<u>Form Implementation</u>

The Below shown diagrams will show how the forms were built and back end of the forms. A clear explanation of the VBA Codes will be shows.

1. The Welcome Screen – frmWelcomeScreen

The VBA code behind it. This Code will run on the Form Load.

```
Private Sub Form_Load()

'To hide the Ribbon menu
DoCmd.ShowToolbar "Ribbon", acToolbarNo

'To hide the Navigation pane
DoCmd.SelectObject acTable, , True
DoCmd.RunCommand acCmdWindowHide

End Sub
```

2. The Login Form – frmLogin

The Submit Button will be Default disabled.

The VBA code behind the form

```vba
Option Compare Database
'set a public variable for the userlevel as Userlevel
Public UserLevel As String
'declare a variable for the timer as StartTimer
Dim StartTimer As Integer


Private Sub cmdSubmit_Click()
'check if the user name is empty or not
If IsNull(Me.txtUser) Or Me.txtUser = "" Then
    'if it is show message
    MsgBox "User Name is Empty", vbInformation, "Login"
    'if it is empty the UserName text box and focus on it
    Me.txtUser.SetFocus

Exit Sub

End If
'check if the user name and password is matching
If (IsNull(DLookup("UserName", "tblUserDetails", "UserName = '" & Me.txtUser.Value & "'"))) Or _
    (IsNull(DLookup("Password", "tblUserDetails", "Password = '" & Me.txtPassword.Value & "'"))) Then
    'if it is not matching then show message
    MsgBox "Invalid User Name or Password", vbCritical, "Alert"
    'empty User name Text box
    Me.txtUser = ""
    'empty Password Text Box
    Me.txtPassword = ""
    'focus on the User Name Text Box
    Me.txtUser.SetFocus
    'disable password text box
    Me.txtPassword.Enabled = False
    'disable command button Submit
    Me.cmdSubmit.Enabled = False


Else
'make the UserLevel variable equal to lookup the Userlevel from the User table
UserLevel = DLookup("UserLevel", "tblUserDetails", "UserName = '" & Me.txtUser.Value & "'")
            'if the user is a manager
            If UserLevel = "Manager" Then
                ' call on the sub ClosenOpen
                Call ClosenOpen
                'Open form
                DoCmd.OpenForm "frmManagerAuthority"

            Else
                'Call on the sub ClosenOpen
                Call ClosenOpen
                'Open form
                DoCmd.OpenForm "frmMainMenu", acNormal, "", "", acFormReadOnly

            End If

End If

End Sub
Sub ClosenOpen()
'logstatus is a gloabal variable set to pass on the userlevel of the user
logstatus = Me.UserLevel
'close form
DoCmd.Close acForm, "frmLogin", acSaveNo

End Sub


Private Sub Form_Load()
'set StartTimer variable to 30 seconds
StartTimer = 30
'set timerinterval equal to 1000 milliseconds
TimerInterval = 1000

End Sub
```

```
Private Sub Form_Timer()
'StartTimer is not equal to 30 second, so in this process it will count down. StartTimer = 30 - 1
StartTimer = StartTimer - 1
'if the StartTimer is equal to 0 Seconds
If StartTimer = 0 Then
 'then timerinterval is equal to 0 seconds
 TimerInterval = 0
 'close form
 DoCmd.Close acForm, "frmLogin", acSaveNo
 'open form
 DoCmd.OpenForm "frmWelcomeScreen", acNormal, "", "", acFormReadOnly, acWindowNormal

 End If

End Sub
```

```
Private Sub txtPassword_Change()
'if the Password Text box is empty
If txtPassword.Text = "" Then
    'then disable the command button Submit
    cmdSubmit.Enabled = False

Else
    'if the Password Text Box is not empty then enable the command button Submit
    cmdSubmit.Enabled = True

End If

End Sub
```

```
Private Sub txtUser_Change()
'if the UserName text box is not empty then enable the Password Text box
txtPassword.Enabled = True
'if the User Name Text box is empty
If txtUser.Text = "" Then
    'then disable the Password text box
    txtPassword.Enabled = False

Else
    'if the User Name Text box is not empty then enable the Password Text box
    txtPassword.Enabled = True

End If

End Sub
```

