

**VISUAL BASIC PROJECT
OF THE BOOKING SYSTEM**

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HNC SOFTWARE ENGINEERING (FAST TRACK).

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ASSIGNMENT

A College requires a booking application for the Computer rooms in the college.

The application needs to record the Tutor who wants to book the room, the course code for the class, the date of the booking, the start and finish times of the booking, the room number, the number of computers in the booked room that are required (this is dependent on the number of students in the class) and any specialist software required for a particular class i.e. Visual Basic, Select CASE Tool, Flash etc.

Available Information:

- Rooms T100, T229, T201, T232 each have 25 computers
- Rooms T217, T212, T211, T221 each have 20 computers
- Rooms T227, T223, T152 each have 15 computers

- Course Code HCCISX0A – 21 Students
- Course Code ZHMMM1A – 23 Students
- Course Code HCCISE1A – 18 Students
- Course Code HCCISE2A – 13 Students

- Course Code HCCISX0A – needs Visual Basic, Select and Flash
- Course Code ZHMMM1A – needs Visual Basic and Flash
- Course Code HCCISE1A – needs Visual Basic
- Course Code HCCISE2A – needs Visual Basic, Select and Flash

The application needs to record this information onto disc for audit purposes and to provide a printout of the individual bookings for the tutor.

Validation needs to be included in the application.

SYSTEM REQUIREMENTS

- ❖ Show the tutor the number of computer available and software available on the room they want to book.

- ❖ Show the date on the text file and on the print out for the tutor.

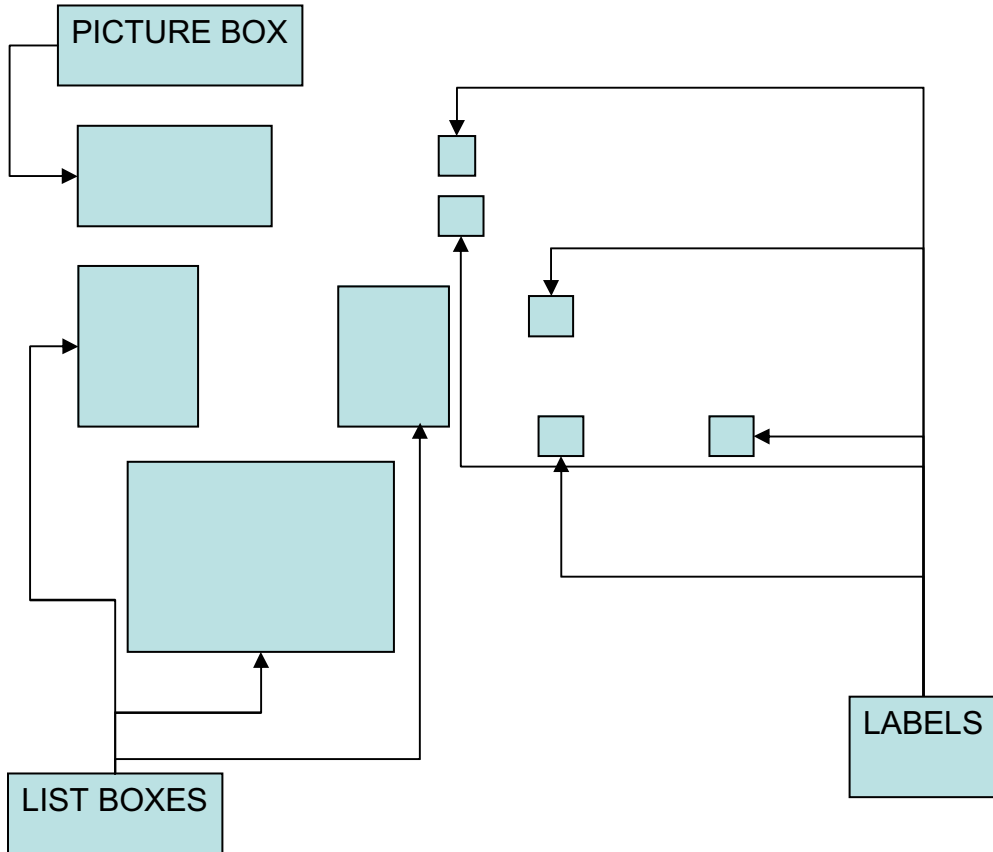
- ❖ Stop the user from booking on days that have already passed and time that has already passed.

- ❖ Create a text file with the information enter on the system.

