

CONTROLS

A Control is a type of user interface element we create on a Visual Basic Form available in Toolbox. Every Visual Basic control consists of three important elements:

Properties which describe the control,

Methods cause a control to do something and

Events are what happens when a control does something.

Toolbox

- > All Windows Forms
- > Common Controls
- > Containers
- > Menus & Toolbars
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CONTROL PROPERTIES

All the Visual Basic Controls can be moved, resized or customized by setting their properties. A property is a value or characteristic held by a Visual Basic control, such as Caption or Fore Colour. Properties can be set at design time by using the Properties window or at run time by using statements in the program code like :

CONTROL.PROPERTY=VALUE

Where Control is the name of the control we want to customize.

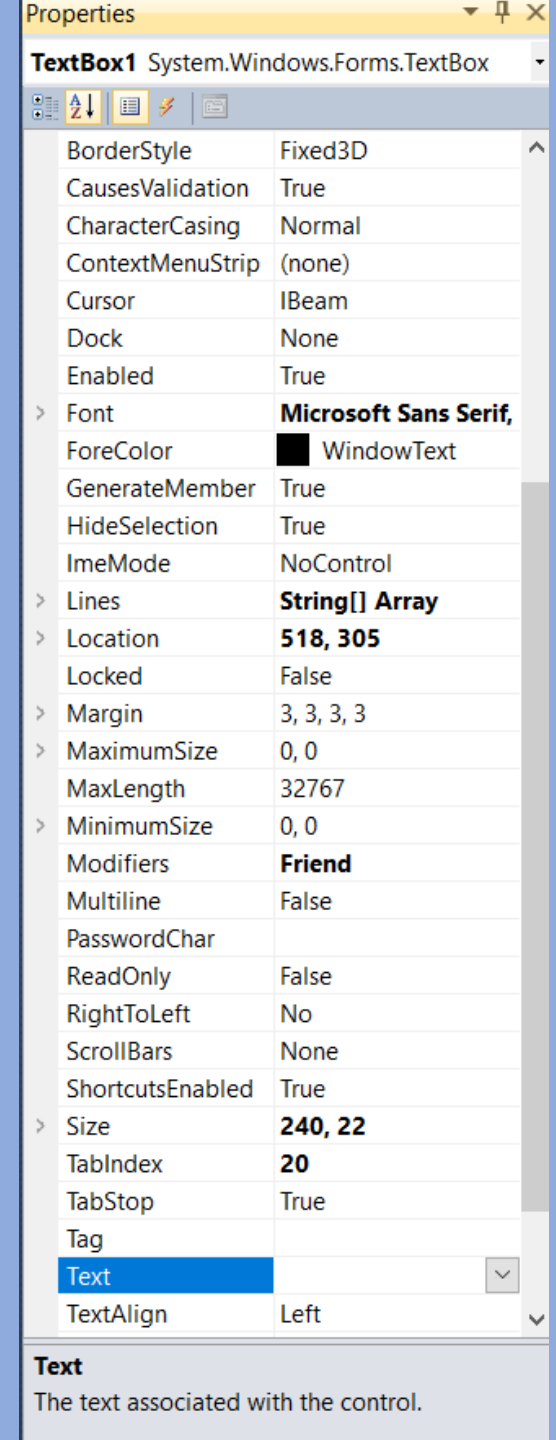
Property is the characteristic we want to change.

Value is the new property setting.

For Example, TextBox1.Text="AKASH"

We can set any of the control properties using Properties Window.

Most of the properties can be set or read during application execution as well.



CONTROL METHODS

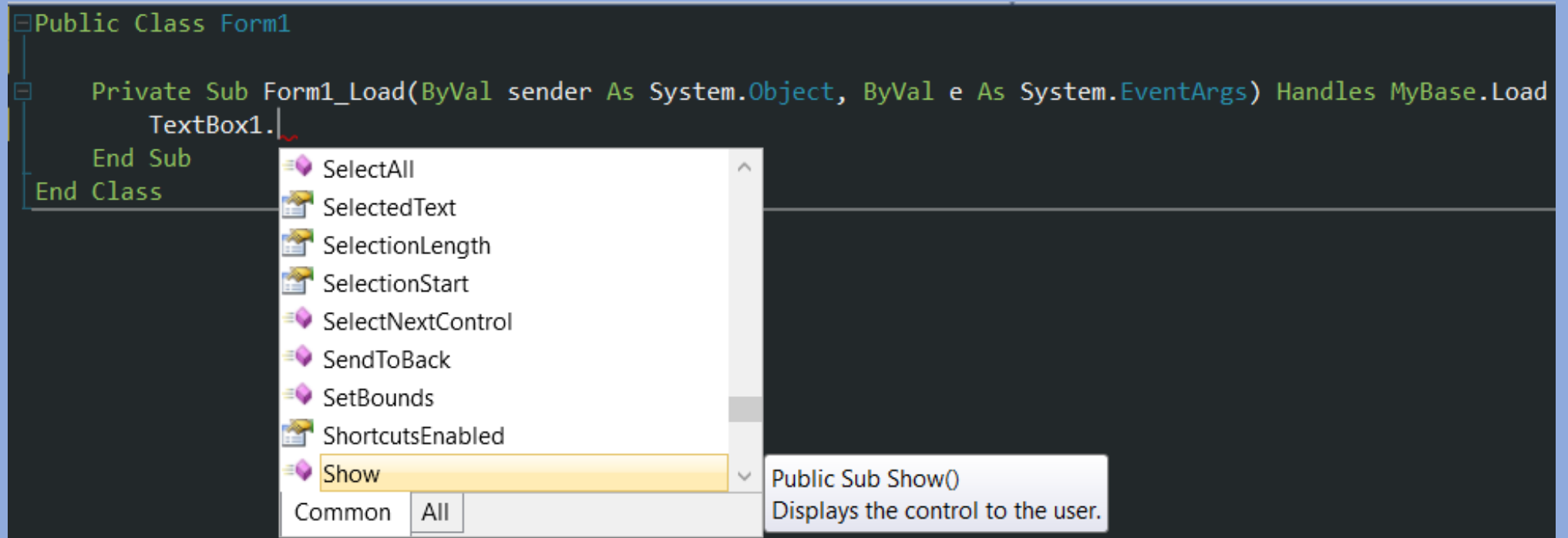
A method is a procedure created as a member of a class that can be used by controls to execute some events or assign property values during run time. Methods can be also used to access or manipulate the characteristics of a control.

For example, the TextBox control has a method named Show, which is called in the code snippet below:

Private Sub Form1_Load(ByVal sender As Object, ByVal e As EventArgs) Handles MyBase.Load

TextBox1.Show()

End Sub



CONTROL EVENTS

An event is a signal that informs the application that something has occurred. For example, when a user clicks a control on a form, the form can raise a Click event and call a procedure that handles the event. There are various types of events associated with a Form like click, double click, close, load, resize, etc.

For Example,

Private Sub Button2_Click(ByVal sender As Object, ByVal e As EventArgs) Handles Button2.Click

```
    ComboBox1.Text = ""
```

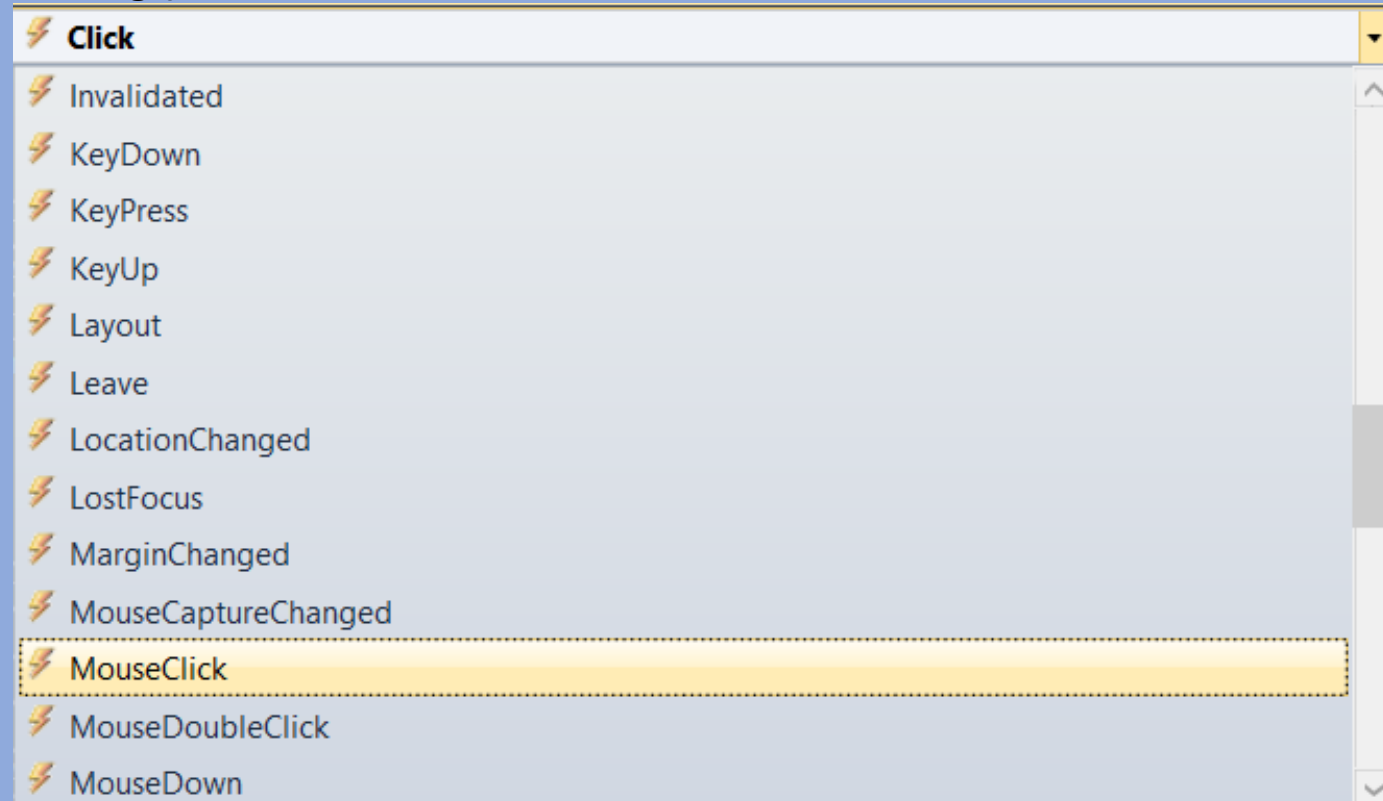
```
    ComboBox2.Text = ""
```

```
    MonthCalendar1.SelectionStart = Now.Date
```

End Sub

Here, **Handles Button2.Click** indicates that **Button2_Click()** subroutine handles **Click** event.

The name of the event handler can be changed based on our naming convention we use in your application programming.



SPECIFIC CONTROLS

VB.NET provides a huge variety of controls that help us to create rich user interface.