3. The Full Authority Form – frmManagerAuthority

The Textbox is set invisible

The VBA Code behind the form

```
Private Sub Form_Load()
'this is to pass on the user level. set text box equal to the variable Logstatus
txtManager.Value = logstatus


End Sub
```

4. The User Control Form – frmUserControl

The Split datasheet will only show up in the Form View

The VBA Code behind the Form

```vb
Private Sub Command17_Click()
'The purpose of this is to check whether the user has filled all the Details or not

'Check if the TextBoxes are not Empty
If Me.UserName <> "" And Me.txtPass <> "" And Me.txtRPass <> "" And Me.UserLevel <> "" Then
    'If the Textboxes are not Empty, this message will show up
    MsgBox "User Details are successfully saved into the database", vbOKOnly, "User Control"
    'Save Record
    DoCmd.Save
    'Set Focus to the UserID Text box
    Me.UserID.SetFocus

Else
    'If A Textbox is empty, this message will show up. without filling the details the user cannot move forward.
    MsgBox "A textbox is empty. Please provide all the details", vbExclamation, "User Control"

End If
End Sub
```

```vb
Private Sub txtRPass_LostFocus()
'the purpose of this is to check if the retype password is matching the password.
'if password textbox value is not matching to retype password text box
If Me.txtPass <> Me.txtRPass Then
    'then message will show up
    MsgBox "Your 'Retype password' did not match your 'Password' field. Please enter these values again", vbCritical, "User Control"
    'empty Password text box
    Me.txtPass = ""
    'Empty retype Password Text box
    Me.txtRPass = ""
    'set focus to the password text box to re-enter
    Me.txtPass.SetFocus

End If
End Sub
```

5. The Main Menu – frmMainMenu

If the User level is Manager then only the Back Button shows up

The VBA code behind the form

```vba
Private Sub Command69_Click()
'close form
DoCmd.Close
'open form
DoCmd.OpenForm "frmManagerAuthority", acNormal

End Sub


Private Sub Form_Load()
'this process is to pass on the user level
'set text box value equal to the variable logstatus
txt12.Value = logstatus
'if the text box value is equal to Manager
If txt12.Value = "Manager" Then
    'make command button 'Back' visible
    Command69.Visible = True

Else
    'make command Button 'Back' invisible
    Command69.Visible = False

End If

End Sub


Private Sub Form_Timer()
'this is used to display the time in the Main menu
Me.txtTimer.Value = Format(Time, "HH:mm:ss AM/PM")

End Sub
```

6. The Guest Details Form – frmGuestDetailsExtended

The VBA code behind the form

```
Private Sub Command11_Click()
'this is search guest process
'declare variables
Dim db As DAO.Database
Dim rs As DAO.Recordset
'set db as the curren database
Set db = CurrentDb
'declare variables
Dim qry As String
Dim NIC As String
'when the Search Guest button is click The input box will show up
NIC = InputBox("Please enter NIC/Passport Number of the Guest", "Guest Data Entry")
'the Guest will be searched by his/hers NIC/Passport No
qry = "select * from qryGuestDetailsExtended where NICPassportNo = '" & NIC & "'"
Set rs = db.OpenRecordset(qry)

Me.frmGuestDetailsExtendedDS.Form.RecordSource = qry

End Sub
```
```
Private Sub Command16_Click()
'the browseto method is used to navigate between objects in place
DoCmd.BrowseTo acForm, "frmGuestDetailsExtendedDS", "frmMainMenu.NavigationSubform>frmGuestDetailsExtended.frmGuestDetailsExtendedDS", "", "", acFormReadOnly

End Sub
```
```
Private Sub Command22_Click()
'this process is done to refresh the subform
'declare a variable as ref
Dim ref As String

ref = ""
'the SourceObject property is to identify the form that is the source of the subform.
'give the name of the subform that needs to be refreshed
ref = frmGuestDetailsExtendedDS.SourceObject
frmGuestDetailsExtendedDS.SourceObject = ref
End Sub
```

