Program Cover Sheet

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| --- |
| Name: Nathan VanSnepson |
| Assignment: Assignment 2 |
| List any parts of the assignment that do not work/were not completed: (None) |

|  |
| --- |
| Instructor’s Comments: |
| Grade: |

Program Submission Requirements: (1) all files, zipped and uploaded to Canvas and (2) a completed cover sheet, program execution screenshots and source code printed, **stapled** and turned in during class. Failure to follow the submission requirements will result in points lost on that particular assignment.

Graphical user interface, text, application, email

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Graphical user interface, text, application

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Module modMain

'------------------------------------------------------------

'- File Name : modMain.vb -

'- Part of Project: KustomKarz -

'------------------------------------------------------------

' Written By: Nathan VanSnepson -

' Written On: January 26, 2022 -

'------------------------------------------------------------

'- File Purpose: -

'- -

'- The purpose of this file is to initialize the program -

'- by displaying the selection form. -

'------------------------------------------------------------

'- Global Variable Dictionary (alphabetically): -

'- frmKustomKarz - Instance of KustomKarz -

'------------------------------------------------------------

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Dim frmKustomKarz As KustomKarzForm

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Sub Main()

'------------------------------------------------------------

'- Subprogram Name: Main -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is start the selection -

'- form.

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- frmKustomKarz - Reference to an instance of KustomKarz- -

'- Form. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Creates a new instance of the KustomKarzForm

frmKustomKarz = New KustomKarzForm

'Displays the KustomKarzForm

frmKustomKarz.ShowDialog()

End Sub

End Module

Public Class KustomKarzForm

'------------------------------------------------------------

'- File Name : KustomKarzInvoiceForm.frm -

'- Part of Project: KustomKarz -

'------------------------------------------------------------

' Written By: Nathan VanSnepson -

' Written On: January 26, 2022 -

'------------------------------------------------------------

'- File Purpose: -

'- -

'- This file contains the logic for the KustomKarzForm to -

'- allow a buyer to select kar options then create an -

'- invoice to submit to manufacturing. -

'------------------------------------------------------------

'- Global Variable Dictionary (alphabetically): -

' -

'- blnAllowClose - Determines if the form can be closed. -

'- frmKustomKarzInvoice - an instance of KustomKarzInvoice- -

'- Form to display the invoice. -

'- udtKustomKarzSelections - structure containing all the -

'- options and pricing selected from the buyer. -

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'Constants for Car Type cost

Const COUPE = 10000

Const LUXURY = 20000

Const SEDAN = 17000

Const SPORTS\_EDITION = 25000

Const SUV = 27000

'Constants for Drive Train cost

Const V12 = 7500

Const V8 = 2500

Const V6 = 1000

Const V4 = 500

Const HYBRID = 3000

Const ELECTRIC = 6000

'Constant for cost of each option

Const COST\_PER\_OPTION = 750

'-------------------------------------------------------------------------------------------

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'Structure for holding the options and prices from buyers selection

Structure udtKustomKarzSelectionStruct

Dim strCustomerName As String

Dim strCarType As String

Dim intCarTypeCost As Integer

Dim intQuantity As Integer

Dim strDriveTrainSelect As String

Dim intDriveTrainCost As Integer

Dim arrOptions As ArrayList

Dim intCostPerOption As Integer

End Structure

'---------------------------------------------------------------------------------------

'--- GLOBAL VARIABLES --- GLOBAL VARIABLES --- GLOBAL VARIABLES --- GLOBAL VARIABLES ---

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Dim frmKustomKarzInvoice As KustomKarzInvoiceForm

Public blnAllowClose As Boolean

Public udtKustomKarzSelections As udtKustomKarzSelectionStruct

'-----------------------------------------------------------------------------------

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Public Sub New()

'------------------------------------------------------------

'- Subprogram Name: New -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is initialize the form -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- (None) -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

' This call is required by the designer.