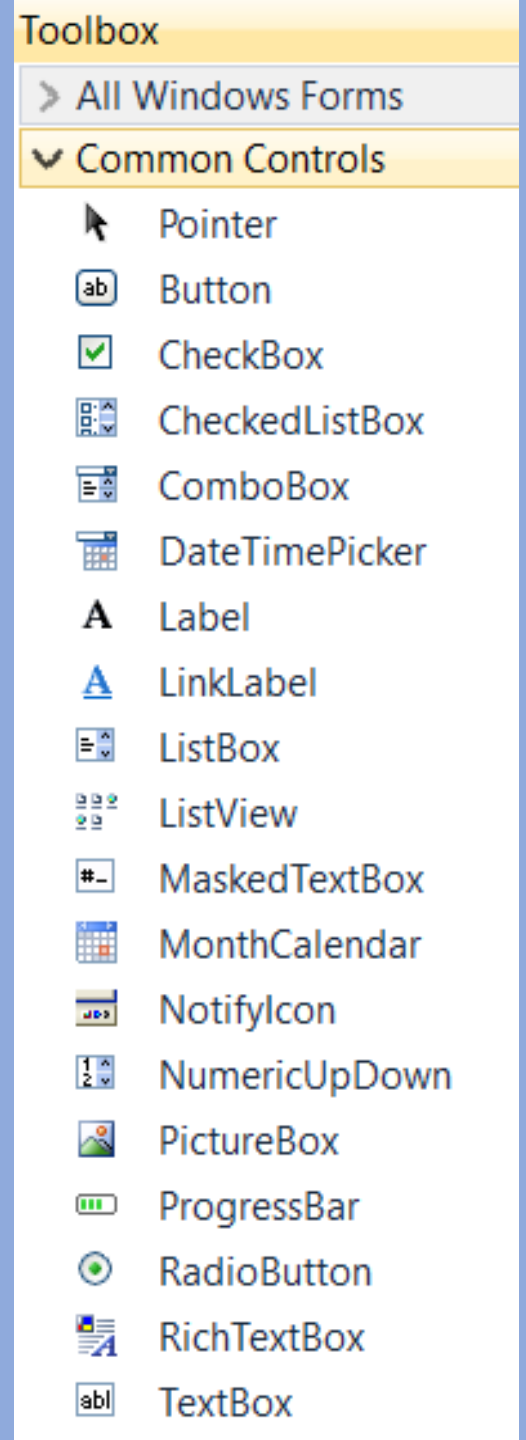
Functionalities of all these controls are defined in the respective control classes.

The control classes are defined in the **System.Windows.Forms** namespace.

The following lists some of the specific controls :

1. TextBox
2. ComboBox
3. Button
4. RadioButton
5. DataGrid
6. CheckBox
7. HScrollBar and VScrollBar

We can create above controls by dragging that control from the Toolbox and dropping it on the form.



TextBox Control

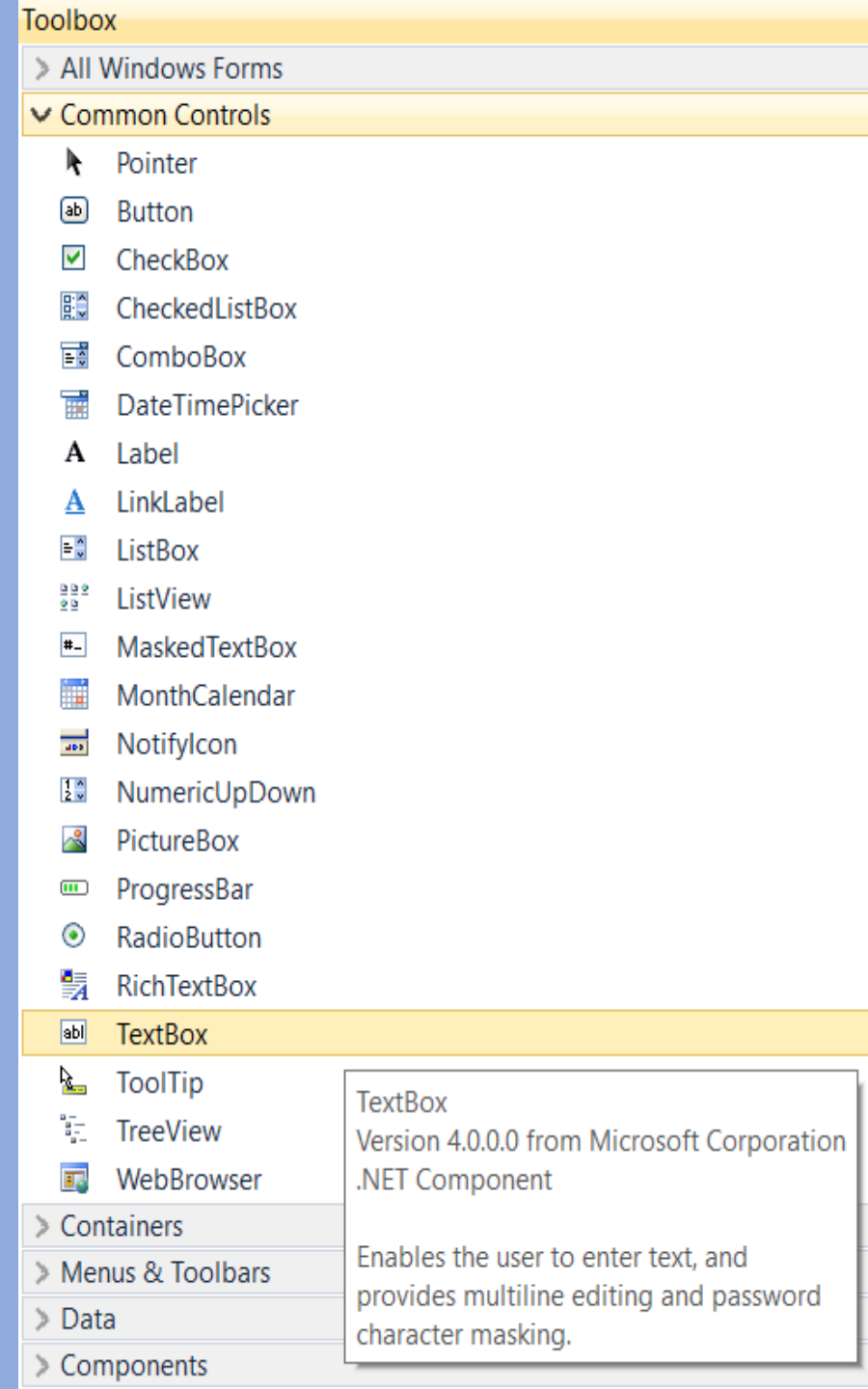
Text box control allow entering text on a form at runtime. By default, it takes a single line of text, however, we can make it accept multiline texts and even add scroll bars to it.

Properties Used

Font	Gets or sets the font of the text displayed by the control.
PasswordChar	Gets or sets the character used to mask characters of a password in a single-line TextBox control.
SelectionStart	Gets or sets the starting point of text selected in the TextBox.
Text	Gets or sets the current text in the TextBox.
TextLength	Gets the length of text in the control.
TabIndex	Gets or sets the tab order of the control within its container.

Methods Used

Clear	Clears all text from the text box control.
Select	Selects a range of text in the text box.



TextBox Control

Events Used

- **TextChanged**

Occurs when the text property value changes.

For Example,

```
Private Sub TextBox1_TextChanged(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
TextBox1.TextChanged
```

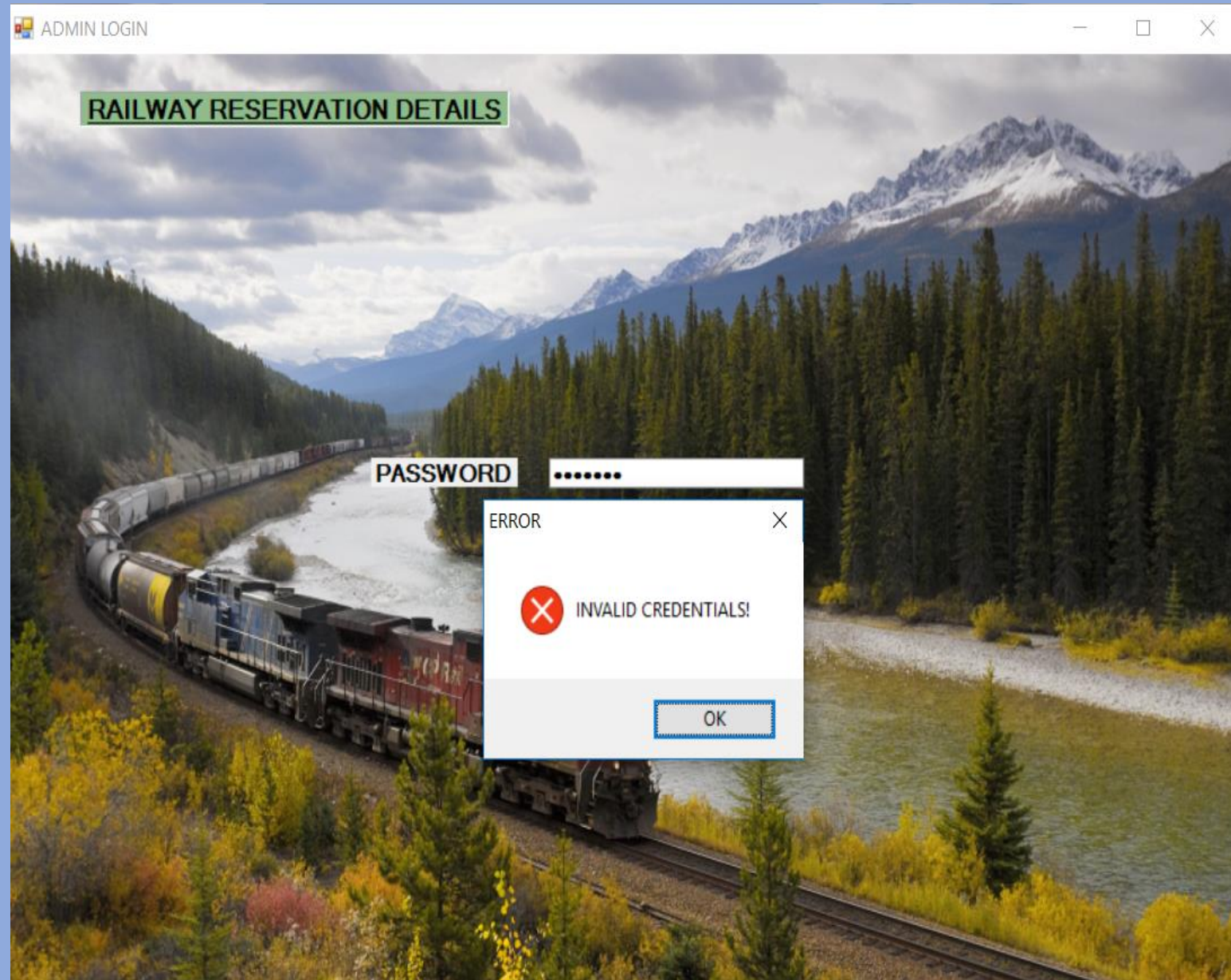
```
If Not TextBox1.Text = "●●●●●●●●" And  
TextBox1.TextLength > 6 Then
```

```
    MsgBox("INVALID CREDENTIALS!",  
    MsgBoxStyle.Critical, "ERROR")
```

```
    TextBox1.Clear()
```

```
End If
```

```
End Sub
```