7.   The Guest Data Entry form – frmGuestDE

The VBA code behind the form

```
Private Sub Command31_Click()
'The purpose of this is to check whether the user  has filled all the Details or not

'Check if the TextBoxes are not Empty
If Me.GuestID <> "" And Me.Title <> "" And Me.FirstName <> "" And Me.LastName <> "" And Me.DOB <> "" _
    And Me.StreetAddress <> "" And Me.Town <> "" And Me.Country <> "" And Me.Mobile <> "" And Me.NICPassportNo <> "" Then
    'If the Textboxes are not Empty, this message will show up
    MsgBox "Guest Details are successfully saved into the database", vbOKOnly, "Guest Data Entry"
    'Save Record
    DoCmd.Save
    'Close Form
    DoCmd.Close

Else
    'If A Textbox is empty, this message will show up. without filling the details the user cannot move forward.
    MsgBox "A textbox is empty. Please provide all the details", vbExclamation, "Guest Data Entry"

End If

End Sub
```

8. The Room Details Form – frmRoomDetailsExtended

frmRoomDetailsExtended

Form Header

Rooms

Detail

| Add New Room | All Rooms | Available Rooms | Unavailable Rooms | Room Information | Refresh Details |

Form Header

Detail

RoomID — RoomID
Room Number — RoomNumber
Type — Type
Notes — Notes
Cost PerNight — CostPerNight
Availability — ☑

Form Footer

Room Details

Rooms

| Add New Room | All Rooms | Available Rooms | Unavailable Rooms | Room Information | Refresh Details |

RoomID	Room Number	Type	Notes	Cost PerNight	Availability
2	101	Standard	Good Conditio	£100.00	☑
3	102	Supreme	Good conditio	£200.00	☑
4	103	Deluxe	Good Conditio	£300.00	☑
5	104	Standard	Good Conditio	£200.00	☑
6	105	Supreme	BreakFast Inclu	£400.00	☑
7	106	Deluxe	Booked	£500.00	☐
8	107	Standard	Good Conditio	£550.00	☑
9	108	Supreme	Air Condition F	£200.00	☐
10	109	Deluxe	Booked	£1,000.00	☐
11	110	Standard	Full Board	£800.00	☑
12	125	Supreme	Full Board	£900.00	☑
13	167	Deluxe	Repairs	£250.00	☐
14	209	Standard	not in use	£250.00	☐
15	99	Supreme	Good Conditio	£777.00	☑
16	333	Standard	repairs	£223.00	☐
* (New)	0			£0.00	☐

The VBA code behind the form

```
Private Sub Command11_Click()
'this process is done to refresh the subform

'declare a variable as ref
Dim ref As String

ref = ""
'the SourceObject property is to identify the form that is the source of the subform.
'give the name of the subform that needs to be refreshed
ref = DS.SourceObject
DS.SourceObject = ref

End Sub
```

```
Private Sub Command3_Click()
    'the browseto method is used to navigate between objects in place
    'show only the available rooms
    DoCmd.BrowseTo acForm, "frmRoomDetailsExtendedDS", "frmMainMenu.NavigationSubform>frmRoomDetailsExtended.DS", "[Active]=True", "", acFormReadOnly

End Sub
```

```
Private Sub Command4_Click()
    'the browseto method is used to navigate between objects in place
    'show only the unavailable rooms
    DoCmd.BrowseTo acForm, "frmRoomDetailsExtendedDS", "frmMainMenu.NavigationSubform>frmRoomDetailsExtended.DS", "[Active]=False", "", acFormReadOnly

End Sub
```

```
Private Sub Command8_Click()
    'the browseto method is used to navigate between objects in place
    'to Display all the Room Details
    DoCmd.BrowseTo acForm, "frmRoomDetailsExtendedDS", "frmMainMenu.NavigationSubform>frmRoomDetailsExtended.DS", "", "", acFormReadOnly

End Sub
```