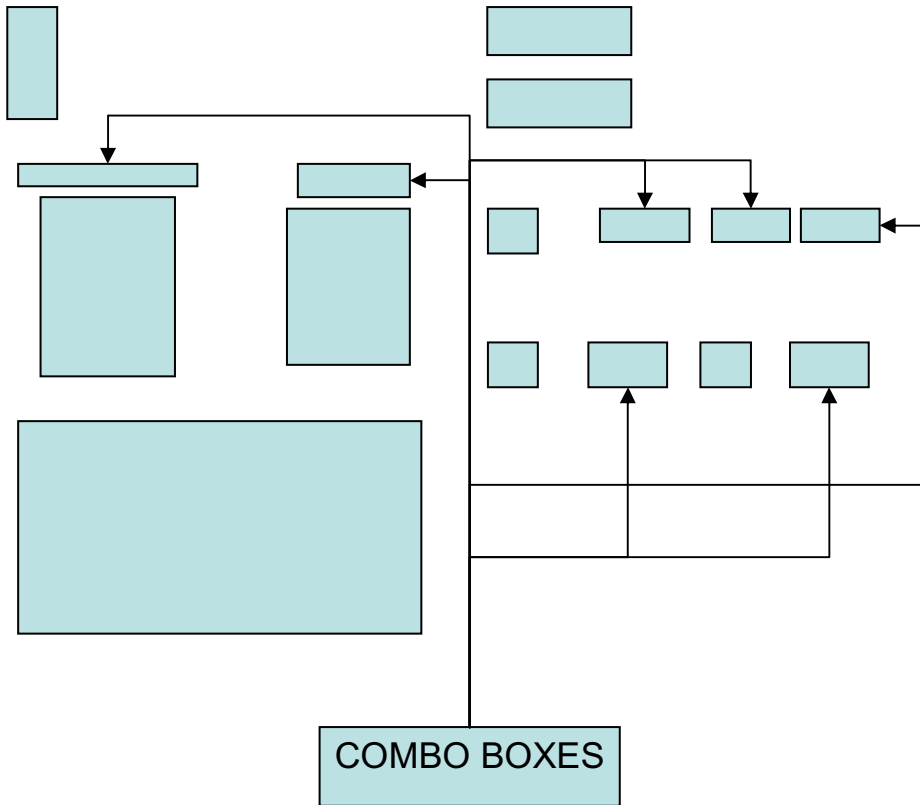
- ❖ Produce a print out for the tutor.

DESIGN LAYOUT

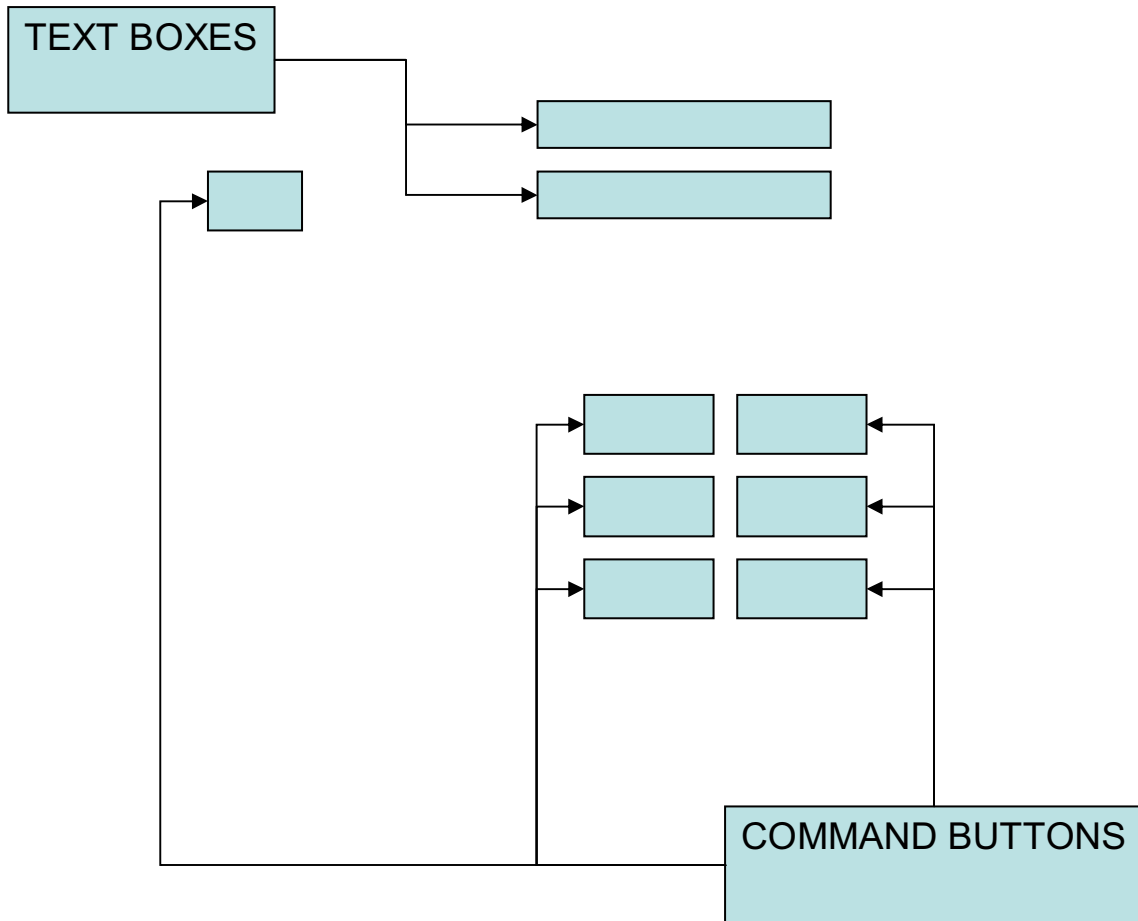
- Here we can identify the picture box, labels and list boxes.