TextBox Control

Another Example,

```
Dim allowed As String = ("abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ")
```

```
For Each c As Char In TextBox1.Text
```

```
    If allowed.Contains(c) = False Then
```

```
        MsgBox("Enter Passenger name without Special Characters  
and Numbers", MsgBoxStyle.Critical, "INVALID ENTRY")
```

```
        TextBox1.Text = TextBox1.Text.Remove(TextBox1.SelectionStart  
- 1, 1)
```

```
        TextBox1.Select(TextBox1.Text.Count, 0)
```

```
    End If
```

```
Next
```

The screenshot shows a Windows application window titled "PASSENGER DETAILS" with a background image of a train. The form contains the following fields and values:

- TRAIN: Chennai Central-Coimbatore Shatabdi Expre 12243
- JOURNEY DATE: 2-10-17
- BASE FARE: 594/- Rs.
- FROM: CHENNAI CENTRAL
- TO: COIMBATORE JN
- QUOTA: GENERAL
- DEPARTURE TIME: 7:15
- ARRIVAL TIME: 14:55
- CLASS: Sleeper Class
- SEATS AVAILABLE: CURR AVBL : 100
- NO. OF PASSENGERS: 1

Below these fields is a table with columns: SL. NO., NAME, AGE, GENDER, BERTH PREFERENCE, NATIONALITY, and CHARGED AS. The first row has the name "AKASH." in the NAME column.

An "INVALID ENTRY" error dialog box is displayed over the table. The message reads: "Enter Passenger name without Special Characters and Numbers". The dialog has an "OK" button.

At the bottom of the application window, there are four buttons: "Book Now", "Reset", "Return", and "Cancel".

TextBox Control

Events Used

- Leave

Occurs when the input focus leaves the control.

For Example,

Private Sub TextBox1_Leave(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox1.Leave

 If TextBox1.TextLength < 3 Then

 TextBox1.Clear()

 Button1.Hide()

 MsgBox("Name length should be between 3 and 15",
 MsgBoxStyle.Exclamation, "PASSENGER DETAILS")

 End If

End Sub

The screenshot displays a Windows application window titled "PASSENGER DETAILS". The background is a scenic image of a train on tracks. The form contains the following fields and controls:

- TRAIN:** Chennai Central-Coimbatore Shatabdi Expre 12243
- JOURNEY DATE:** 1-10-17
- BASE FARE:** 594/- Rs.
- FROM:** CHENNAI CENTRAL
- TO:** COIMBATORE JN
- QUOTA:** GENERAL
- DEPARTURE TIME:** 7:15
- ARRIVAL TIME:** 14:55
- CLASS:** Sleeper Class (dropdown menu)
- SEATS AVAILABLE:** CURR AVBL : 100
- NO. OF PASSENGERS:** 2 (spinner control)

Below these fields is a table for passenger details:

SL. NO.	NAME	AGE	GENDER	BERTH PREFERENCE	NATIONALITY	CHARGED AS
1	AKS	20				ADULT (FULL FARE)
2						

A modal error message box is displayed over the table, titled "PASSENGER DETAILS". It contains a yellow warning icon and the text: "Name length should be between 3 and 15". An "OK" button is at the bottom of the message box.

At the bottom of the main window, there are three buttons: "Reset", "Return", and "Cancel".

TextBox Control

Other Methods

AppendText	Appends text to the current text of the textbox.
Copy	Copies the current selection in the textbox to the clipboard.
Undo	Undoes the last edit operation in the textbox.

Other Events

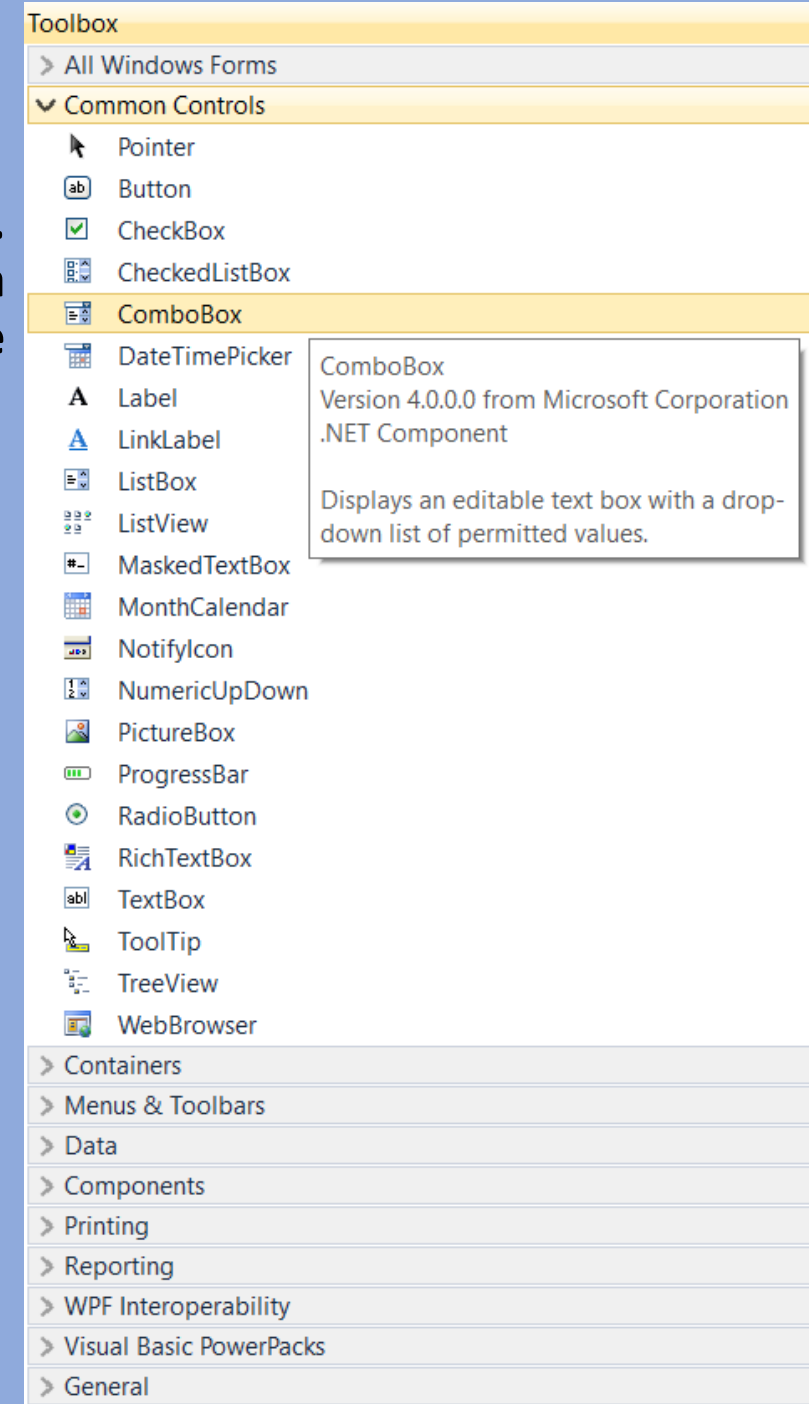
KeyPress	Occurs when a key is pressed while the textbox has focus.
GotFocus	Occurs when the control receives focus.
MultilineChanged	Occurs when the value of the MultiLine property has changed.

ComboBox Control

The ComboBox control is used to display a drop-down list of various items. It is a combination of a text box in which the user can enter an item and a drop-down list from which the user can select an item. We can populate the ComboBox Items either from the properties window or at runtime.

Properties Used

AutoCompleteMode	Gets or sets an option that controls how automatic completion works for the ComboBox.
AutoCompleteSource	Gets or sets a value specifying the source of complete strings used for automatic completion.
DropDownStyle	Gets or sets a value specifying the style of the ComboBox.
Items	Gets an object representing the collection of the items contained in this ComboBox.
SelectedItem	Gets or sets currently selected item in the ComboBox.
SelectedIndex	Gets or sets the index specifying the currently selected item.
Enabled	Gets or sets a value indicating whether the control can response to user interaction.



ComboBox Control

Event Used

- **SelectedIndexChanged**

Occurs when the **SelectedIndex** property has changed.

For Example,

Private Sub ComboBox6_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ComboBox6.SelectedIndexChanged

 If ComboBox6.SelectedItem = "No Berth" Then

 TextBox6.Text = "CHILD (HALF THE ADULT FARE)"

 End If

End Sub

The screenshot shows a 'PASSENGER DETAILS' form with the following fields and values:

- TRAIN:** Chennai Central-Coimbatore Shatabdi Expre 12243
- JOURNEY DATE:** 2-10-17
- BASE FARE:** 594/- Rs.
- FROM:** CHENNAI CENTRAL
- TO:** COIMBATORE JN
- QUOTA:** GENERAL
- DEPARTURE TIME:** 7:15
- ARRIVAL TIME:** 14:55
- CLASS:** Sleeper Class
- SEATS AVAILABLE:** CURR AVBL : 100
- NO. OF PASSENGERS:** 1

SL. NO.	NAME	AGE	GENDER	BERTH PREFERENCE	NATIONALITY	CHARGED AS
1	AKASH	10	MALE	No Berth	India	CHILD (HALF THE ADULT FARE)

At the bottom of the form, there are four buttons: **Book Now**, **Reset**, **Return**, and **Cancel**.

ComboBox Control

Other Methods

Focus	Sets input focus to the combo box.
Contains	Retrieves a value indicating whether the specified control is the child of the combo box.
FindString	Finds the first item in the combo box that starts with the specified string.
GetItemText	Returns the text representation of the specified item in the combo box.
Update	Causes the combo box to redraw the invalidated regions within its client area.

Other Events

DropDown	Occurs when the drop down portion of the combo box is shown.
Enter	Occurs when the combo box is entered.
VisibleChanged	Occurs when the value of the visible property changes.
MouseDoubleClick	Occurs when the combo box is double clicked by the mouse.

Button Control

The Button control represents a standard Windows button. It is generally used to generate a Click event by providing a handler for the Click event.

Properties Used

AutoSizeMode	Gets or sets mode by which the Button automatically resizes itself.
BackColor	Gets or sets the background colour of the button.
BackgroundImage	Gets or sets the background image displayed in the button.
Text	Gets or sets the text associated with the button.
FlatStyle	Determines the appearance of the button when the user moves the mouse over the button and clicks.