InitializeComponent()

'Defaults to false to prevent form from closing

blnAllowClose = False

End Sub

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

'------------------------------------------------------------

'- Subprogram Name: frmMain\_Load -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to read from an emplo- -

'- yee text file and display existing Employees. If no emp- -

'- oyees exist then it displays for the user to add a new -

'- employee. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'- sender - reference to the object that raised the event -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- arrOptions - ArrayList of the options the buyer selected.-

'- intCarTypeCost - Cost of the type of car buyer selected. -

'- intDriveTrainSelection - Cost of the drive train buyer -

'- selected. -

'- strDriveTrainSelection - Name of the drive train the -

'- buyer selected. -

'------------------------------------------------------------

Dim intCarTypeCost As Integer 'Cost of the selected car type

Dim intDriveTrainSelection As Integer 'Cost of the seleted drive train

Dim strDriveTrainSelection As String 'The name of the selected drive train

Dim arrOptions = New ArrayList 'List of added options

'If statements to check for correct input from the user

If txtCustomerName.Text.Length = 0 Then

MessageBox.Show("Enter the Customers Name!")

Return

ElseIf lstCarType.SelectedIndex < 0 Then

MessageBox.Show("Select a Car Type!")

Return

ElseIf updQuantity.Value <= 0 Then

MessageBox.Show("Enter the quantity of cars you want!")

Return

End If

'Finds which car type was selected and

If lstCarType.SelectedItem.ToString = "Coupe" Then

intCarTypeCost = COUPE

ElseIf lstCarType.SelectedItem.ToString = "Luxury" Then

intCarTypeCost = LUXURY

ElseIf lstCarType.SelectedItem.ToString = "Sedan" Then

intCarTypeCost = SEDAN

ElseIf lstCarType.SelectedItem.ToString = "Sports Edition" Then

intCarTypeCost = SPORTS\_EDITION

ElseIf lstCarType.SelectedItem.ToString = "SUV" Then

intCarTypeCost = SUV

End If

'Checks gbDriveTrainSelect to find selected drive train. If none display

'to user to select one

If rbV12.Checked Then

intDriveTrainSelection = V12

strDriveTrainSelection = rbV12.Text

ElseIf rbV8.Checked Then

intDriveTrainSelection = V8

strDriveTrainSelection = rbV8.Text

ElseIf rbV6.Checked Then

intDriveTrainSelection = V6

strDriveTrainSelection = rbV6.Text

ElseIf rbV4.Checked Then

intDriveTrainSelection = V4

strDriveTrainSelection = rbV4.Text

ElseIf rbHybrid.Checked Then

intDriveTrainSelection = HYBRID

strDriveTrainSelection = rbHybrid.Text

ElseIf rbElectric.Checked Then

intDriveTrainSelection = ELECTRIC

strDriveTrainSelection = rbElectric.Text

Else

MessageBox.Show("Choose a Drive Train Selection!")

Return

End If

'If statements to add selected Options from gbOptions

'to an arrayList

If chkLeatherSeats.Checked Then

arrOptions.Add(chkLeatherSeats.Text)

End If

If chkHeatedSeats.Checked Then

arrOptions.Add(chkHeatedSeats.Text)

End If

If chkRearDefroster.Checked Then

arrOptions.Add(chkRearDefroster.Text)

End If

If chkAirConditioning.Checked Then

arrOptions.Add(chkAirConditioning.Text)

End If

If chkPremiumStereo.Checked Then

arrOptions.Add(chkPremiumStereo.Text)

End If

If chkCDMP3Connections.Checked Then

arrOptions.Add(chkCDMP3Connections.Text)

End If

If chkBluetooth.Checked Then

arrOptions.Add(chkBluetooth.Text)

End If

If chkGPS.Checked Then

arrOptions.Add(chkGPS.Text)

End If

If chkEntertainmentPackage.Checked Then

arrOptions.Add(chkEntertainmentPackage.Text)

End If

'Create a new instance of udtKustomKarzSelectionStruct Structure

udtKustomKarzSelections = New udtKustomKarzSelectionStruct

'Sets all the variables in the structure to their appropriate value

With udtKustomKarzSelections

.strCustomerName = txtCustomerName.Text

.strCarType = lstCarType.SelectedItem.ToString

.intCarTypeCost = intCarTypeCost

.intQuantity = updQuantity.Value

.strDriveTrainSelect = strDriveTrainSelection

.intDriveTrainCost = intDriveTrainSelection

.arrOptions = arrOptions

.intCostPerOption = COST\_PER\_OPTION

End With

'Create a new KustomKarzInvoiceForm

frmKustomKarzInvoice = New KustomKarzInvoiceForm(Me)

'Hide KustomKarzForm

Me.Hide()

'Display KustomKarzInvoiceForm

frmKustomKarzInvoice.ShowDialog()