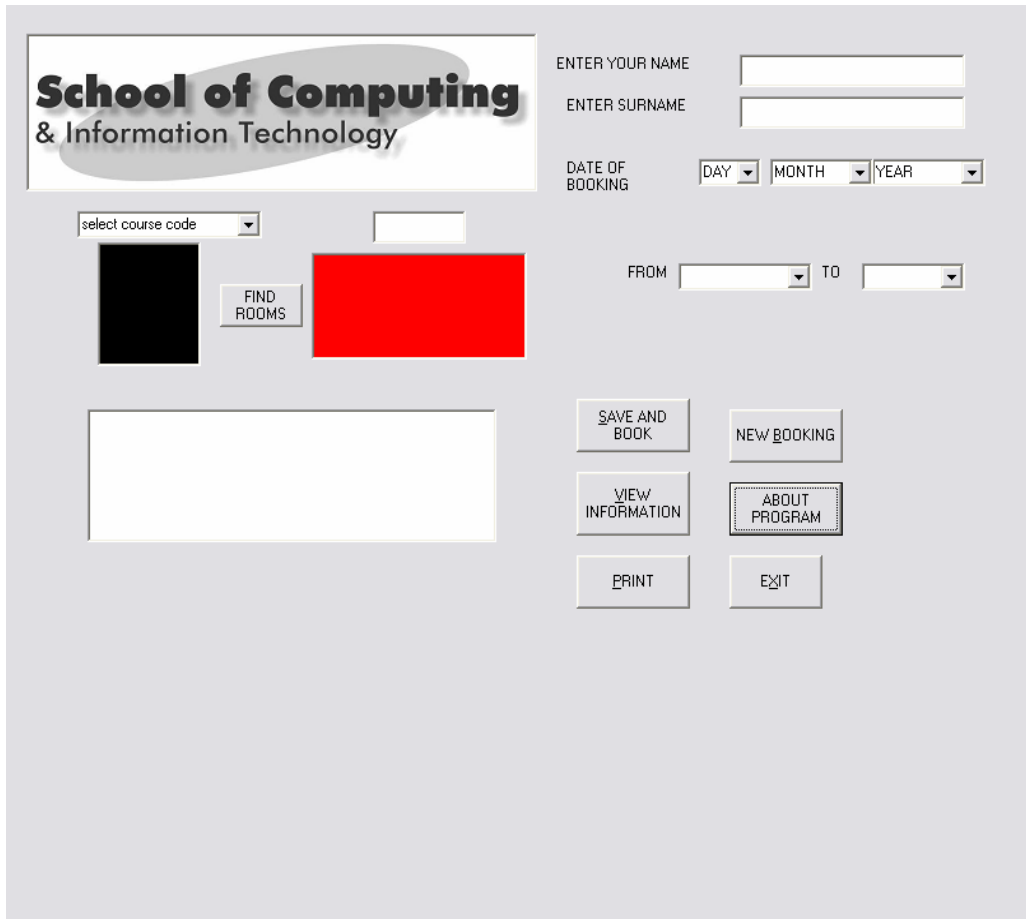
- Here we can identify the combo boxes on the layout.



- Here we can identify the text boxes and the command buttons.



- Here we can identified the user interface base on the visual basic project



STAGE 1

INPUT, PROCESS, OUTPUT

INPUT = Course code, room number, name, surname, day, month, year, start time and finish and time.

PROCESS: If course code = valid/correct and

Room number = valid/correct and

Name = valid/correct and

Surname = valid/correct and

Day = valid/correct and

Month = valid/correct and

Year = valid/correct and

Start time = valid/correct and

Finish time = valid/correct Then

Continue and save the booking to a text file and print out a copy of the booking for the user as a Friendly layout, else show a message box asking the user to enter correctly all the information needed to process the application.