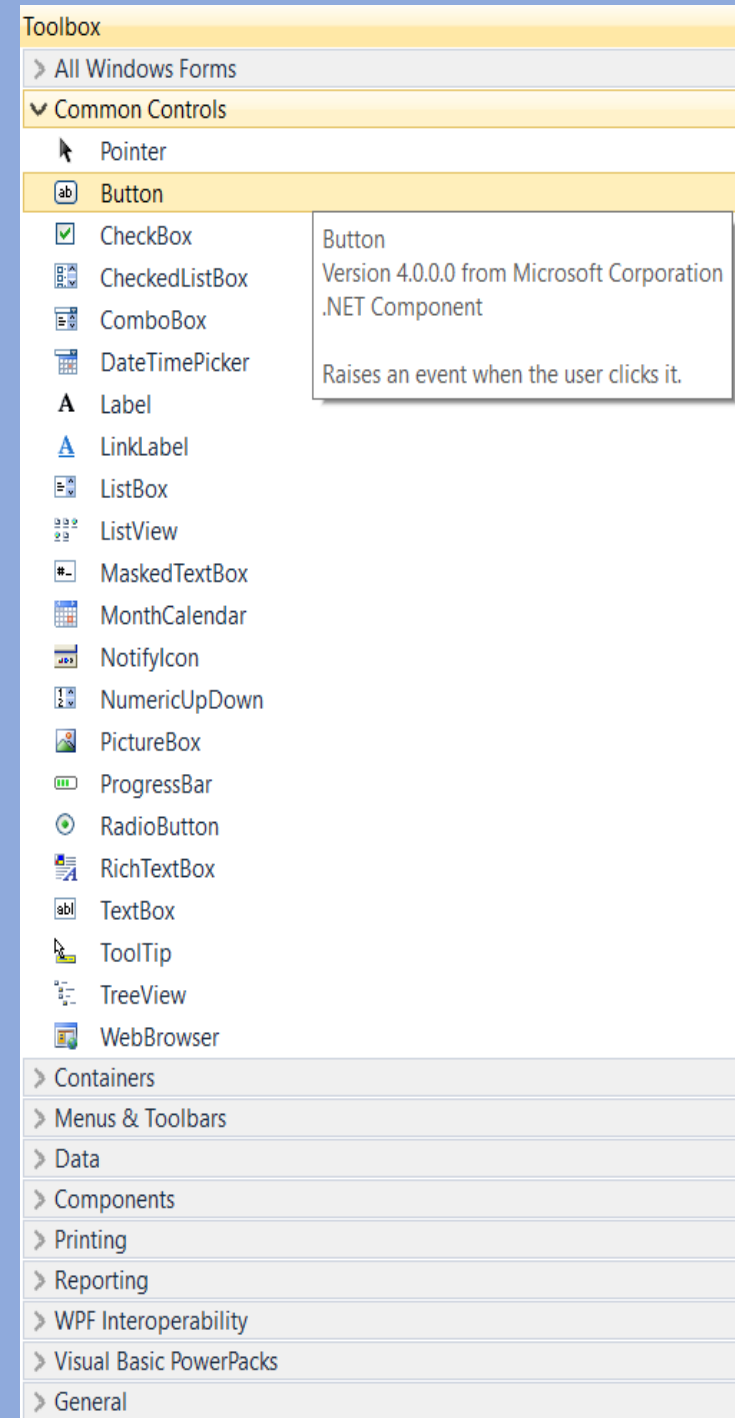
Methods Used

Show	Displays the button to the user.
Hide	Conceals the button from the user.

Event Used

- Click

Occurs when the button is clicked.



Button Control

For Example,

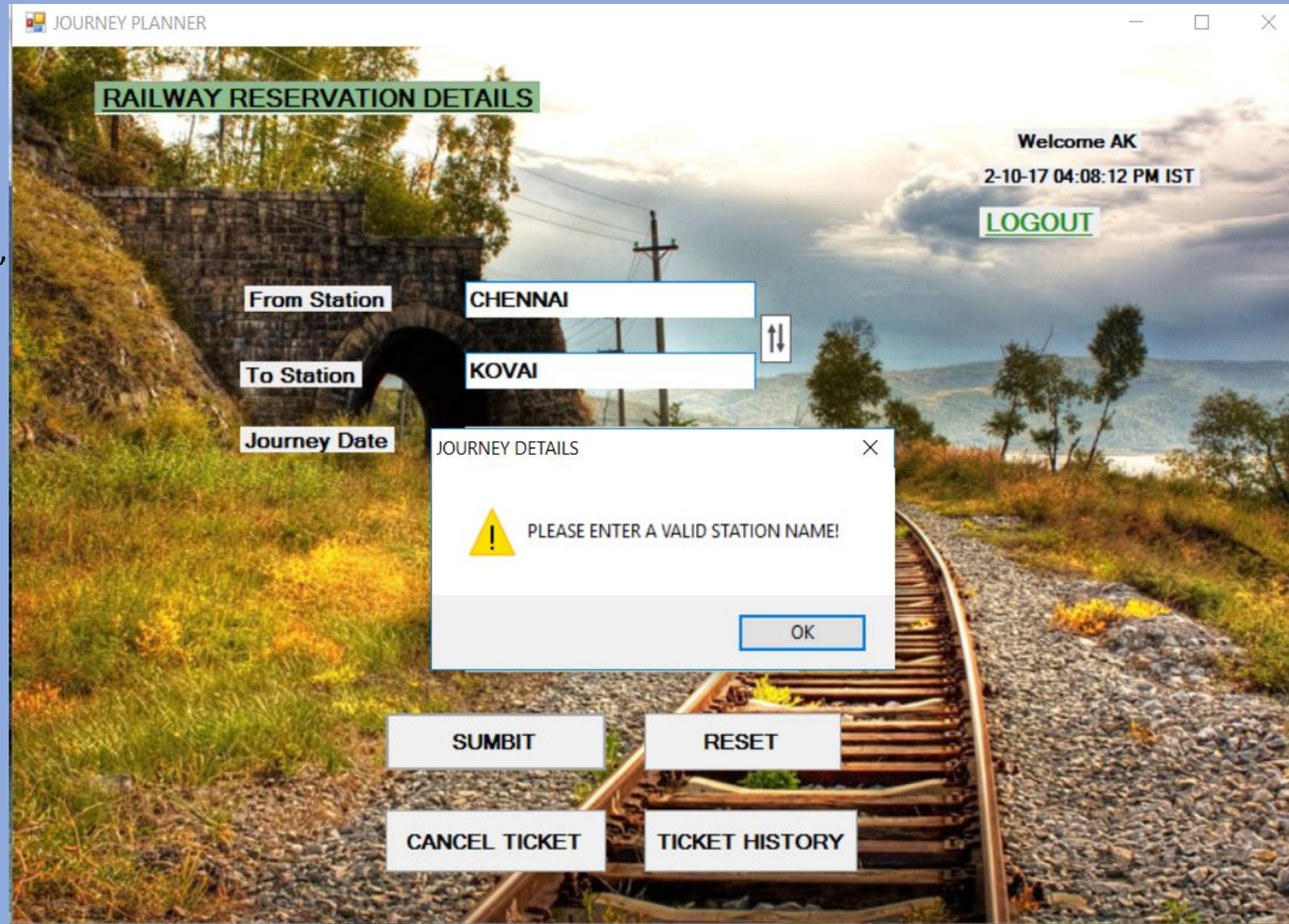
Private Sub Button1_Click(ByVal sender As Object, ByVal e As EventArgs) Handles Button1.Click

 If ComboBox1.SelectedItem = "" OrElse
 ComboBox2.SelectedItem = "" Then

 MsgBox("PLEASE ENTER A VALID STATION NAME!",
 MsgBoxStyle.Exclamation, "JOURNEY DETAILS")

 End If

End Sub



Button Control

Other Methods

PerformClick	Generates a click event for the button.
ResetText	Resets the text property to its default value.
SelectNextControl	Activates the next control.

Other Events

LocationChanged	Occurs when the location property value has changed.
MouseEnter	Occurs when the mouse pointer enters the button.
Resize	Occurs when the button is resized.
BackColorChanged	Occurs when the value of the BackColor property changes.

RadioButton Control

The RadioButton control is used to provide a set of mutually exclusive options. The user can select only one radio button in a group.

Properties Used

AutoCheck	Causes the radio button to automatically change state when clicked.
Checked	Gets or sets a value indicating whether the radio button is checked.
Text	Gets or sets the caption for a radio button.

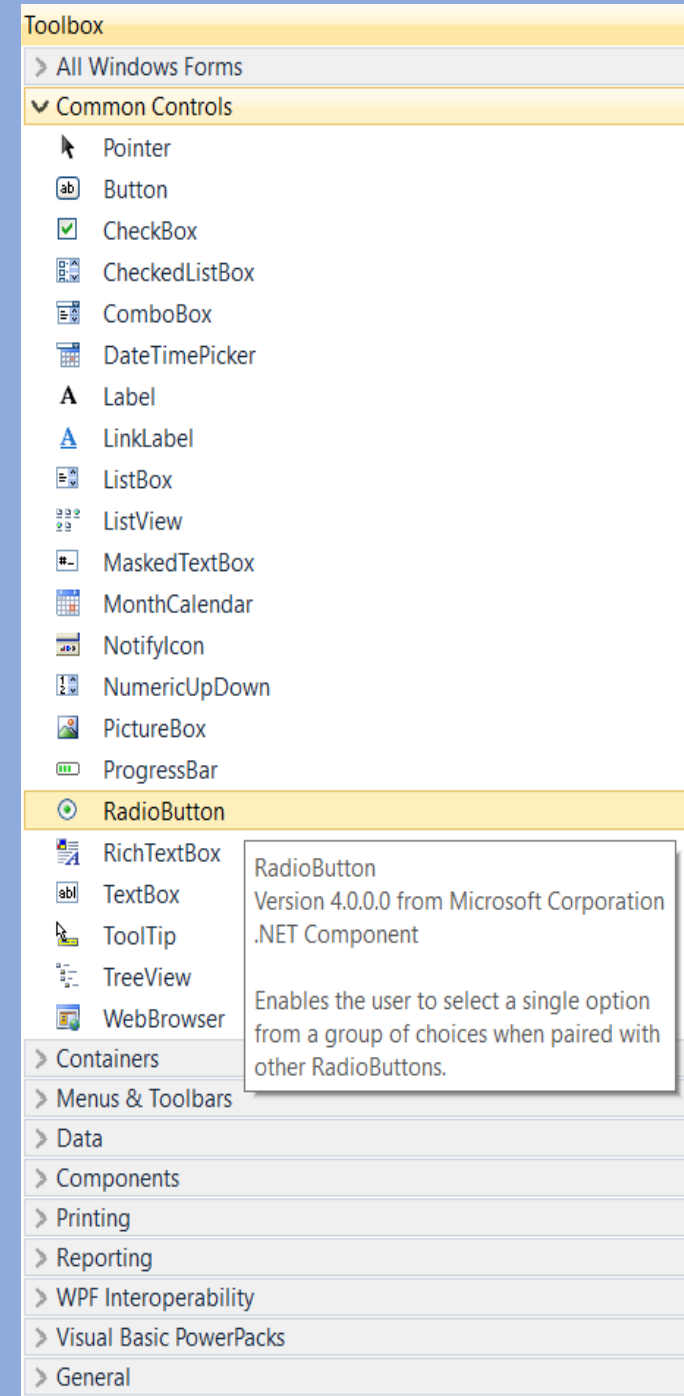
Methods Used

Show	Displays the radio button to the user.
Hide	Conceals the radio button from the user.