End Sub

Private Sub KustomKarzForm\_FormClosing(sender As Object, e As FormClosingEventArgs) Handles MyBase.FormClosing

'------------------------------------------------------------

'- Subprogram Name: KustomKarzForm\_FormClosing -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to handle closing the -

'- form properly and prevent the buyer from closing out -

'- while KustomKarzForm is displayed. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'- sender - reference to the object that raised the event -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'If the form is not allowed to close prevent it from closing

If Not blnAllowClose Then

MessageBox.Show("Sorry but the application can only be closed on the Invoice Screeen" & vbNewLine &

"Please press Place Order to go to that screen...")

e.Cancel = True

End If

End Sub

Public Sub resetFormControls()

'------------------------------------------------------------

'- Subprogram Name: resetFormControls -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to reset all the -

'- controls to blank fields to allow a new order to be made -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'- sender - reference to the object that raised the event -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Customer Name

txtCustomerName.Text = ""

'Car Type

lstCarType.SelectedIndex = -1

'Quantity

updQuantity.Value = 0

'Drive Train Select (gbDriveTrainSelect)

rbV12.Checked = False

rbV8.Checked = False

rbV6.Checked = False

rbV4.Checked = False

rbHybrid.Checked = False

rbElectric.Checked = False

'Options (gbOptions)

chkLeatherSeats.Checked = False

chkHeatedSeats.Checked = False

chkRearDefroster.Checked = False

chkAirConditioning.Checked = False

chkPremiumStereo.Checked = False

chkCDMP3Connections.Checked = False

chkBluetooth.Checked = False

chkGPS.Checked = False

chkEntertainmentPackage.Checked = False

End Sub

End Class

Public Class KustomKarzInvoiceForm

'------------------------------------------------------------

'- File Name : KustomKarzInvoiceForm.frm -

'- Part of Project: KustomKarz -

'------------------------------------------------------------

' Written By: Nathan VanSnepson -

' Written On: January 26, 2022 -

'------------------------------------------------------------

'- File Purpose: -

'- -

'- This file contains the logic for the Invoice form. This -

'- form displays the cost breakdown for a kar order and -

'- submits the order for manufacturing or allows the kar -

'- order to be updated. -

'------------------------------------------------------------

'- Program Purpose: -

'- -

'- The purpose of this program is for a kar buyer to select -

'- kar options and then create an invoice showing the total -

'- cost of the kar manufacturing. It then can be submitted -

'- to manufacturing or the order can be updated. -

'------------------------------------------------------------

'- Global Variable Dictionary (alphabetically): -

'- blnExitClicked - True if user tries to exit the -

'- application. -

'- frmKustomKarz - Reference to an instance of KustomKarz- -

'- Form. -

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Dim blnExitClicked As Boolean

Dim frmKustomKarz

'-----------------------------------------------------------------------------------

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Public Sub New(ByRef frmKustomKarz)

'------------------------------------------------------------

'- Subprogram Name: New -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is initialize the form -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- frmKustomKarz - Reference to an instance of KustomKarz- -

'- Form. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

' This call is required by the designer.

InitializeComponent()

' Add any initialization after the InitializeComponent() call.

Me.frmKustomKarz = frmKustomKarz

'Sets boolean to true, true when user exits application

blnExitClicked = True

End Sub

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

'------------------------------------------------------------

'- Subprogram Name: btnExit\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram close the program. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Updates boolean when user exits

blnExitClicked = True

'Closes the form

Me.Close()

End Sub

Private Sub KustomKarzInvoiceForm\_FormClosing(sender As Object, e As FormClosingEventArgs) Handles MyBase.FormClosing

'------------------------------------------------------------

'- Subprogram Name: KustomKarzInvoiceForm\_FormClosing -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to update a boolean -

'- value in the referenced frmKustomKarz to allow it to -

'- close. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Prompt user if they want to quit

If blnExitClicked Then

If MessageBox.Show("Are you sure you want to quit?",

"Kustom Karz Order System",

MessageBoxButtons.YesNo) = DialogResult.No Then

'Updates to not exit the form

blnExitClicked = True

'Cancels exiting the form

e.Cancel = True

Return

End If

End If

'Closes KustomKarzForm

frmKustomKarz.blnAllowClose = True

End Sub

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

'------------------------------------------------------------

'- Subprogram Name: btnSubmitToManufacturing\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to submit the invoice -

'- to manufacturing and display a new selection form. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Resets control values to default values in frmKustomKarz

frmKustomKarz.resetFormControls()