OUTPUT: Show the information on the user interface could be as a text box or a list box to the user and print out a copy of the booking.

STAGE 2

PROCESS

If course code = valid/correct and

Room number = valid/correct and

Name = valid/correct and

Surname = valid/correct and

Day = valid/correct and

Month = valid/correct and

Year = valid/correct and

Start time = valid/correct and

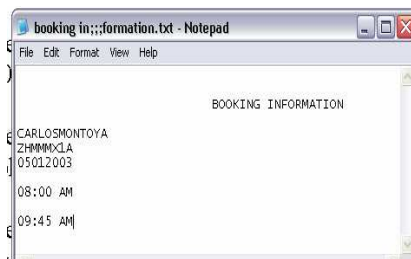
Finish time = valid/correct Then

Continue and save the booking to a text file and print out a copy of the booking for the user as Friendly layout Else show a message box asking the user to correctly enter the information needed to process the application.

PROBLEMS WITH MY DESIGN AND CODE

I have been working through my design and the code behind the design and I have found a few problems:

- a) If the user does not enter information in more that two different places the messages box comes up one after the other. I want to write a code that will stop this happening for example; if the user does not enter his or her name, I do not want the user to continue until that text box has been fill.
- b) The user can book a room in a time that has already passed. For example, start time 10:00 am and finish time 9:00 am.
- c) The user can book a room with the start time and finish time being the same. Example start time 10:00 am and finish time 10:00 am.
- d) The user can still book a room on a date that has already passed. Example on January 5th 2003.



- e) The user can write anything on the combo boxes, day, month, year, start time , finish time and course code where all the information has been enter on the properties.

School of Computing & Information Technology

ENTER YOUR NAME: CARLOS
ENTER SURNAME: CARLOS
DATE OF BOOKING: CAR CARLOS CARLOS
FROM: CARLOS TO: CARLOS

FIND ROOMS

SAVE AND BOOK NEW BOOKING
VIEW INFORMATION ABOUT PROGRAM
PRINT EXIT

```
name: CARLOS CARLOS  
course code: CARLOS  
room number: CARLOS  
date: CARLOS CARLOS CARLOS  
from: CARLOS  
to: CARLOS  
  
thank you for using this service
```

f) The print out is not easy to read, the layout is all wrong and the user will not understand it.

```
BOOKING INFORMATION  
CARLOSMONTOYA  
ZHMMDCLA  
05012003  
08:00 AM  
09:45 AM
```

g) I want the user to be able to see the date.

h) I want the user to be able to see the time.

i) The information the user is entering into the system is not appearing on the bookinfo list box.

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- j) There is not message box that ask the user if the information they enter is correct.
- k) I do not think I need the information command button to find out what rooms are available with a course code.
- l) I found a problem if the user wants to make a new booking.
- m) There should be a drop down menu on the form.

SOLUTIONS TO THE PROBLEMS I FOUND ON MY DESIGN

- a) **If the user does not enter information in more that two different places the messages box comes up one after the other. I want to write a code that will stop this happening for example; if the user does not enter his or her name, I do not want the user to continue until that text box has been fill.**

- ✓ The way I found to stop the messages boxes appearing one after the other in to write **exit sub** on the code after the message box and before the end if.

```
If coursecode.text = "" then  
Msgbox "please select a course code"  
Exit sub  
End if
```

- b) **The user can book a room in a time that has already passed. For example, start time 10:00 am and finish time 9:00 am.**

- ✓ The way I solve this by creating an if statement where the programs ask itself if start time is greater than finish time,

```
If Combohour.Text > Combohours.Text Then  
MsgBox ("THIS ROOM CAN NOT BE BOOK, THIS TIME HAS ALREADY PASS  
OR YOU ENTERED AN INCORRECT TIME PLEASE CHECK AGAIN "),  
(vbCritical)  
Exit Sub  
End If
```

- c) **The user can book a room with the start time and finish time being the same. Example start time 10:00 am and finish time 10:00 am.**

- ✓ The way I solve this problem was by written a code as and if...then....end if statement where the programs ask itself if the start time is the same as the finish time if the answer is yes a message box will be display asking the user to check the start/finish time.

- **The code for this is the following:**

```
If Combohour.Text = Combohours.Text Then  
MsgBox ("ANY ROOM MUST BE BOOK FOR MORE THAN 15 MINUTES"),  
(vbCritical)  
Exit Sub  
End If
```

- d) The user can still book a room on a date that has already passed.
Example on January 5th 2003.**

✓ I am sure that there is an easier way to do this but personally, I found this one very helpful.

The way I resolved this was by creating a five different labels but on this case I'm only going to use three;

For the day, a label call lblday.

For the month, a label call lblmonth.