Event Used

- **CheckedChanged**

Occurs when the value of the Checked property of the RadioButton control is changed.



RadioButton Control

For Example,

Private Sub RadioButton1_CheckedChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles RadioButton1.CheckedChanged

 If Form1.type = 2 And RadioButton1.Checked = True Then

 Me.Text = "BOOKED HISTORY"

 Me.BackColor = Color.CadetBlue

 Dim com As SqlCommand = New SqlCommand("select * from RECORDS where TICKET_STATUS='CONFIRMED' ORDER BY PNR_NUM DESC", con)

 Dim da As SqlDataAdapter = New SqlDataAdapter(com)

 Dim ds As DataSet = New DataSet()

 da.Fill(ds, "RECORDS")

 DataGridView1.DataSource = ds.Tables(0)

 End If

End Sub

	PNR_NUM	BOOKED_TRAIN	JOURNEY_DATE	BOOKED_DATE	TICKET_STATUS	TOTAL_FARE
▶	341736615	12243	30-9-17	30-9-17 01:10:20 PM	CONFIRMED	659.34/- Rs.
	341735615	12235	30-9-17	30-9-17 12:25:27 PM	CONFIRMED	654.9/- Rs.
	341734620	12235	29-9-17	29-9-17 04:10:58 PM	CONFIRMED	654.9/- Rs.
	341734619	12236	29-9-17	29-9-17 03:34:40 PM	CONFIRMED	649.1/- Rs.
	341734618	12235	29-9-17	29-9-17 03:29:04 PM	CONFIRMED	654.9/- Rs.
	341734617	12235	29-9-17	29-9-17 02:50:58 PM	CONFIRMED	654.9/- Rs.
	341734616	12235	29-9-17	29-9-17 12:36:09 PM	CONFIRMED	654.9/- Rs.
	341734615	12235	29-9-17	29-9-17 11:31:00 AM	CONFIRMED	654.9/- Rs.
	341733615	12235	1-10-17	29-9-17 09:37:39 AM	CONFIRMED	654.9/- Rs.
	341732615	12235	29-9-17	29-9-17 09:27:05 AM	CONFIRMED	654.9/- Rs.
	341731621	12243	21-9-17	21-9-17 12:44:42 AM	CONFIRMED	659.34/- Rs.
	341731620	12243	21-9-17	21-9-17 12:44:08 AM	CONFIRMED	659.34/- Rs.
	341731619	12310	21-9-17	21-9-17 12:41:48 AM	CONFIRMED	704.85/- Rs.
	341731618	12235	21-9-17	21-9-17 12:18:28 AM	CONFIRMED	619.5/- Rs.
	341731617	12235	21-9-17	21-9-17 12:15:37 AM	CONFIRMED	654.9/- Rs.
	341731616	12235	21-9-17	21-9-17 12:13:39 AM	CONFIRMED	619.5/- Rs.
	341731615	12235	21-9-17	21-9-17 12:09:00 AM	CONFIRMED	619.5/- Rs.

RadioButton Control

Other Properties

Appearance	Controls whether the radio button appears as normal or as a button.
Size	Specifies the size of the RadioButton in pixels.

Other Methods

PerformClick	Generates a click event for the radio button.
ResetText	Resets the text property of the radio button to its default value.
SelectNextControl	Activates the next control.

Other Events

AppearanceChanged	Occurs when the radio button Appearance property value changes.
FontChanged	Occurs when the font property value changes.
DragDrop	Occurs when a drag-drop operation is completed.
CursorChanged	Occurs when the value of the cursor property changes.

DataGridView Control

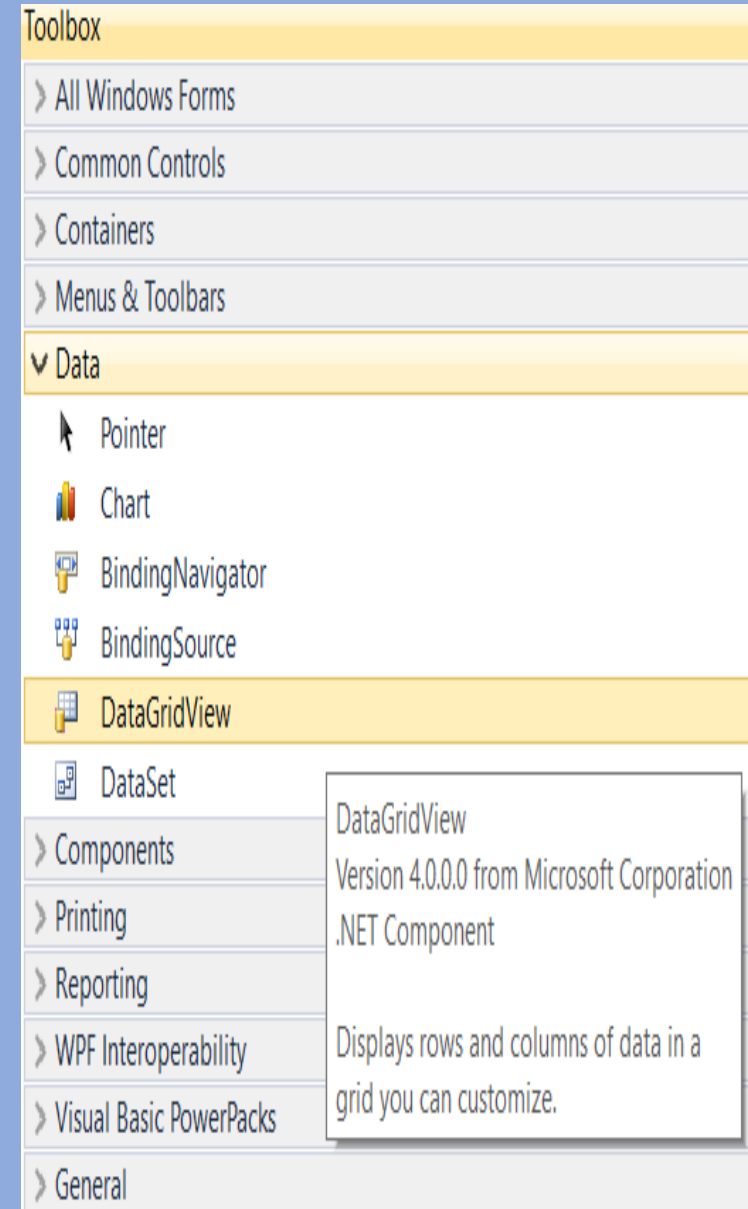
DataGridView displays a table-like grid display while the data can come from a data source such as a DataSet or BindingSource. We can add rows and columns directly to the control without using the mentioned data source objects.

Properties Used:

AllowUserToOrderColumns	Indicates whether manual column repositioning is enabled.
MultiSelect	Indicates whether the user is allowed to select more than one cell, row or column of the DataGridView at a time.
ReadOnly	Indicates whether the user can edit the cells of the DataGridView control.

Events Used:

CellContentClick	Occurs when the content in a cell is clicked.
RowHeaderMouseClick	Occurs when the user clicks within the boundaries of a row header.



DataGridView Control

For Example,

Public Sub DataGridView1_RowClick(ByVal sender As Object, ByVal e As DataGridViewCellEventArgs) Handles DataGridView1.**RowHeaderMouseClick**

MsgBox("CLICK ON THE ROW CELLS TO SELECT THAT TRAIN/RECORD", MsgBoxStyle.Information, "SELECTION")

End Sub

The screenshot shows a Windows application window titled "TRAIN DETAILS". The window has a teal header bar with the text "CHENNAI CENTRAL TO COIMBATORE JN ON 3-10-17". Below the header, there are radio buttons for "QUOTA: GENERAL", "PHYSICALLY HANDICAPPED", "LADIES", and "TATKAL". The "GENERAL" option is selected. Below the radio buttons is a DataGridView with the following columns: TRAIN_NUMBER, TRAIN_NAME, FROM_STATION, DEPARTURE_TIME, and TO_STATION. The first row of the DataGridView is highlighted in blue and contains the following data: 12243, Chennai Central-Coimbatore Shatabdi Express, CHENNAI CENTRAL, 7:15, and COIMBATORE JN. A message box titled "SELECTION" is displayed in the center of the window. The message box contains an information icon and the text "CLICK ON THE ROW CELLS TO SELECT THAT TRAIN/RECORD". There is an "OK" button at the bottom right of the message box. At the bottom of the application window, there is a "RETURN" button.

TRAIN_NUMBER	TRAIN_NAME	FROM_STATION	DEPARTURE_TIME	TO_STATION
12243	Chennai Central-Coimbatore Shatabdi Express	CHENNAI CENTRAL	7:15	COIMBATORE JN

DataGridView Control

CellContentClick

CANCELLED HISTORY

BOOKED HISTORY

CANCELLATION HISTORY

	PNR_NUM	BOOKED_TRAIN	JOURNEY_DATE	BOOKED_DATE	TICKET_STATUS	REFUNDED_AMOUNT
▶	341732616	12236	30-9-17	29-9-17 09:28:40 AM	CANCELLED	596.01/-Rs.

CLEAR ALL

RETURN

TICKET DETAILS

PNR NUMBER341732616CANCELLEDBOOKED DATE29-9-17 09:28:40 AM

TRAIN DETAILS

TRAINNew Delhi - Dibrugarh Rajdhani Express12236JOURNEY DATE30-9-17QUOTAGENERAL

FROMNEW DELHI

TO

DIBRUGARH

DEPARTURE TIME9:25

ARRIVAL TIME14:55

CLASSI-Class AC

PASSENGER DETAILS

No. Of Passengers :1

SL. NO.	NAME	AGE	GENDER	BERTH PREFERENCE	NATIONALITY	CHARGED AS	SEAT
1	AKASH	25	MALE	No Preference	India	ADULT (FULL FARE)	A0

PAYMENT DETAILS

BASE FARE591/- Rs.

RESERVATION CHARGE29.55/-Rs.

OTHER CHARGES35.46/-Rs.

TOTAL AMOUNT656.01/- Rs.

REFUNDED AMOUNT596.01/-Rs.

PRINT TICKET

BOOK NEW

DataGridView Control

Other Properties

AutoSizeRowsMode	Determines the auto size mode for the visible rows.
AllowUserToDeleteRows	Indicates whether the user is allowed to delete rows from DataGridView.

Other Methods

GetCellCount	Gets the number of cells that satisfies the provided filter.
DisplayedRowCount	Returns the number of rows displayed to the user.
DisplayedColumnCount	Returns the number of columns displayed to the user.
ClearSelection	Clears the current selection by unselecting all selected cells.
BeginEdit	Puts the current cell in edit mode.

Other Events

CellBeginEdit	Occurs when edit mode starts for the selected cell.
ColumnAdded	Occurs when a column is added to the DataGridView.
Scroll	Occurs when the user scroll through the DataGridView contents.

