

VBA SOURCE CODE BOOK



**How To Create A Mobile App
From Any Excel Sheet
[Full Sales Order Application]**



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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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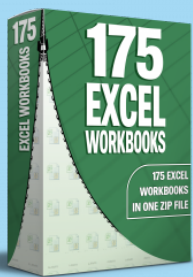
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Option Explicit

Private Sub Worksheet_Change(ByVal Target As Range)

'Load Order on Order # Change

If Not Intersect(Target, Range("E5")) Is Nothing And Range("B3").Value <> Empty Then
Order_Load

'On Change of Customer, Load Customer details

If Not Intersect(Target, Range("E7")) Is Nothing And Range("B4").Value <> Empty Then
CustomerLoad

'On Change of Product, to existing product, reset to B12 to Existing Product

If Not Intersect(Target, Range("E13")) Is Nothing And Range("B11").Value <> Empty And
Range("B12").Value = True Then Range("B12").Value = False

'On Change of Product, Load Product

If Not Intersect(Target, Range("E13")) Is Nothing _
And Range("E13").Value <> Empty _
And Range("B9").Value = False _
And Range("B12").Value = False _
Then Product_Load

End Sub

Private Sub Worksheet_SelectionChange(ByVal Target As Range)

If Target.CountLarge > 4 Then Exit Sub

If Not Intersect(Target, Range("D20:K49")) Is Nothing And Range("D" & Target.Row).Value
<> Empty Then

Range("B5").Value = Target.Row

Range("B9").Value = True

Product_Load

Range("B9").Value = False

End If

End Sub

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```
1 Option Explicit
2
3 Sub CustomerLoad()
4     With Sheet1
5         Dim CustRow As Long
6         If .Range("B4").Value = Empty Then
7             MsgBox "Please select a correct Customer from the drop down list"
8             Exit Sub
9         End If
10        CustRow = .Range("B4").Value
11        .Range("H7").Value = Sheet2.Range("B" & CustRow).Value 'Email
12        .Range("K7").Value = Sheet2.Range("C" & CustRow).Value 'Phone
13        .Range("E9").Value = Sheet2.Range("D" & CustRow).Value 'Address
14        .Range("H9").Value = Sheet2.Range("E" & CustRow).Value 'City
15        .Range("K9").Value = Sheet2.Range("F" & CustRow).Value 'State
16        .Range("K11").Value = Sheet2.Range("G" & CustRow).Value 'Zip
17        .Range("H11").Value = Sheet2.Range("H" & CustRow).Value 'Customer Since
18    End With
19 End Sub
```

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1  Option Explicit
2  Sub Order_CancelNew()
3      If Sheet3.Range("A2" ).Value <> Empty Then Sheet1.Range("E5" ).Value = Sheet3.Range("A2" )
        .Value 'Place First Order ID to load order
4  End Sub
5
6  Sub Order_Delete()
7      Dim OrderRow As Long
8      If MsgBox("Are you sure you want to delete this order?" , vbYesNo, "Delete Order" ) = vbNo
        Then Exit Sub
9      If Sheet1.Range("B3" ).Value = Empty Then Exit Sub
10     OrderRow = Sheet1.Range("B3" ).Value 'Order Row
11     Sheet3.Range(OrderRow & ":" & OrderRow).EntireRow.Delete
12     Order_CancelNew
13 End Sub
14
15 Sub Order_Load()
16     Dim OrderRow As Long
17     Dim LastRow As Long
18     Dim LastResultsRow As Long
19     With Sheet1
20         If .Range("B3" ).Value = Empty Then
21             MsgBox "Please select a correct order ID # from the drop down list"
22             Exit Sub
23         End If
24         .Range("K3,H5,K5,E7,H7,K7,E9,H9,K9,H11,K11,E13,H13,E15,H15,E17,J13" ).ClearContents
            'Clear Fields
25         .Range("D20:J49,L20:L49" ).ClearContents
26         OrderRow = .Range("B3" ).Value 'Order Row
27         .Range("H5" ).Value = Sheet3.Range("B" & OrderRow).Value 'Status
28         .Range("E7" ).Value = Sheet3.Range("C" & OrderRow).Value 'Customer Name
29         .Range("K3" ).Value = Sheet3.Range("D" & OrderRow).Value 'Order Date
30         .Range("K5" ).Value = Sheet3.Range("E" & OrderRow).Value 'Delivery Date
31
32         'Load Order Details
33         Sheet4.Range("M2:S9999" ).ClearContents 'Clear Previous cells
34
35         Sheet4.Range("L2" ).Value = .Range("E5" ).Value 'Order Id
36         LastRow = Sheet4.Range("A9999" ).End(xlUp).Row
37         Sheet4.Range("A1:G" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=Sheet4.
            Range("L1:L2" ), CopyToRange:=Sheet4.Range("M1:S1" ), Unique:=False
38         LastResultsRow = Sheet4.Range("M9999" ).End(xlUp).Row 'Last results row
39         If LastResultsRow < 2 Then GoTo NoData 'No Results Data
40         .Range("D20:E" & LastResultsRow + 18).Value = Sheet4.Range("N2:O" & LastRow).Value
            'Product Name/ Description
41         .Range("H20:J" & LastResultsRow + 18).Value = Sheet4.Range("P2:R" & LastRow).Value
            'Order Details
42         .Range("L20:L" & LastResultsRow + 18).Value = Sheet4.Range("S2:S" & LastRow).Value
            'Row Numbers
43         .Range("B6" ).Value = False 'Set New Order To False
44         .Shapes("ExistOrderGrp" ).Visible = msoCTrue
45         .Shapes("NewOrderGrp" ).Visible = msoFalse
46     End With
47     NoData:
48 End Sub
49
50 Sub Order_New()
51     With Sheet1
52         .Range("E5,K3,H5,K5,E7,H7,K7,E9,H9,K9,H11,K11,E13,H13,E15,H15,E17,J13" ).ClearContents
            'Clear Fields
53         .Range("D20:J49,L20:L49" ).ClearContents