For the year, a label call lblyear.

- **In addition, the code for the labels is in a timer. The code for the timer is the following:**

```
Private Sub Timer1_Timer()  
lblday.Caption = Format$(Date, "d")  
lblmonth.Caption = Format$(Date, "mm")  
lblyear.Caption = Format$(Date, "yyyy")  
End Sub
```

- **And the code to stop the user using a days that has already pass for a booking is the following:**

```
If comboday.Text < lblday.Caption And combomonth.Text = lblmonth.Caption  
And _  
comboyear.Text = lblyear.Caption Or comboday.Text = lblday.Caption And _  
comboyear.Text = lblyear.Caption And combomonth.Text < lblmonth.Caption _  
Or comboyear.Text = lblyear.Caption And combomonth.Text < lblmonth.Caption
```

```

And comboday.Text < lblday.Caption Or comboday.Text > lblday.Caption And
combomonth.Text _
< lblmonth.Caption And comboyear.Text = lblyear.Caption Then
MsgBox "WRONG DATE ENTERED OR WRONG TIME, PLEASE TRY AGAIN"
Exit Sub
End If

```

- **After I wrote that code the validation for the date still does not work.**

I'm going to try a different set of code to compare each label:

```

If Val(comboday.Text) < Val(lblday.Caption) And Val(combomonth.Text) _
<= Val(lblmonth.Caption) _
Or Val(comboday.Text) = Val(lblday.Caption) And _
Val(combomonth.Text) < Val(lblmonth.Caption) _
Or Val(combomonth.Text) < Val(lblmonth.Caption) _
And Val(comboday.Text) < Val(lblday.Caption) Then
MsgBox "WRONG DATE ENTERED, PLEASE TRY AGAIN"
Exit Sub
End If

```

This code must be on the command buttons that the user is more likely to use.

- e) **The user can write anything on the combo boxes, day, month, year, start time , finish time and course code where all the information has been enter on the properties.**

- ✓ The way I found to stop this from happening was telling the program what is suppose to be on each combo box and if the programs finds something that has not been specified on the code a message box will be display to the user telling them that the information he/she just enter is incorrect.

- **The code for the course code combo box is the following;**

```

If coursecode.Text = "ZHMMM1A" Or coursecode.Text = "HCCISX0A" _
Or coursecode.Text = "HCCISE1A" Or coursecode.Text = "HCCISE2A" Or _
coursecode.Text = "select course code" Then
Else
coursecode.Text = "select course code"

```

```
MsgBox ("NO OTHER INFORMATION CAN BE ENTER, PLEASE SELECT A  
COURSE CODE FROM THE LIST"), (vbCritical)
```

```
Exit Sub
```

```
End If
```

○ **The code for the day combo box is the following;**

```
If comboday.Text = "01" Or comboday.Text = "02" Or comboday.Text = "03"  
Or comboday.Text = "04" Or comboday.Text = "05" Or comboday.Text =  
"06" Or comboday.Text = "07" Or comboday.Text = "08" Or comboday.Text  
_="09" Or comboday.Text = "10" Or comboday.Text = "11" Or  
comboday.Text = "12" Or comboday.Text = "13" Or  
Or comboday.Text = "15" Or comboday.Text = "16" Or comboday.Text =  
=comboday.Text = "14" or "17" Or comboday.Text = "18" Or comboday.Text =  
"19" Or comboday.Text = "20" Or comboday.Text = "21" Or comboday.Text =  
"22" Or comboday.Text = "23" Or comboday.Text = "24" Or comboday.Text =  
"25" Or _ comboday.Text = "26" Or comboday.Text = "27" Or comboday.Text =  
"28" Or _ comboday.Text = "29" Or comboday.Text = "30" Or comboday.Text =  
"31" Then
```

```
Else: MsgBox (" NO OTHER INFORMATION CAN BE ENTER, PLEASE  
SELECT A DAY FROM THE LIST FROM THE LIST"), (vbCritical)
```

```
comboday.Text = "DAY"
```

```
Exit Sub
```

```
End If
```

○ **The code for the month combo box is the following;**

```
If combomonth.Text = "01" Or combomonth.Text = "02" Or combomonth.Text =  
"03"  
_ Or combomonth.Text = "04" Or combomonth.Text = "05" Or combomonth.Text =  
"06"  
_ Or combomonth.Text = "07" Or combomonth.Text = "08" Or combomonth.Text =  
"09"  
_ Or combomonth.Text = "10" Or combomonth.Text = "11" Or combomonth.Text =  
"12" Then
```

Else: MsgBox ("NOT NEW INFORMATION CAN BE ENTERED, PLEASE SELECT ONE OF THE MONTH ON THE LIST"), (vbCritical)

combomonth.Text = "MONTH"