'Closes the form without prompting user

blnExitClicked = False

'Closes the invoice form

Me.Close()

'Prevents frmKustomKarz from being closed

frmKustomKarz.blnAllowClose = False

'Displays frmKustomKarz

frmKustomKarz.show()

End Sub

Private Sub KustomKarzInvoiceForm\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

'------------------------------------------------------------

'- Subprogram Name: KustomKarzInvoiceForm\_Load -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to display the invoice.-

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- intGrandTotal - Total cost of all vehicles -

'- intOptionCostPerVehicle - Total option cost per vehicle -

'- intPerVehicleTotal - Total cost per vehicle -

'- strInvoice - String to create the invoice -

'------------------------------------------------------------

Dim strInvoice As String

Dim intPerVehicleTotal As Integer

Dim intGrandTotal As Integer

Dim intOptionCostPerVehicle As Integer

'Creating string for invoice output

strInvoice = "====================================================================================" & vbNewLine &

vbTab & vbTab & vbTab & vbTab & "Kustom Karz Order" & vbNewLine &

"====================================================================================" & vbNewLine &

"" & vbNewLine &

"Getting ready to Kustom manufacture for " & frmKustomKarz.udtKustomKarzSelections.strCustomerName & vbNewLine &

"" & vbNewLine &

"There will be " & frmKustomKarz.udtKustomKarzSelections.intQuantity & " car(s) kustom built" & vbNewLine &

"" & vbNewLine &

"Karfrom factor : " & frmKustomKarz.udtKustomKarzSelections.strCarType & " at " & FormatCurrency(frmKustomKarz.udtKustomKarzSelections.intCarTypeCost) & vbNewLine &

"" & vbNewLine &

"Selected drive train : " & frmKustomKarz.udtKustomKarzSelections.strDriveTrainSelect & " at " & FormatCurrency(frmKustomKarz.udtKustomKarzSelections.intDriveTrainCost) & vbNewLine &

"" & vbNewLine &

"Here are the options requested:" & vbNewLine

'Loopts through arrOptions to add all the options the buyer selected

For Each strOption In frmKustomKarz.udtKustomKarzSelections.arrOptions

strInvoice += vbTab & strOption & vbNewLine

Next

'If the buyer selected options find the total cost of them,

'else set the options cost to 0

If frmKustomKarz.udtKustomKarzSelections.arrOptions.Count > 0 Then

intOptionCostPerVehicle = frmKustomKarz.udtKustomKarzSelections.arrOptions.Count \* frmKustomKarz.udtKustomKarzSelections.intCostPerOption

Else

intOptionCostPerVehicle = 0

End If

'Sets the total cost per vehicle

intPerVehicleTotal = frmKustomKarz.udtKustomKarzSelections.intCarTypeCost + intOptionCostPerVehicle + frmKustomKarz.udtKustomKarzSelections.intDriveTrainCost

'Sets the grand total of all the cars

intGrandTotal = intPerVehicleTotal \* frmKustomKarz.udtKustomKarzSelections.intQuantity

strInvoice += frmKustomKarz.udtKustomKarzSelections.arrOptions.Count & " Options Selected for a total of " + FormatCurrency(intOptionCostPerVehicle) & vbNewLine

strInvoice += "" & vbNewLine &

"" & vbNewLine &

"Per vehicle total: " & vbTab & vbTab & FormatCurrency(intPerVehicleTotal) & vbNewLine &

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" & vbNewLine &

"Quantity Ordered: " & vbTab & vbTab & frmKustomKarz.udtKustomKarzSelections.intQuantity & vbNewLine &

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" & vbNewLine &

"Grand Total: " & vbTab & vbTab & FormatCurrency(intGrandTotal) & vbNewLine &

"" & vbNewLine &

"===================================================================================="

'Sets the textbox to display the invoice

txtDisplayInvoice.Text = strInvoice

End Sub

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

'------------------------------------------------------------

'- Subprogram Name: btnChangeOrder\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: January 26, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to allow go to the -

'- selection form to update the order. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'- sender - reference to the object that raised the event -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'------------------------------------------------------------

'Closes the form without prompting user

blnExitClicked = False

'Closes the invoice form

Me.Close()

'Prevents selection form from being closed

frmKustomKarz.blnAllowClose = False

'Displays the selection form

frmKustomKarz.show()

End Sub

End Class