```

```

1 2
54 .Range("K3" ).Value = Now
55 .Range("E5" ).Value = Application.WorksheetFunction.Max(Sheet3.Range("OrderID" )) + 1
    'Add in next Order ID#
56 .Shapes("ExistOrderGrp" ).Visible = msoFalse
57 .Shapes("NewOrderGrp" ).Visible = msoCTrue
58 .Range("B6" ).Value = True 'New Order
59 On Error Resume Next
60 .Shapes("ThumbPic" ).Delete
61 On Error GoTo 0
62 End With
63 End Sub

64
65 Sub Order_SaveUpdate()
66 Dim OrderRow As Long
67 Dim ItemRow As Long
68 Dim OrderDetailRow As Long
69 Dim LastItemRow As Long
70 Dim ProdRow As Long
71 With Sheet1
72 If .Range("B3" ).Value = Empty Then 'New Order
73     OrderRow = Sheet3.Range("A9999" ).End(xlUp).Row + 1 'First available order row
74     Sheet3.Range("A" & OrderRow).Value = .Range("E5" ).Value 'Set next incremental
        order ID
75 Else: 'Existing Order
76     OrderRow = .Range("B3" ).Value 'Existing Order Row
77 End If
78 Sheet3.Range("B" & OrderRow).Value = .Range("H5" ).Value 'Status
79 Sheet3.Range("C" & OrderRow).Value = .Range("E7" ).Value 'Customer Name
80 Sheet3.Range("D" & OrderRow).Value = .Range("K3" ).Value 'Order Date
81 Sheet3.Range("E" & OrderRow).Value = .Range("K5" ).Value 'Delivery Date
82 Sheet3.Range("F" & OrderRow).Value = .Range("H5" ).Value 'Total Cost
83
84 'Save/Update Item Details
85 LastItemRow = .Range("D999" ).End(xlUp).Row 'Last Item Row
86 If LastItemRow < 20 Then GoTo NoItems
87 For ItemRow = 20 To LastItemRow
88     If .Range("L" & ItemRow).Value = Empty Then 'New Row
89         OrderDetailRow = Sheet4.Range("A9999" ).End(xlUp).Row + 1 'First Avail. Row
90         Sheet4.Range("A" & OrderDetailRow).Value = .Range("E5" ).Value 'Order ID
91         Sheet4.Range("G" & OrderDetailRow).Value = "=Row()" 'Add Row #
92         .Range("L" & ItemRow).Value = OrderDetailRow
93     Else: 'Existing Item
94         OrderDetailRow = .Range("L" & ItemRow).Value 'Existing Item Order Row
95     End If
96     Sheet4.Range("B" & OrderDetailRow & ":C" & OrderDetailRow).Value = .Range("D" &
        ItemRow & ":E" & ItemRow).Value 'Name & Description
97     Sheet4.Range("D" & OrderDetailRow & ":F" & OrderDetailRow).Value = .Range("H" &
        ItemRow & ":J" & ItemRow).Value 'ID, Qty & Price
98 Next ItemRow
99 NoItems:
100 End With
101 End Sub