9. The Room Data Entry Form – frmRoomDE

The VBA code behind the form

```
Private Sub Command19_Click()
'The purpose of this is to check whether the user  has filled all the Details or not

'Check if the TextBoxes are not Empty
If Me.RoomID <> "" And Me.RoomNumber <> "" And Me.Type <> "" _
    And Me.Notes <> "" And Me.CostPerNight Then
    'If the Textboxes are not Empty, this message will show up
    MsgBox "Room Details are successfully saved into the database", vbOKOnly, "Add New Room"
    'Save Record
    DoCmd.Save
    'Close Form
    DoCmd.Close

Else
    'If A Textbox is empty, this message will show up. without filling the details the user cannot move forward.
    MsgBox "A textbox is empty. Please provide all the details", vbExclamation, "Add New Room"

End If

End Sub
```

10. The Room Information Form – frmRoomInformation

For this form there won't be any code written.

11. The Booking Details Form – frmBookingDetailsExtended

The VBA code behind the form

```vba
Private Sub Command14_Click()
'this process is done to refresh the subform

'declare a variable as ref
Dim ref As String

ref = ""
'the SourceObject property is to identify the form that is the source of the subform.
'give the name of the subform that needs to be refreshed
ref = frmBookingDetailsExtendedDS.SourceObject
frmBookingDetailsExtendedDS.SourceObject = ref

End Sub
```

12. The Booking Data Entry Form – frmBookingDE

The VBA code behind the form

```vba
Private Sub CheckOutDate_LostFocus()
'This will check if the Checkout Date is Before Checkin Date or not

'Is Checkout Date before Checkin Date
If Me.CheckOutDate <= Me.CheckInDate Then
    'If it is then message box will show up
    MsgBox "CheckOut Date Cannot be before or on the same day as CheckIn Date", vbCritical, "Bookings Data Entry"
    'After the message box is closed, the Checkout Date TextBox will get fouced to re-enter
    Me.CheckOutDate.SetFocus

End If

End Sub
Private Sub Command19_Click()
'The purpose of this is to check whether the user  has filled all the Details or not

'Check if the TextBoxes are not Empty
If Me.BookingID <> "" And Me.GuestID <> "" And Me.CheckInDate <> "" _
    And Me.CheckOutDate <> "" And Me.RoomID <> "" And Me.Combo95 <> "" _
    And Me.NoOfAdults <> "" And Me.NoOfChildren <> "" And Me.NoOfNights <> "" _
    And Me.Active <> "" And Me.Notes <> "" Then
    'If the Textboxes are not Empty, this message will show up
    MsgBox "Booking Details are successfully saved into the database", vbOKOnly, "Bookings Data Entry"
    'Save Record
    DoCmd.Save
    'Close form
    DoCmd.Close

Else
    'If A Textbox is empty, this message will show up. without filling the details the user cannot move forward.
    MsgBox "A textbox is empty. Please provide all the details", vbExclamation, "Bookings Data Entry"

End If

End Sub
```

13. The Payment Details Form – frmPaymentDetailsExtended

Payment

Make Payment	Print Receipts	Refresh Details

	Payment ID	Guest ID	Booking ID	Room ID	Card Holders First Name	Card Holders Last Name	Credit Card Type	Credit Card Number	Expiry D:
	1	Omali	46	10	senith	desilva	Visa	1234 4356 7657 4534	01/12/
*	(New)		(New)						

The VBA Code Behind the form

```
Private Sub Command7_Click()
'this process is done to refresh the subform

'declare a variable as ref
Dim ref As String

ref = ""
'the SourceObject property is to identify the form that is the source of the subform.
'give the name of the subform that needs to be refreshed
ref = frmPaymentDetailsExtendedDS.SourceObject
frmPaymentDetailsExtendedDS.SourceObject = ref

End Sub
```

