```vb
1  Imports System.Collections.Generic
2  Imports System.Net.Mail
3  Imports Grasshopper.Kernel
4  Imports Rhino.Geometry
5  Imports Microsoft.Office.Interop
6  Imports MailManagerLib
7  Imports System.IO
8  Imports System.ComponentModel
9  Imports System.Diagnostics
10 Imports System.Linq
11 Imports System.Reflection
12 Imports System.Runtime.InteropServices
13 Imports Outlook = Microsoft.Office.Interop.Outlook
14 Imports Grasshopper.Kernel.GH_Document
15 Imports UsageDataCollection
16
17
18
19 Public Class EmailNotification
20     Inherits GH_Component
21     ''' <summary>
22     ''' Initializes a new instance of the EmailNotification class.
23     ''' </summary>
24     Public Sub New()
25         MyBase.New("Email", "Email", _
26                     "Send Email Notification", _
27                     "GsaComTools", "Misc")
28     End Sub
29
30     ''' <summary>
31     ''' Registers all the input parameters for this component.
32     ''' </summary>
33     Protected Overrides Sub RegisterInputParams(pManager As                   ⮡
        GH_Component.GH_InputParamManager)
34         pManager.AddGenericParameter("Input", "Input", "Sends email when value⮡
            is not null", GH_ParamAccess.tree)
35         pManager.AddTextParameter("Address", "Address", "Email Address",       ⮡
            GH_ParamAccess.item)
36         pManager.AddTextParameter("Notification", "Notification", "Message to  ⮡
            send in email (Optional)", GH_ParamAccess.item)
37
38         pManager(2).Optional = True
39
40     End Sub
41
42     ''' <summary>
43     ''' Registers all the output parameters for this component.
44     ''' </summary>
45     Protected Overrides Sub RegisterOutputParams(pManager As                  ⮡
        GH_Component.GH_OutputParamManager)
46         pManager.AddGenericParameter("Output", "Output", "'Input' data is      ⮡
            replicated here, so you can put this component in series with        ⮡
            subsequent components.", GH_ParamAccess.tree)
47     End Sub
48
49     ''' <summary>
```

```vb
50          ''' This is the method that actually does the work.
51          ''' </summary>
52          ''' <param name="DA">The DA object is used to retrieve from inputs and
              store in outputs.</param>
53          Protected Overrides Sub SolveInstance(DA As IGH_DataAccess)
54
55              Dim Input As New Data.GH_Structure(Of
                  Grasshopper.Kernel.Types.IGH_Goo)
56              Dim EmailAddress As String
57              Dim Notification As String
58              Dim OutlookOpen As Boolean = False
59              Dim Retry As Boolean = True
60              Dim myRhinoDocument As String = Rhino.RhinoDoc.ActiveDoc.Name
61              Dim doc As GH_Document = OnPingDocument()
62              Dim GHname As String
63              Dim GHpath As String
64              Dim myDataCollector As New DataCollector
65
66              If (doc IsNot Nothing) Then
67                  GHname = doc.DisplayName
68                  GHpath = doc.FilePath
69              End If
70
71
72
73              'Import GSA File Name
74              If (Not DA.GetDataTree(0, Input)) Then Return
75              If (Not DA.GetData(1, EmailAddress)) Then Return
76              If (Not DA.GetData(2, Notification)) Then Notification = ""
77
78              'Set message body
79              If Notification <> "" Then Notification = "Additional detail: " &
                  Notification
80
81              Dim Mail As New MailMessage
82              Mail.Subject = "Grasshopper Script Notification"
83              Mail.To.Add(EmailAddress)
84              Mail.From = New MailAddress("GrasshopperNotifications@arup.com")
85              Mail.Body = "Grasshopper script notification from machine '" &
                  My.Computer.Name & "'.  " & vbCrLf & vbCrLf & "Rhino File: " &
                  myRhinoDocument _
86                  & vbCrLf & "Grasshopper File: " & GHname & vbCrLf & vbCrLf &
                      Notification
87
88              Dim smtp As New SmtpClient("smtp.arup.com")
89              smtp.EnableSsl = False
90              smtp.UseDefaultCredentials = True
91              smtp.Port = 25
92              smtp.Send(Mail)
93
94              'Send Usage Data
95              myDataCollector.UsageStatistics("EmailNotification")
96
97              DA.SetDataTree(0, Input)
98          End Sub
99
```

```vb
100        ''' <summary>
101        ''' Provides an Icon for every component that will be visible in the User ⮡
             Interface.
102        ''' Icons need to be 24x24 pixels.
103        ''' </summary>
104        Protected Overrides ReadOnly Property Icon() As System.Drawing.Bitmap
105            Get
106                'You can add image files to your project resources and access them ⮡
                     like this:
107                Return My.Resources.Misc_EmailNotification
108                Return Nothing
109            End Get
110        End Property
111
112        ''' <summary>
113        ''' Gets the unique ID for this component. Do not change this ID after    ⮡
             release.
114        ''' </summary>
115        Public Overrides ReadOnly Property ComponentGuid() As Guid
116            Get
117                Return New Guid("{2a26ea1d-73d8-4c92-9930-86015132d637}")
118            End Get
119        End Property
120 End Class
```