CheckBox Control

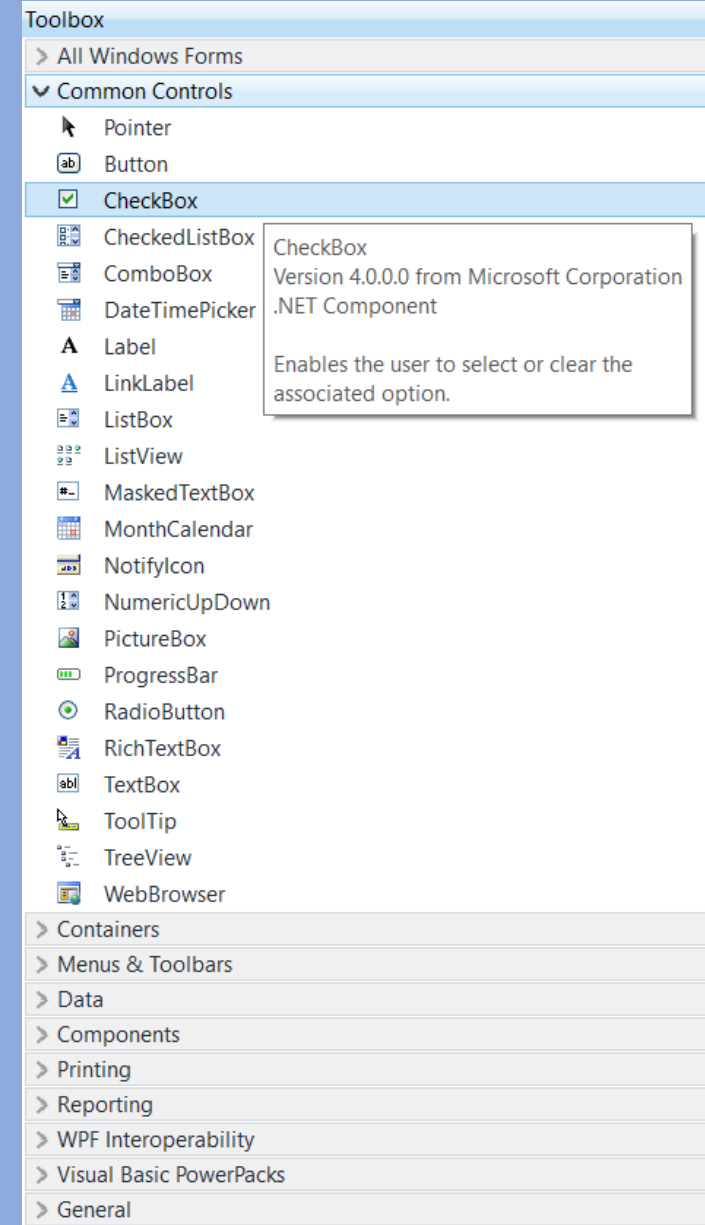
The CheckBox control allows the user to set true/false type options. The user can select or deselect it. When a check box is selected it has the value True, and when it is cleared, it holds the value False.

Few Properties :

CheckState	Gets or sets a value indicating the checkbox state.
Appearance	Controls whether the radio button appears as normal or as a button.
MaximumSize	Specifies the maximum size of the checkbox.
CheckAlign	Gets or sets the location of the checkbox inside the control.
TextAlign	Gets or sets the alignment of the text that will be displayed on checkbox

Few Methods:

Show	Displays the CheckBox to the user.
Hide	Conceals the CheckBox from the user.



CheckBox Control

Few Methods:

BringToFront	Brings the check box to front of the z-order.
Focus	Sets input focus to the checkbox.
ResetText	Resets the text property of the check box to its default value.

Few Events:

CheckedChanged	Occurs when the value of checked property changes.
AppearanceChanged	Occurs when the checkbox Appearance property value changes.
FontChanged	Occurs when the font property value changes.
DragDrop	Occurs when a drag-drop operation is completed.
CursorChanged	Occurs when the value of the cursor property changes.

ScrollBar Control

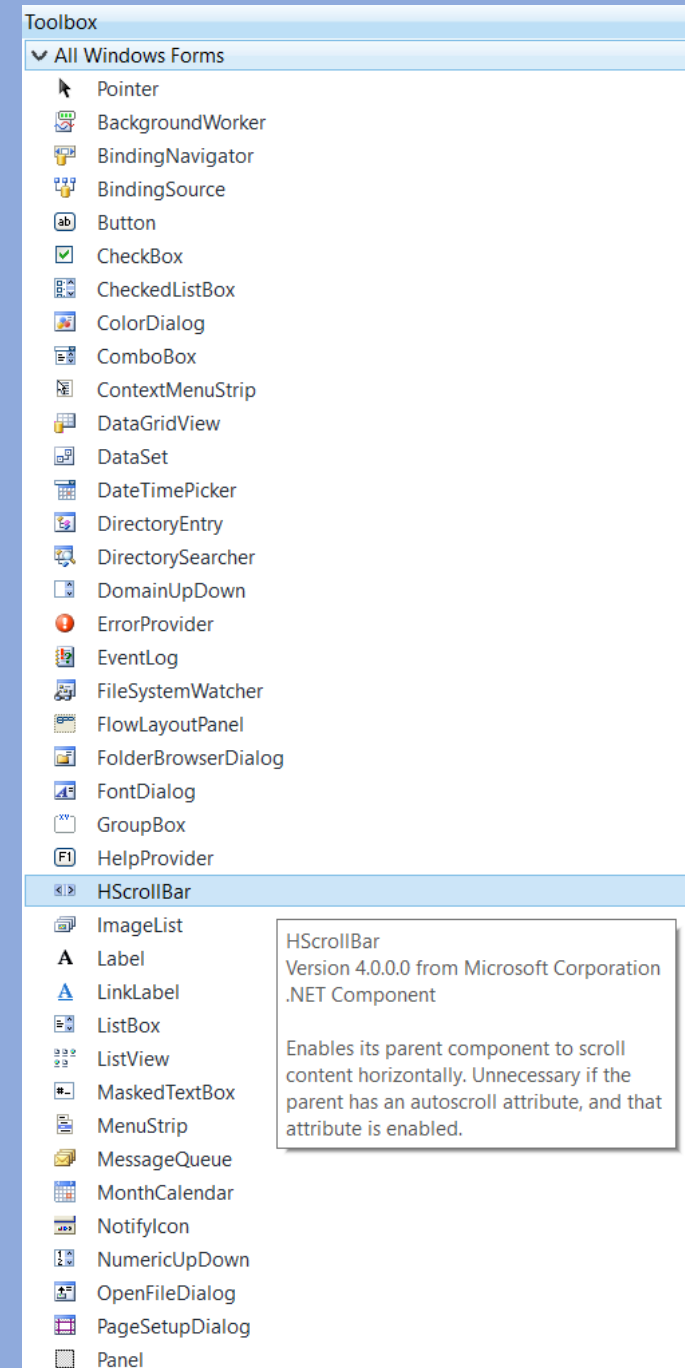
The ScrollBar controls display vertical and horizontal scroll bars on the form. This is used for navigating through large amount of information. There are two types of scroll bar controls: HScrollBar for horizontal scroll bars and VScrollBar for vertical scroll bars. These are used independently from each other.

Few Properties :

Locked	Determines whether the ScrollBars can be moved or resized.
MinimumSize	Specifies the minimum size of the ScrollBar.
Maximum	Gets or sets the value of the upper limit of the scrollable range.
Minimum	Gets or sets the value of the lower limit of the scrollable range.
MaximumSize	Specifies the maximum size of the ScrollBar.

Few Methods:

Show	Displays the ScrollBar to the user.
Hide	Conceals the ScrollBar from the user.



ScrollBar Control

Few Methods:

BringToFront	Brings the scrollbar to front of the z-order.
Select	Activates the ScrollBar.
SendToBack	Sends the scrollbar to back of the z-order.

Few Events:

Scroll	Occurs when the scroll box has been moved.
GotFocus	Occurs when the scrollbar receives focus.
LostFocus	Occurs when the scrollbar loses focus.
DragDrop	Occurs when a drag-drop operation is completed.
CursorChanged	Occurs when the value of the cursor property changes.

Toolbox

OpenFileDialog

PageSetupDialog

Panel

PerformanceCounter

PictureBox

PrintDialog

PrintDocument

PrintPreviewControl

PrintPreviewDialog

Process

ProgressBar

PropertyGrid

RadioButton

RichTextBox

SaveFileDialog

SerialPort

ServiceController

SplitContainer

Splitter

StatusStrip

TabControl

TableLayoutPanel

TextBox

Timer

ToolStrip

ToolStripContainer

ToolTip

TrackBar

TreeView

VScrollBar

WebBrowser

> Common Controls

> Containers

> Menus & Toolbars

> Data

> Components

> Printing

> Reporting

> WPF Interoperability

> Visual Basic PowerPacks

> General

VScrollBar

Version 4.0.0.0 from Microsoft Corporation .NET Component

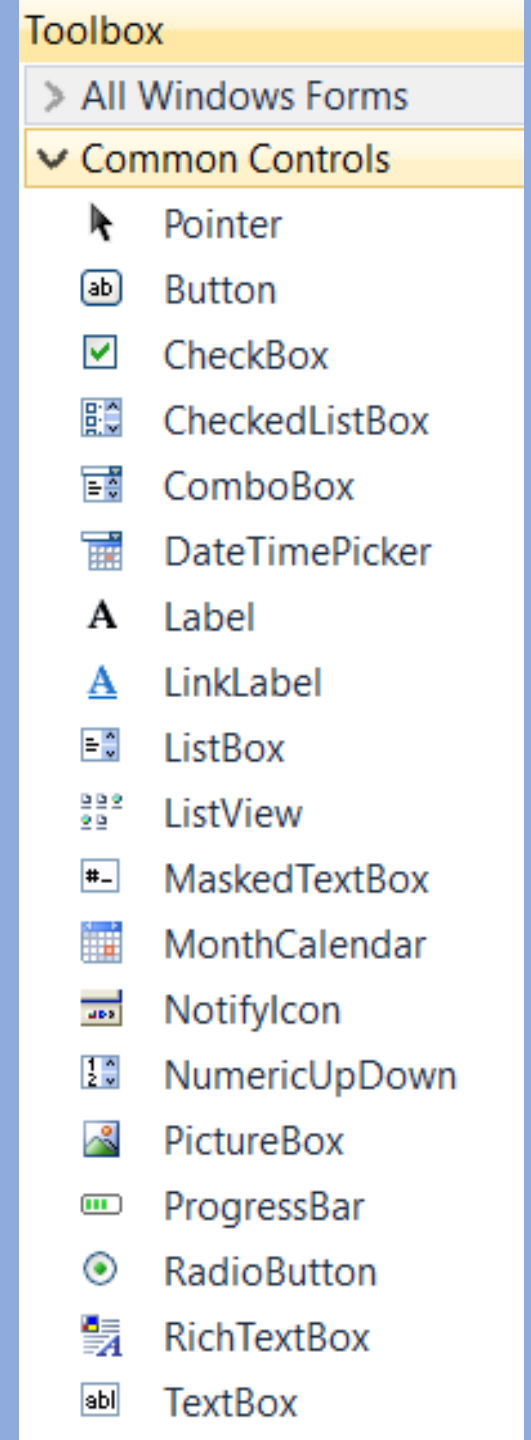
Enables its parent component to scroll content vertically. Unnecessary if the parent has an autoscroll attribute, and the attribute is enabled.