```

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1  Option Explicit
2  Sub Prod_AddNew()
3      With Sheet1
4          .Range("E13,E15,E17,H13,H15,J13" ).ClearContents
5          .Shapes("SaveProdBtn" ).Visible = msoCTrue
6          .Shapes("UpdateProdBtn" ).Visible = msoFalse
7          On Error Resume Next
8          .Shapes("ThumbPic" ).Delete
9          On Error GoTo 0
10         .Range("B12" ).Value = True 'Set New Product To True
11         .Range("E13" ).Select
12     End With
13 End Sub
14
15 Sub Prod_Clear()
16     With Sheet1
17         .Range("E13,E15,E17,H13,H15,J13" ).ClearContents 'Clear Fields
18         On Error Resume Next
19         .Shapes("ThumbPic" ).Delete 'Clear Picture
20         On Error GoTo 0
21         .Range("E13" ).Select
22     End With
23 End Sub
24
25
26 Sub Product_AddPic()
27     Dim PicFile As FileDialog
28     Dim ProdRow As Long
29     Dim PicPath As String
30     Dim FileLoc As String
31     FileLoc = ThisWorkbook.Path
32     With Sheet1
33         Set PicFile = Application.FileDialog(msoFileDialogFilePicker)
34         With PicFile
35             .Title = "Select A Product Picture"
36             .Filters.Add "All Picture Files" , "*.jpg,*jpeg,*.gif,*.png,*.gif,*bmp,*.tiff" , 1
37             If .Show <> -1 Then GoTo NoSelection
38             Sheet1.Range("J13" ).Value = Dir(.SelectedItems(1)) 'Put File name in cell K6
39             PicPath = .SelectedItems(1)
40             'Copy the picture to the main application folder
41             FileCopy .SelectedItems(1), FileLoc & "\" & Dir(.SelectedItems(1))
42         End With
43         On Error Resume Next
44         .Shapes("ThumbPic" ).Delete
45         On Error GoTo 0
46         On Error Resume Next
47         With .Pictures.Insert(PicPath)
48             With .ShapeRange
49                 .LockAspectRatio = msoTrue
50                 .Height = 45
51                 .Name = "ThumbPic"
52             End With
53         End With
54         With .Shapes("ThumbPic" )
55             .Left = Sheet1.Range("J13" ).Left
56             .Top = Sheet1.Range("J13" ).Top
57             .IncrementLeft 30
58             .IncrementTop 5
59         End With
60         .Range("B12" ).Value = False 'Set New Product To False
61

```