14. The payment Step one Data Entry Form – frmPaymentStepOneDE

The VBA code Behind the Form

```vba
Private Sub Command19_Click()
'The purpose of this is to check whether the user  has filled all the Details or not

'Check if the TextBoxes are not Empty
If Me.PaymentID <> "" And Me.BookingID <> "" And Me.CardHoldersFirstName <> "" _
    And Me.CardHoldersLastName <> "" And Me.CreditCardType <> "" And Me.CreditCardNumber <> "" _
    And Me.ExpiryDate <> "" Then
    'If the Textboxes are not Empty, this message will show up
    MsgBox "Payment Details are successfully saved into the database", vbOKOnly, "Payment - Step One"
    'Save Record
    DoCmd.Save
    'Enable the command button 20
    Me.Command20.Enabled = True

Else
    'If A Textbox is empty, this message will show up. without filling the details the user cannot move forward.
    MsgBox "A textbox is empty. Please provide all the details", vbExclamation, "Payment - Step One"
    'disable the command button 20
    Me.Command20.Enabled = False

End If

End Sub
```

15. The Payment Step Two Form – frmPaymentStepTwo

For this form there won't be any code written.

16. The Receipts Form – frmReceipts

For this form there won't be any code written.

17. The Extra Charge Details Form – frmExtraChargeExtended

The VBA Code behind the form is

```
Private Sub Command8_Click()
'this process is done to refresh the subform

'declare a variable as ref
Dim ref As String

ref = ""
'the SourceObject property is to identify the form that is the source of the subform.
'give the name of the subform that needs to be refreshed
ref = frmExtraChargeExtendedDS.SourceObject
frmExtraChargeExtendedDS.SourceObject = ref

End Sub
```

18. The Extra Charge Data Entry Form –frmExtraChargeDE

The VBA Code behind the form

```
Private Sub Command19_Click()
'The purpose of this is to check whether the user  has filled all the Details or not

'Check if the TextBoxes are not Empty
If Me.ExtraChargeID <> "" And Me.Item <> "" And Me.Amount <> "" Then
    'If the Textboxes are not Empty, this message will show up
    MsgBox "Extra Charge Details are successfully saved into the database", vbOKOnly, "Add New ExtraCharge"
    'Save Record
    DoCmd.Save
    'Close form
    DoCmd.Close

Else
    'If A Textbox is empty, this message will show up. without filling the details the user cannot move forward.
    MsgBox "A textbox is empty. Please provide all the details", vbExclamation, "Add New ExtraCharge"

End If

End Sub
```

19. The Booking Cancelation Details Form – frmBookingCancelationExtended

The VBA Code behind the Form

```
Private Sub Command5_Click()
'this process is done to refresh the subform

'declare a variable as ref
Dim ref As String

ref = ""
'the SourceObject property is to identify the form that is the source of the subform.
'give the name of the subform that needs to be refreshed
ref = frmBookingCancelationExtendedDS.SourceObject
frmBookingCancelationExtendedDS.SourceObject = ref

End Sub
```

20. The Reports Form – frmReports

For this there won't be any code written.

21. The Guest Report – frmGuestReports

The VBA Code behind the Form

```
Private Sub Command3_Click()
'A combo box is created with the names Teens, Adults and Seniors.
'if combo box is equal to teens
If Me.Combo4 = "Teens" Then
    'open form
    DoCmd.OpenReport "rptAgeTeens", acViewReport
'if combo box is equal to adults
ElseIf Me.Combo4 = "Adults" Then
    'open form
    DoCmd.OpenReport "rptAgeAdults", acViewReport
'if combo box is equal to seniors
ElseIf Me.Combo4 = "Seniors" Then
    'open form
    DoCmd.OpenReport "rptAgeSeniors", acViewReport

Else
    'if the combo box is not selected then message will show up
    MsgBox "Please select the Age category from the drop down list given below", vbOKOnly
    'set focus to the combo box
    Me.Combo4.SetFocus

End If

End Sub
```

22. The Booking Reports – frmBookingReports

For this there won't be any code written

23. The Financial Reports – frmFinancialReports

For this there won't be any code written