OTHER CONTROLS USED

The following lists some of the other controls used :

- 1.Label
- 2.LinkLabel
- 3.MonthCalendar
- 4.NumericUpDown

We can create above controls by dragging that control from the Toolbox and dropping it on the form.



Label Control

The Label control represents a standard Windows label. It is generally used to display some informative text on the GUI which can be changed during runtime.

Properties Used:

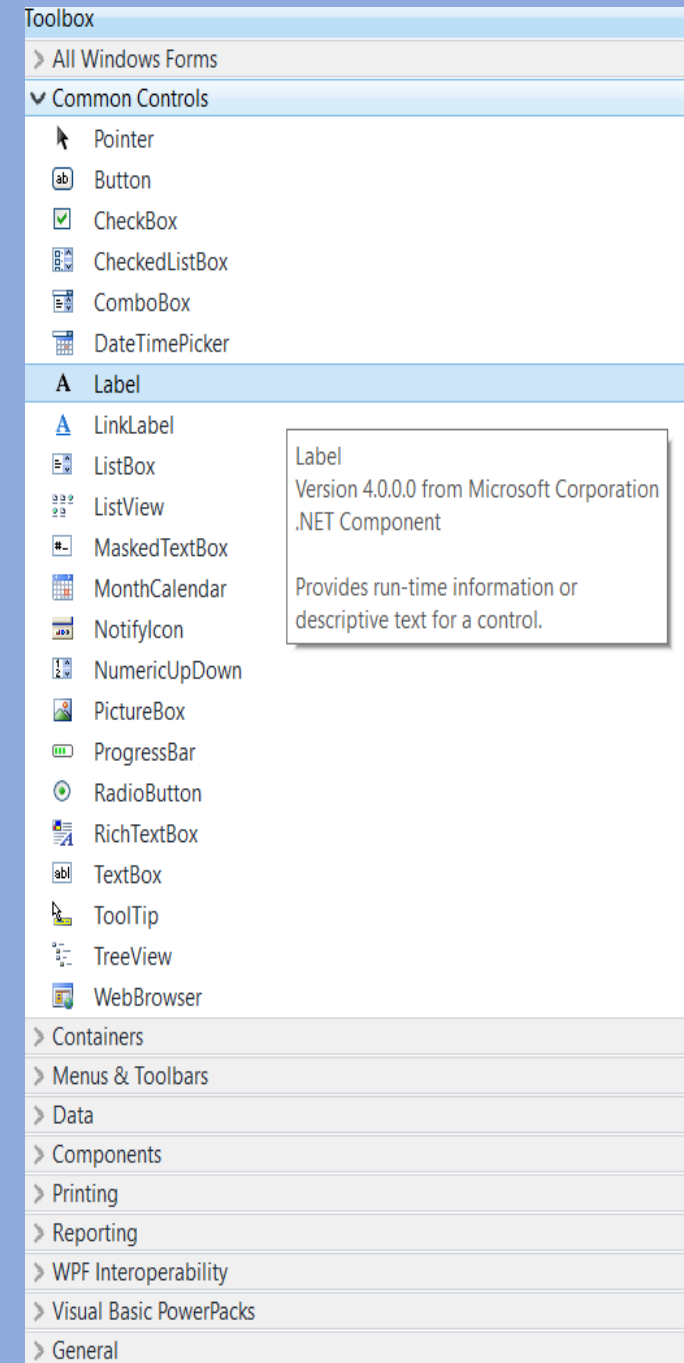
Autosize	Gets or sets a value specifying if the label should be automatically resized to display all its contents.
BorderStyle	Gets or sets the border style for the label.
Font	Gets or sets the font of the text displayed by the label.
Text	Gets or sets the text associated with the label.
Cursor	Gets or sets the cursor that appears when the pointer moves over label.

Methods Used:

Show	Displays the label to the user.
Hide	Conceals the label from the user.

Event Used:

- **Click** : Occurs when the label is clicked.



Label Control

For Example,

Private Sub Label57_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles Label57.Click

 MsgBox("TRAIN SCHEDULE CURRENTLY NOT AVAILABLE"
+ vbNewLine + "SORRY FOR THE INCONVENIENCE",
MsgBoxStyle.Information, "TRAIN DETAILS")

End Sub

The screenshot displays a 'RESERVATION DETAILS' application window with a scenic background of a train winding through a mountainous landscape. The window is divided into several sections:

- TRAIN DETAILS:** Includes fields for TRAIN (Thiruvananthapuram - Kozhikode Jan Sha 12076), JOURNEY DATE (2017-10-12), QUOTA (GENERAL), FROM (TRIVANDRUM CNTL), TO (KOZHIKKODE), DEPARTURE TIME (6:00), ARRIVAL TIME (12:55), and CLASS (Sleeper Class).
- PASSENGER DETAILS:** Includes a table with columns SL. NO., NAME, AGE, GENDER, BERTH PREFERENCE, NATIONALITY, and CHARGED AS. The first row shows a passenger named AKASH KRISHNA S 20, aged 20, charged as ADULT. A 'No. Of Passengers' field shows 1.
- PAYMENT DETAILS:** Includes fields for BASE FARE (555/- Rs.), RESERVATION CHARGE (49.95/- Rs.), OTHER CHARGES (0), and TOTAL AMOUNT (604.95/- Rs.).
- Buttons:** At the bottom, there are four buttons: PAY CASH, RETURN, REPLAN, and CANCEL.

A modal dialog box titled 'TRAIN DETAILS' is overlaid on the window, displaying an information icon and the message: 'TRAIN SCHEDULE CURRENTLY NOT AVAILABLE SORRY FOR THE INCONVENIENCE'. An 'OK' button is at the bottom of the dialog.

LinkLabel Control

The Link label control represents a windows label that supports hyperlink functionality, formatting, tracking and displaying some informative text on the GUI which can be changed during runtime.

Properties Used:

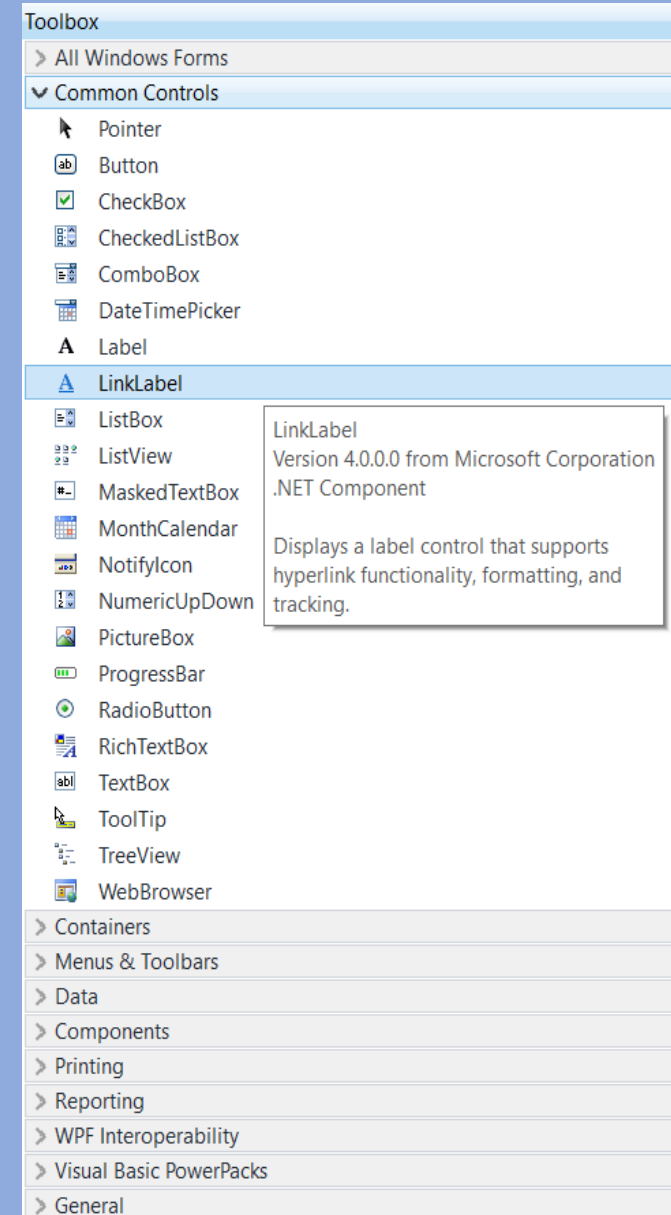
Autosize	Gets or sets a value specifying if the linklabel should be automatically resized to display all its contents.
Font	Gets or sets the font of the text displayed by the linklabel.
Text	Gets or sets the text associated with the linklabel.
LinkColor	Gets or sets the colour of the hyperlink in its default state.

Methods Used:

Show	Displays the linklabel to the user.
Hide	Conceals the linklabel from the user.

Event Used:

- **LinkClicked** : Occurs when a link is clicked within the control.