```

1 2
62     NoSelection:
63     End With
64 End Sub
65 Sub Product_AddToList()
66     Dim ListRow As Long
67     With Sheet1
68         If .Range("B11").Value = Empty Then
69             MsgBox "Please select a Product from the list to add"
70             Exit Sub
71         End If
72         If .Range("E17").Value = Empty Then
73             MsgBox "Please add in a Sales Quantity"
74             Exit Sub
75         End If
76
77         ListRow = .Range("D999").End(xlUp).Row + 1 'First Avail. Row
78         .Range("D" & ListRow).Value = .Range("E13").Value 'Product Name
79         .Range("E" & ListRow).Value = .Range("E15").Value 'Description
80         .Range("H" & ListRow).Value = .Range("H13").Value 'Product ID
81         .Range("I" & ListRow).Value = .Range("E17").Value 'Sales Qty
82         .Range("J" & ListRow).Value = .Range("H15").Value 'Price
83         .Range("B5").Value = ListRow 'Set selected row to new row
84     End With
85 End Sub
86
87 Sub Product_Load()
88     Dim ProdRow As Long
89     Dim PicPath As String
90     Dim FileLoc As String
91     With Sheet1
92         FileLoc = ThisWorkbook.Path
93
94         If .Range("B9").Value = True Then 'Product Load From Table Below
95             ProdRow = .Range("B7").Value 'Product Row
96             .Range("E13").Value = Sheet5.Range("B" & ProdRow).Value 'Product Name
97         Else: 'Change To Product
98             ProdRow = .Range("B11").Value 'Product Row
99         End If
100        PicPath = FileLoc & "\" & Sheet5.Range("E" & ProdRow).Value
101        .Range("H13").Value = Sheet5.Range("A" & ProdRow).Value 'Product ID
102        .Range("E15").Value = Sheet5.Range("C" & ProdRow).Value 'Description
103        .Range("H15").Value = Sheet5.Range("D" & ProdRow).Value 'Price
104        .Range("J13").Value = Sheet5.Range("E" & ProdRow).Value 'Picture
105        .Range("E17").Value = Sheet5.Range("F" & ProdRow).Value 'Total Inv.
106
107        On Error Resume Next
108        .Shapes("ThumbPic").Delete
109        On Error GoTo 0
110        On Error Resume Next
111        With .Pictures.Insert(PicPath)
112            With .ShapeRange
113                .LockAspectRatio = msoTrue
114                .Height = 45
115                .Name = "ThumbPic"
116            End With
117        End With
118        With .Shapes("ThumbPic")
119            .Left = Sheet1.Range("J13").Left
120            .Top = Sheet1.Range("J13").Top
121            .IncrementLeft 20
122            .IncrementTop 5

```

1 2 3

```
1 2 3
123 End With
124 .Shapes("SaveProdBtn").Visible = msoFalse
125 .Shapes("UpdateProdBtn").Visible = msoCTrue
126 .Range("B12").Value = False 'Set New Product To False
127 End With 'End Sheet 1
128 End Sub
129
130 Sub Product_SaveUpdate()
131 Dim ProdRow As Long
132 With Sheet1
133 If .Range("E13").Value = Empty Then
134 MsgBox "Please add a product Name"
135 Exit Sub
136 End If
137
138 If .Range("B11").Value = Empty Then 'New Product
139 ProdRow = Sheet5.Range("A9999").End(xlUp).Row + 1
140 Sheet5.Range("B" & ProdRow).Value = .Range("E13").Value 'Add Product Name Only
141 For New Products
142 Else: 'Existing Product
143 ProdRow = .Range("B11").Value 'Existing Product Row
144 End If
145 Sheet5.Range("A" & ProdRow).Value = .Range("H13").Value 'Product ID
146 Sheet5.Range("C" & ProdRow).Value = .Range("E15").Value 'Description
147 Sheet5.Range("D" & ProdRow).Value = .Range("H15").Value 'Price
148 Sheet5.Range("E" & ProdRow).Value = .Range("J13").Value 'Image
149 Sheet5.Range("F" & ProdRow).Value = .Range("E17").Value 'Total Purchased
150 Sheet5.Range("G" & ProdRow).Value = "=SUMIFS(Orders_SaleQty,Orders_ProdNm,$B" &
151 ProdRow & ")" 'Total Sold
152 Sheet5.Range("H" & ProdRow).Value = "=F" & ProdRow & "-G" & ProdRow 'Total
153 Available
154 .Shapes("SaveProdBtn").Visible = msoFalse
155 .Shapes("UpdateProdBtn").Visible = msoCTrue
156 .Range("B12").Value = False 'Set New Product To False
157 End With
158 End Sub
```


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Thank You!

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