BASE CLASS

Define the Properties

Public Class baseClass
    Private stockNumber As String
    Private movieTitle As String
    Private rating As String
    Private retailPrice As Decimal
    Private stockOnHand As Integer
    Private stockOnOrder As Integer
    Private stockOnOrder As Integer
    Private stockOnHand As Integer
End Class

Add the Accessor Methods

    Property movieID() As String
        Get
            Return stockNumber
        End Get
        Set(ByVal Value As String)
            If Len(Value) > 0 Then
                stockNumber = Value
            End If
        End Set
    End Property

    Property title() As String
        Get
            Return movieTitle
        End Get
        Set(ByVal Value As String)
            If Len(Value) > 0 Then
                movieTitle = Value
            End If
        End Set
    End Property

    Property viewingRating() As String
        Get
            Return rating
        End Get
        Set(ByVal Value As String)
            If Len(Value) > 0 Then
                rating = Value
            End If
        End Set
    End Property
Property price() As Decimal
    Get
        Return retailPrice
    End Get
    Set(ByVal Value As Decimal)
        If Value >= 0 Then
            retailPrice = Value
        End If
    End Set
End Property
'
Property onHandCount() As Integer
    Get
        Return stockOnHand
    End Get
    Set(ByVal Value As Integer)
        If Value >= 0 Then
            stockOnHand = Value
        End If
    End Set
End Property
'
Property onOrderCount() As Integer
    Get
        Return stockOnOrder
    End Get
    Set(ByVal Value As Integer)
        If Value >= 0 Then
            stockOnOrder = Value
        End If
    End Set
End Property
'
Property receivedDate() As Date
    Get
        Return lastReceivedDate
    End Get
    Set(ByVal Value As Date)
        lastReceivedDate = Value
    End Set
End Property
Add the Constructors

Public Sub New(ByVal movieID As String, ByVal title As String, _
ByVal viewingrating As String, ByVal price As Decimal, _
ByVal onhandcount As Integer, ByVal onordercount As Integer, _
ByVal receiveddate As Date)
    Me.movieID = movieID
    Me.title = title
    Me.viewingRating = viewingrating
    Me.price = price
    Me.onHandCount = onhandcount
    Me.onOrderCount = onordercount
    Me.receivedDate = receiveddate
    AddTotals()
End Sub

DERIVED CLASS

Action Class Example

Public Class actionClass
    Inherits baseClass

    Public Sub New(ByVal movieID As String, ByVal title As String, _
                    ByVal viewingrating As String, ByVal price As Decimal, _
                    ByVal onhandcount As Integer, ByVal onordercount As Integer, _
                    ByVal receiveddate As Date)
        MyBase.new(movieID, title, viewingrating, price, _
                   onhandcount, onordercount, receiveddate)
    End Sub

End Class
FORM

Define the Objects

Public Class Form1
    Inherits System.Windows.Forms.Form
    Private anActionMovie As actionClass
    Private anAnimatedMovie As animatedClass
    Private aComedyMovie As comedyClass
    Private aDramaMovie As dramaClass
    Private aMusicalMovie As musicalClass
    Private aRomanceMovie As romanceClass
    Private aSciFiMovie As sciFiClass
    Private aWarMovie As warClass

Commit Button Click Event

Private Sub commitButton_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles commitButton.Click
    Label7.Text = RatingComboBox.SelectedItem
    If actionRadioButton.Checked Then
        Try
            anActionMovie = New actionClass(stockNumberTextBox.Text, _
                movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
                Decimal.Parse(priceTextBox.Text), 0, 0, Today)
            actionCount += 1
        Catch ex As Exception
        End Try
    ElseIf animatedRadioButton.Checked Then
        Try
            anAnimatedMovie = New animatedClass(stockNumberTextBox.Text, _
                movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
                Decimal.Parse(priceTextBox.Text), 0, 0, Today)
            animatedCount += 1
        Catch ex As Exception
        End Try
    ElseIf dramaRadioButton.Checked Then
        Try
            aDramaMovie = New dramaClass(stockNumberTextBox.Text, _
                movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
                Decimal.Parse(priceTextBox.Text), 0, 0, Today)
            dramaCount += 1
        Catch ex As Exception
        End Try
    ElseIf comedyRadioButton.Checked Then
        Try
            aComedyMovie = New comedyClass(stockNumberTextBox.Text, _
                movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
                Decimal.Parse(priceTextBox.Text), 0, 0, Today)
            comedyCount += 1
        Catch ex As Exception
        End Try
    End If
End Sub
Try
   aComedyMovie = New comedyClass(stockNumberTextBox.Text, _
   movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
   Decimal.Parse(priceTextBox.Text), 0, 0, Today)
   comedyCount += 1
Catch ex As Exception
End Try
ElseIf musicalRadioButton.Checked Then
   Try
      aMusicalMovie = New musicalClass(stockNumberTextBox.Text, _
      movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
      Decimal.Parse(priceTextBox.Text), 0, 0, Today)
      musicalCount += 1
Catch ex As Exception
End Try
ElseIf romanceRadioButton.Checked Then
   Try
      aRomanceMovie = New romanceClass(stockNumberTextBox.Text, _
      movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
      Decimal.Parse(priceTextBox.Text), 0, 0, Today)
      romanceCount += 1
Catch ex As Exception
End Try
ElseIf sciFiRadioButton.Checked Then
   Try
      aSciFiMovie = New sciFiClass(stockNumberTextBox.Text, _
      movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
      Decimal.Parse(priceTextBox.Text), 0, 0, Today)
      sciFiCount += 1
Catch ex As Exception
End Try
ElseIf warRadioButton.Checked Then
   Try
      aWarMovie = New warClass(stockNumberTextBox.Text, _
      movieTitleTextBox.Text, RatingComboBox.SelectedItem, _
      Decimal.Parse(priceTextBox.Text), 0, 0, Today)
      warCount += 1
Catch ex As Exception
End Try
Else
   MessageBox.Show("Select a movie category", "Entry Error", _
   MessageBoxButtons.OK, MessageBoxIcon.Error)
End If
End Sub
BASE CLASS

Shared Variables

Private Shared totalStockonHand, totalStockonOrder As Integer

Property Procedures

Shared ReadOnly Property TotalOnHand()
    Get
        Return totalStockonHand
    End Get
End Property
'
Shared ReadOnly Property TotalOnOrder()
    Get
        Return totalStockonOrder
    End Get
End Property
'

Add Counts Procedure

Private Sub AddTotals()
    totalStockonHand += 1
    totalStockonOrder += 1
End Sub
Private Sub categoryListBox_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles categoryListBox.SelectedIndexChanged
    Select Case categoryListBox.SelectedIndex
        Case 0
            onHandLabel.Text = actionCount.ToString
        Case 1
            onHandLabel.Text = animatedCount.ToString
        Case 2
            onHandLabel.Text = comedyCount.ToString
        Case 3
            onHandLabel.Text = dramaCount.ToString
        Case 4
            onHandLabel.Text = musicalCount.ToString
        Case 5
            onHandLabel.Text = romanceCount.ToString
        Case 6
            onHandLabel.Text = sciFiCount.ToString
        Case 7
            onHandLabel.Text = warCount.ToString
    End Select
End Sub
Dim actionCount, animatedCount, comedyCount, dramaCount, _
musicalCount, romanceCount, sciFiCount, warCount As Integer

Dim actionOrderCount, animatedOrderCount, comedyOrderCount, _
dramaOrderCount, musicalOrderCount, romanceOrderCount, _
sciFiOrderCount, warOrderCount As Integer