Exit Sub
End If

○ **The code for the year combo box is the following:**

If comboyear.Text = "2003" Or comboyear.Text = "2004" Or comboyear.Text = "2005"
Or comboyear.Text = "2006" Or comboyear.Text = "2007" Then
Else: MsgBox ("NOT NEW INFORMATION CAN BE ENTERED, PLEASE SELECT ONE OF THE YEARS OF THE LIST"), (vbCritical)

comboyear.Text = "YEAR"
Exit Sub
End If

○ **The code for the start time combo box is the following;**

If Combohour.Text = "08:00 AM" Or Combohour.Text = "08:15 AM" Or
Combohour.Text = "08:30 AM"
Or Combohour.Text = "08:45 AM" Or Combohour.Text = "09:00 AM" Or
Combohour.Text = "09:15 AM"
Or Combohour.Text = "09:30 AM" Or Combohour.Text = "09:45 AM" Or
Combohour.Text = "10:00 AM"
Or Combohour.Text = "10:15 AM" Or Combohour.Text = "10:30 AM" Or
Combohour.Text = "10:45 AM"
Or Combohour.Text = "11:00 AM" Or Combohour.Text = "11:15 AM" Or
Combohour.Text = "11:30 AM"
Or Combohour.Text = "11:45 AM" Or Combohour.Text = "12:00 PM" Or
Combohour.Text = "12:15 PM"
Or Combohour.Text = "12:30 PM" Or Combohour.Text = "12:45 PM" Or
Combohour.Text = "13:00 PM"

```

Or Combohour.Text = "13:15 PM" Or Combohour.Text = "13:30 PM" Or
Combohour.Text = "13:45 PM" _
Or Combohour.Text = "14:00 PM" Or Combohour.Text = "14:15 PM" Or
Combohour.Text = "14:30 PM" _
Or Combohour.Text = "14:45 PM" Or Combohour.Text = "15:00 PM" Or
Combohour.Text = "15:15 PM" _
Or Combohour.Text = "15:30 PM" Or Combohour.Text = "15:45 PM" Or
Combohour.Text = "16:00 PM" _
Or Combohour.Text = "16:15 PM" Or Combohour.Text = "16:30 PM" Or
Combohour.Text = "16:45 PM" _
Or Combohour.Text = "17:00 PM" Or Combohour.Text = "17:15 PM" Or
Combohour.Text = "17:30 PM" _
Or Combohour.Text = "17:45 PM" Or Combohour.Text = "18:00 PM" Or
Combohour.Text = "18:15 PM" _
Or Combohour.Text = "18:30 PM" Or Combohour.Text = "18:45 PM" Or
Combohour.Text = "19:00 PM" _
Or Combohour.Text = "19:15 PM" Or Combohour.Text = "19:30 PM" Then
Else
Combohour.Text = ""
MsgBox ("NOT INFORMATION CAN BE ENTERED, PLEASE SELECT ANY
HOUR ON THE LIST"), (vbCritical)
Exit Sub
End If

```

○ **The code for the finish time combo box is the following:**

```

If Combohours.Text = "09:00 AM" Or Combohours.Text = "09:15 AM" Or
Combohours.Text = "09:30 AM" _
Or Combohours.Text = "09:45 AM" Or Combohours.Text = "10:00 AM" Or
Combohours.Text = "10:15 AM" _
Or Combohours.Text = "10:30 AM" Or Combohours.Text = "10:45 AM" Or
Combohours.Text = "11:00 AM" _
Or Combohours.Text = "11:15 AM" Or Combohours.Text = "11:30 AM" Or
Combohours.Text = "11:45 AM" _
Or Combohours.Text = "12:00 AM" Or Combohours.Text = "12:15 AM" Or
Combohours.Text = "12:30 AM" _
Or Combohours.Text = "12:45 AM" Or Combohours.Text = "13:00 PM" Or
Combohours.Text = "13:15 PM" _
Or Combohours.Text = "13:30 PM" Or Combohours.Text = "13:45 PM" Or
Combohours.Text = "14:00 PM" _
Or Combohours.Text = "14:15 PM" Or Combohours.Text = "14:30 PM" Or
Combohours.Text = "14:45 PM" _
Or Combohours.Text = "15:00 PM" Or Combohours.Text = "15:15 PM" Or
Combohours.Text = "15:30 PM" _

