value = Empty Then
23                                     MsgBox "Please move the job shape within the given schedule"
24                                     GoTo EndDragDrop
25                                 End If
26                                 DestDate = Schedule.Cells(5, .TopLeftCell.Column).Value 'Destination
27                                 Date
28                                 DestEmpl = Schedule.Range("D" & .TopLeftCell.Row).Value 'Destination
29                                 Employee
30                                 JobsDB.Range("C" & JobRow).Value = DestEmpl 'Update Employee
31                                 JobsDB.Range("D" & JobRow).Value = DestDate 'Update Date
32                                 GoTo EndDragDrop
33                             End If
34                         End With
35                     End With
36                 Next CountDelay
37             EndDragDrop:
38             Schedule_Refresh 'Refresh Schedule
39             Job_Load 'Refresh job data
40             .Range("B12" ).Value = True
41         End With
42     End Sub

```

```

1 Option Explicit
2
3 Dim JobRow As Long, JobCol As Long
4
5 Sub Job_Delete()
6     If MsgBox("Are you sure you want to delete this Job?" , vbYesNo, "Delete Job" ) =
7         vbNo Then Exit Sub
8     With Schedule
9         If .Range("B3" ).Value = Empty Then GoTo NotSaved
10        JobRow = .Range("B3" ).Value 'Job DB Row
11        JobsDB.Range(JobRow & ":" & JobRow).EntireRow.Delete
12        NotSaved:
13        Job_New
14        Schedule_Refresh 'Run macro to refresh Schedule
15    End With
16 End Sub
17
18 Sub Job_Load()
19     With Schedule
20         If .Range("B3" ).Value = Empty Then
21             MsgBox "Please select a correct Job to load"
22             Exit Sub
23         End If
24         Application.ScreenUpdating = False
25         JobRow = .Range("B3" ).Value 'Job DB Row
26         For JobCol = 2 To 5
27             .Range(JobsDB.Cells(1, JobCol).Value).Value = JobsDB.Cells(JobRow, JobCol).
28                 Value 'Bring Over Data
29         Next JobCol
30         Application.ScreenUpdating = True
31     End With
32 End Sub
33
34 Sub Job_New()
35     Schedule.Range("B2,E3,G3,I3,K3" ).ClearContents 'Clear Out Existing Cells
36 End Sub
37
38 Sub Job_SaveUpdate()
39     With Schedule
40         If Application.WorksheetFunction.CountA(.Range("E3,G3,I3" )) < 3 Then
41             MsgBox "Please fill in the required fields, Job Name, Employee & Date"
42             Exit Sub
43         End If
44         Application.ScreenUpdating = False
45         If .Range("B3" ).Value = Empty Then 'New Job
46             JobRow = JobsDB.Range("A9999" ).End(xlUp).Row + 1 'First Avail. Row
47             .Range("B2" ).Value = .Range("B4" ).Value 'Next Job ID
48             JobsDB.Range("A" & JobRow).Value = .Range("B2" ).Value 'Job ID
49         Else 'Existing
50             JobRow = .Range("B3" ).Value
51         End If
52         For JobCol = 2 To 5
53             JobsDB.Cells(JobRow, JobCol).Value = .Range(JobsDB.Cells(1, JobCol).Value).
54                 Value 'Bring Over Data
55         Next JobCol
56         Schedule_Refresh 'Run macro to refresh Schedule
57         Application.ScreenUpdating = True
58     End With
59 End Sub

```