LinkLabel Control

For Example,

Private Sub LOGOUT (ByVal sender As Object, ByVal e As LinkLabelLinkClickedEventArgs) Handles LinkLabel1.LinkClicked

```
Dim i As Integer = MsgBox("Are You Sure You Want To Logout...?", MsgBoxStyle.Question + MsgBoxStyle.YesNo + MsgBoxStyle.DefaultButton2 + MsgBoxStyle.ApplicationModal, "LOGOUT")
```

```
If i = MsgBoxResult.Yes Then
```

```
log = 0
```

```
MyBase.OnLoad(e)
```

```
Label8.Text = "USER ID"
```

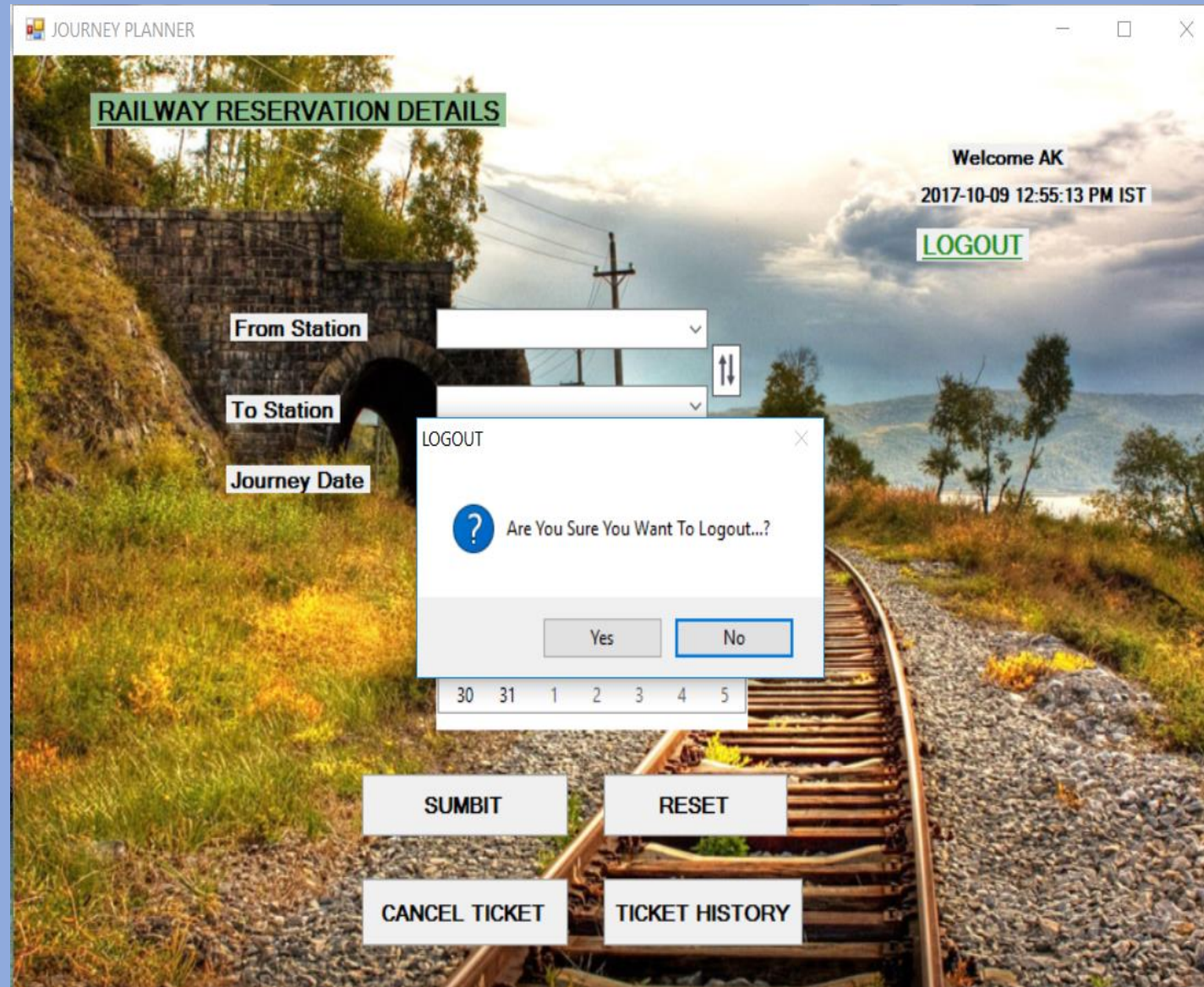
```
TextBox1.Clear()
```

```
ComboBox1.SelectedIndex = -1
```

```
ComboBox2.SelectedIndex = -1
```

```
End If
```

```
End Sub
```



MonthCalendar Control

The MonthCalendar control displays a monthly calendar from which the user can select a date.

Properties Used:

MinDate	The minimum date that can be selected for this control.
MaxDate	The maximum date that can be selected for this control.
MaxSelectionCount	The total number of days that can be selected for this control.
ShowTodayCircle	Indicates whether this control will circle the 'today' date
SelectionStart	Gets or sets the start date of the selected range of dates.

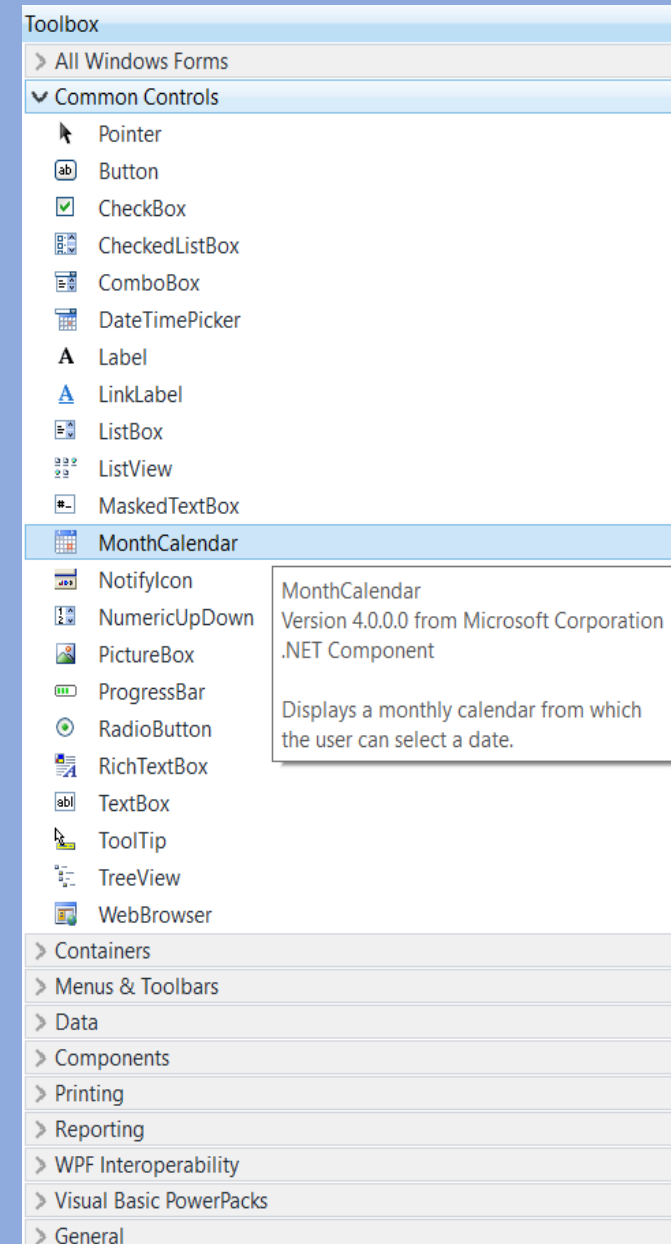
Methods Used:

Show	Displays the control to the user.
Hide	Conceals the control from the user.

For Example:

MonthCalendar1.MinDate = Today

Form3.Label2.Text = MonthCalendar1.SelectionStart.ToShortDateString



NumericUpDown Control

The NumericUpDown control displays a single numeric value that the user can increment or decrement by clicking up and down buttons on the control.

Properties Used:

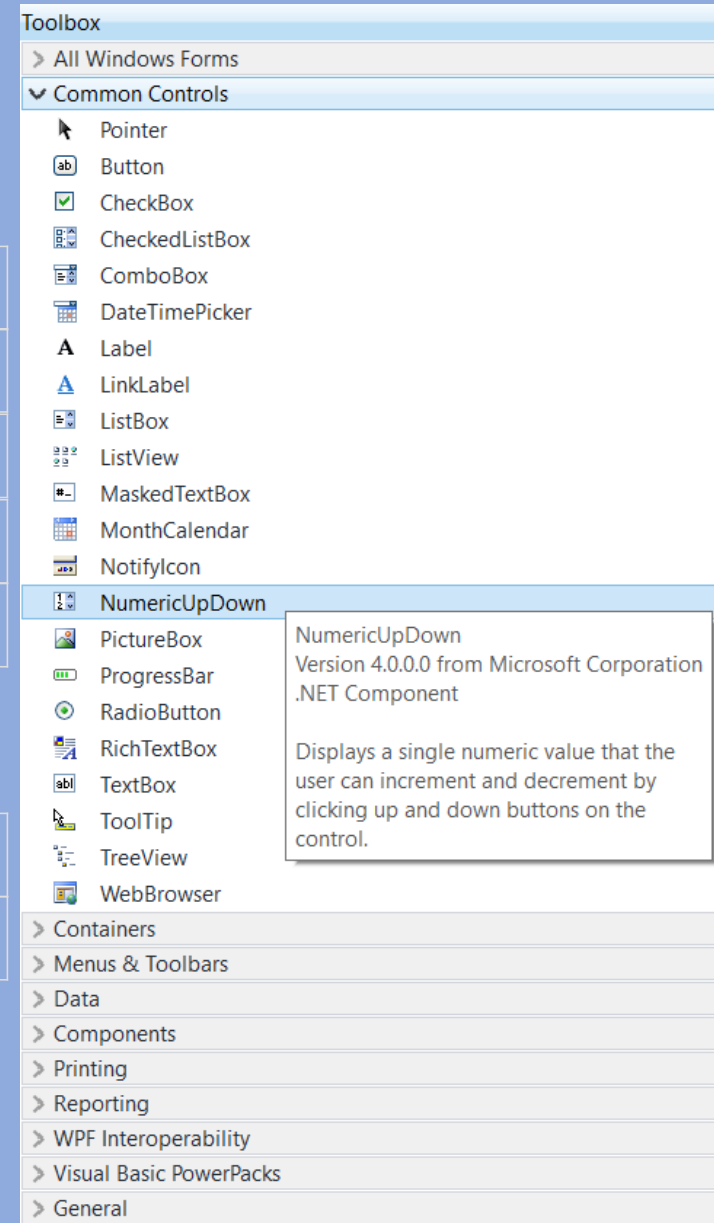
Minimum	Indicates the minimum value for this control.
Maximum	Indicates the maximum value for this control.
Increment	Indicates the amount of increment or decrement on each button click.
ReadOnly	Indicates whether the edit box of this control is read only or not.
Value	Gets or sets the current value of this NumericUpDown control.

Methods Used:

Show	Displays the control to the user.
Hide	Conceals the control from the user.

Event Used:

- **ValueChanged** : Occurs when the value property is changed.



NumericUpDown Control

For Example,

Private Sub NumericUpDown1_ValueChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles NumericUpDown1.ValueChanged

If NumericUpDown1.Value > 11 And NumericUpDown1.Value < 60 Then

 ComboBox6.Enabled = True

 ComboBox6.Items.Remove("No Berth Alotted")

 ComboBox6.Items.Remove("No Berth")

 TextBox6.Text = "ADULT (FULL FARE)"

 End If

End Sub

The screenshot shows a 'PASSENGER DETAILS' window with the following fields and values:

- TRAIN:** Thiruvananthapuram - Kozhikode Jan St 12076 Express
- JOURNEY DATE:** 2017-10-12
- BASE FARE:** 555/- Rs.
- FROM:** TRIVANDRUM CNTL
- TO:** KOZHIKKODE
- QUOTA:** GENERAL
- DEPARTURE TIME:** 6:00
- ARRIVAL TIME:** 12:55
- CLASS:** Sleeper Class
- NO. OF PASSENGERS:** 1

SL. NO.	NAME	AGE	GENDER	BERTH PREFERENCE	NATIONALITY	CHARGED AS
1	AKASH KRISHNA	20	MALE	UPPER BERTH	India	ADULT (FULL FARE)

At the bottom of the form, there are four buttons: Book Now, Reset, Return, and Cancel.

VISUAL BASIC .NET