```

```
Or Comboboxes.Text = "15:45 PM" Or Comboboxes.Text = "16:00 PM" Or  
Comboboxes.Text = "16:15 PM"  
Or Comboboxes.Text = "16:30 PM" Or Comboboxes.Text = "16:45 PM" Or  
Comboboxes.Text = "17:00 PM"  
Or Comboboxes.Text = "17:15 PM" Or Comboboxes.Text = "17:30 PM" Or  
Comboboxes.Text = "17:45 PM" Or Comboboxes.Text = "18:00 PM" Or  
Comboboxes.Text = "18:15 PM"  
Or Comboboxes.Text = "18:30 PM" Or Comboboxes.Text = "18:45 PM" Or  
Comboboxes.Text = "19:00 PM"  
Or Comboboxes.Text = "19:15 PM" Or Comboboxes.Text = "19:30 PM" Or  
Comboboxes.Text = "19:45 PM"  
Or Comboboxes.Text = "20:00 PM" Or Comboboxes.Text = "20:15 PM" Or  
Comboboxes.Text = "20:30 PM"  
Or Comboboxes.Text = "21:00 PM" Then
```

```
Else  
Comboboxes.Text = ""  
MsgBox ("NOT INFORMATION CAN BE ENTERED, PLEASE SELECT ANY  
HOUR ON THE LIST"), (vbCritical)  
Exit Sub  
End If
```

f) The print out is not easy to read, the layout is all wrong and the user will not understand it.

- ✓ On my print out there were no spaces between words or number for example I want the name to be all on one line but with the code I am using right now the name will look like this:

CarlosMontoya.

The date will look like this:

50012004

I want to create spaces between the lines and I want to insert things like, Name, course code, room number, start time etc next to a just above the appropriate information.

I also want the user to be able to see the number of computer and the software available in the room he or she is booking. To achieve this I must create an if statement if.....then.....end if

Printer.print; vbCrLf is use as one line space on text file.

+ " " + is use as a space between words or number.

I also declare where I want to use bold words using false or true.

A message box before printing, the message box will remind the user to save or the information will not be process.

The code I will use:

MsgBox "DO NOT FORGET TO SAVE OR YOUR REQUEST WILL NOT BE PROCESS"

```
Printer.CurrentX = 4400
Printer.CurrentY = 1440
Printer.FontName = "ARIAL"
Printer.FontSize = "15"
Printer.FontUnderline = True
Printer.Print "BOOKING INFORMATION"
Printer.FontSize = 10
Printer.Print ; vbCrLf
Printer.Print ; vbCrLf
Printer.FontUnderline = False
Printer.FontBold = False
Printer.Print "/////////////////////////////////////"
Printer.Print ; vbCrLf
Printer.Print ; vbCrLf
Printer.Print "/////////////////////////////////////"
Font.Size = 28
Printer.FontBold = True
Printer.Print ; vbCrLf
Printer.Print Date
Printer.FontBold = False
Printer.Print ; vbCrLf
Font.Size = "22"
```

```

Printer.FontBold = True
Printer.Print " NAME: "
Printer.FontBold = False
Printer.Print ; TextNAME.Text + " " + TextSURNAME.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print " COURSE CODE: "
Printer.FontBold = False
Printer.Print ; coursecode.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "ROOM NUMBER: "
Printer.FontBold = False
Printer.Print ; roomnumber.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "DATE: "
Printer.FontBold = False
Printer.Print ; comboday.Text + " " + combomonth.Text + " " + comboyear.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "FROM: "
Printer.FontBold = False
Printer.Print ; Combohour.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "TO: "
Printer.FontBold = False
Printer.Print ; Combohours.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "NUMBER OF COMPUTER AVAILABLE"
Printer.Print ; vbCrLf
Printer.FontBold = False
If roomnumber.Text = "T100" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T229" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T201" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T232" Then
Printer.Print "25 COMPUTERS"
End If

```



```
If roomnumber.Text = "T217" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T212" Then
Printer.Print "20 COMPUTERS"
End If
If roomnumber.Text = "T211" Then
Printer.Print "20 COMPUTERS"
End If
If roomnumber.Text = "T221" Then
Printer.Print "20 COMPUTERS"
End If
If roomnumber.Text = "T227" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T223" Then
Printer.Print "15 COMPUTERS"
End If
If roomnumber.Text = "T152" Then
Printer.Print "15 COMPUTERS"
End If
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "SOFTWARE AVAILABLE: "
Printer.FontBold = False
If roomnumber.Text = "T100" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T229" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T201" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
```

```
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T232" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T217" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T212" Then
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T211" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
End If
If roomnumber.Text = "T221" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
End If
If roomnumber.Text = "T227" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T223" Then
Printer.Print ; vbCrLf
```

```

Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T152" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
Printer.Print ; vbCrLf
Printer.Print "/////////////////////////////////////"
Printer.Print ; vbCrLf
Printer.Print ; vbCrLf
Printer.Print "/////////////////////////////////////"

Printer.EndDoc

Close #1
    
```

g) I want the user to be able to see the date.