```

1 Option Explicit
2
3 Dim JobRow As Long, JobCol As Long, LastRow As Long, LastResultRow As Long, ResultRow
  As Long
4 Dim JobID As String, JobName As String, JobEmpl As String
5 Dim JobShp As Shape
6 Dim JobDate As Date
7
8
9 Sub Schedule_Job_Select()
10 With Schedule
11 JobID = Replace(Application.Caller, "SchedJob", "" ) 'Extract ID
12 .Range("B2" ).Value = JobID 'Set Job ID
13 .Range("B10" ).Value = .Shapes(Application.Caller).Left 'Set Left Pos. of
  Current Selected Shape
14 .Range("B11" ).Value = .Shapes(Application.Caller).Top 'Set Top Pos of Sel.
  Shape
15 .Range("B12" ).Value = False 'Set Move Shape To False
16 .Shapes(Application.Caller).Select 'Select On shape
17 Job_Load
18 Job_CheckForMove
19 End With
20 End Sub
21
22 Sub Schedule_NextWeek()
23 Schedule.Range("E5" ).Value = Schedule.Range("E5" ).Value + 7
24 Schedule_Refresh
25 End Sub
26
27 Sub Schedule_PrevWeek()
28 Schedule.Range("E5" ).Value = Schedule.Range("E5" ).Value - 7
29 Schedule_Refresh
30 End Sub
31
32 Sub Schedule_Refresh()
33 'Clear All existing Job shapes
34 For Each JobShp In Schedule.Shapes
35 If InStr(JobShp.Name, "SchedJob" ) > 0 Then JobShp.Delete 'Delete only shapes
  based on job
36 Next JobShp
37
38 With JobsDB
39 LastRow = .Range("A99999" ).End(xlUp).Row 'Last Row Of data
40 If LastRow < 4 Then Exit Sub
41 .Range("A3:E" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
  "I2:J3" ), CopyToRange:=.Range("L2:P2" ), Unique:=True
42 LastResultRow = .Range("L99999" ).End(xlUp).Row ' Last Results Row
43 If LastResultRow < 3 Then Exit Sub
44 Application.ScreenUpdating = False
45 For ResultRow = 3 To LastResultRow
46 JobID = .Range("L" & ResultRow).Value 'Job ID
47 JobName = .Range("M" & ResultRow).Value 'Job Name
48 JobEmpl = .Range("N" & ResultRow).Value ' Job Employee
49 JobDate = .Range("O" & ResultRow).Value 'Job Date
50 JobCol = JobDate - [WeekStart] + 5 'Job Column
51 On Error Resume Next
52 JobRow = Schedule.Range("D6:D9999" ).Find(JobEmpl, , xlValues, xlWhole).Row
  'Extract Row
53 On Error GoTo 0
54 If JobRow = 0 Then GoTo NextJob
55 Schedule.Shapes("SampleJobShp" ).Duplicate.Name = "SchedJob" & JobID

```

1 2 3

```
1 2 3
56 'Duplicate & rename with unique name
57 With Schedule.Shapes("SchedJob" & JobID)
58 .Left = Schedule.Cells(JobRow, JobCol).Left 'Set Left Pos.
59 .Top = Schedule.Cells(JobRow, JobCol).Top 'Set Top Position
60 .Width = Schedule.Cells(JobRow, JobCol).Width - 2 'Set Width Of Shape
61 .Height = Schedule.Cells(JobRow, JobCol).Height - 1 'Set height of Shape
62 .TextFrame2.TextRange.Text = JobName 'Set Job Name as shape text
63 .OnAction = "Schedule_Job_Select" 'Macro To Run
64 End With
65 NextJob:
66 Next ResultRow
67 Application.ScreenUpdating = True
68 End With
End Sub
```

A

AdvancedFilter, 10
Application, 9-11

C

Caller, 10
Cells, 8, 9, 11
ClearContents, 9
Column, 8
CopyToRange, 10
CountA, 9
CountDelay, 8
CriteriaRange, 10

D

Delete, 9, 10
DestCol, 8
DestDate, 8
DestEmpl, 8
DestRow, 8
DoEvents, 8
Duplicate, 10

E

Empty, 8, 9
EndDragDrop, 8
EntireRow, 9
Explicit, 2-10

F

Find, 10

H

Height, 11

I

InStr, 10

J

Job_CheckForMove, 8, 10
Job_Delete, 9
Job_Load, 8-10
Job_New, 9
Job_SaveUpdate, 9
JobCol, 8-11
JobDate, 10
JobEmpl, 10
JobID, 8, 10, 11
JobName, 10, 11
JobRow, 8-11
JobsDB, 8-10
JobShp, 10

L

LastResultRow, 10
LastRow, 10
Left, 8, 10, 11

M

MsgBox, 8, 9

N

Name, 10
NextJob, 10, 11
NotSaved, 9

O

OnAction, 11

R

Range, 8-10
Replace, 10
ResultRow, 10, 11
Row, 8-10

S

Schedule, 8-11
Schedule_Job_Select, 10
Schedule_NextWeek, 10
Schedule_PrevWeek, 10
Schedule_Refresh, 8-10
ScreenUpdating, 9-11
Shape, 10
Shapes, 8, 10, 11

T

Text, 11
TextFrame2, 11
TextRange, 11
Top, 8, 10, 11
TopLeftCell, 8

U

Unique, 10

V

Value, 8-10
vbNo, 9
vbYesNo, 9

W

WeekStart, 10
Width, 11
WorksheetFunction, 9

X

xlFilterCopy, 10
xlUp, 9, 10
xlValues, 10
xlWhole, 10

Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

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



Excel For Freelancers