- ✓ I did this a through a label as I already have a timer I just add a line of code to the timer and that will show the label with the time on the interface.

The piece of code I am going to use is:

```
LBLDATE1.Caption = Format$(Date, "d - mm - yyyy")
```

h) I wan the user to be able to see the time.

- ✓ I will do the same I did with the date but format it as a the time

The piece of code I am going to use is:

```
lbltime.Caption = Format$(Time, "HH:MM")
```

i) The information the user is entering into the system is not appearing on the bookinfo list box.

- ✓ To solve this problem I used a code to add item on the list box call bookinfo, this code will be place on all the command button the user is more likely to use.

The code is the following:

```
BOOKINFO.Clear
```

```
BOOKINFO.AddItem "NAME: " + TextNAME.Text + " " + TextSURNAME
BOOKINFO.AddItem "COURSE CODE: " + coursecode.Text
BOOKINFO.AddItem "ROOM NUMBER: " + roomnumber.Text
BOOKINFO.AddItem "DATE: " + comboday.Text + " " + combomonth + " " +
comboyear
BOOKINFO.AddItem "FROM: " + Combohour.Text
BOOKINFO.AddItem "TO: " + Combohours.Text
BOOKINFO.AddItem "NUMBER OF COMPUTER AND SOFTWARE
AVAILABLE: "
```

j) There is not message box that ask the user if the information they enter is correct.

- ✓ All I have to do to achieve this is a message box with ok and a cancel button, this code will be place on the print command and the save command.

The code I am going to use is the following:

```
If MsgBox("IS THIS INFORMATION CORRECT?" + vbCrLf + _
"NAME: " + TextNAME.Text + " " + TextSURNAME.Text _
+ vbCrLf + " COURSE CODE: " + coursecode.Text _
+ vbCrLf + " ROOM NUMBER: " + roomnumber.Text _
```

```

+ vbCrLf + "DATE: " + comboday.Text + " " + combomonth + " " +
comboyear.Text _
+ vbCrLf + "FROM: " + Combohour _
+ vbCrLf + "TO: " + Combohours, vbOKCancel, _
"Save Record") = vbOK Then
Dim filenumber As Integer
filenumber = 1
Open "C:\BOOKING INFORMATION.TXT" For Append As #1
Print #1, vbCrLf
Print #1, " THIS ROOM HAS BEEN BOOKED"
Print #1, Date
Call Shell("NOTEPAD.EXE C:\BOOKING INFORMATION.TXT")
End if

```

k) I do not think I need the information command button to find out what rooms are available with a course code.

- The way to remove the information command button without altering the process of the program will be by creating four ifthen...elseif....end if statements as a click event, that way when the user selects a course code that will automatically show all the rooms number available .

The code to do this is the following:

```

Private Sub coursecode_Click()
If coursecode.Text = "HCCISX0A" Then HCCISX04
rooms1.Clear
rooms1.AddItem "T100"
Rooms1.AddItem "T229"
rooms1.AddItem "T201"
rooms1.AddItem "T232"
ElseIf coursecode.Text = "ZHMMM1A" Then
rooms1.Clear
rooms1.AddItem "T100"
rooms1.AddItem "T229"
rooms1.AddItem "T201"
rooms1.AddItem "T232"
ElseIf coursecode.Text = "HCCISE1A" Then
rooms1.Clear
rooms1.AddItem "T217"
rooms1.AddItem "T212"
rooms1.AddItem "T211"
rooms1.AddItem "T221"
rooms1.AddItem "T100"
rooms1.AddItem "T229"
rooms1.AddItem "T201"

```

```
rooms1.AddItem "T232"
ElseIf coursecode.Text = "HCCISE2A" Then
rooms1.Clear
rooms1.AddItem "T227"
rooms1.AddItem "T223"
rooms1.AddItem "T152"
End IF
End Sub
```

I) I found a problem if the user wants to make a new booking.

If the same user or a new user wants to make a new booking there is a problem the code for a new booking is:

```
Private Sub cmdreset_Click

Coursecode.text = "select course code"
Roomnumber.text = ""
textNAME.text = ""
textSURNAME.text = ""
comboday.text = "DAY"
combomonth.text = "MONTH"
comboyear.text = "YEAR"
combohour.text = ""
combohours.text = ""
BOOKINFO.clear
Rooms1.clear
Des1.clear
Coursecode.SetFocus
End Sub
```

After the user has clicked the new booking command all the message boxes that tell the user that there is some information missing stop working.

It looks like the program is looking for some kind of character on the text boxes and combo boxes.

The way that I stop this from happening is by reviewing the code to check all the information has been enter, the old codes is:

```
If roomnumber.Text = "" Then
MsgBox ("PLEASE ENTER A ROOM NUMBER"), (vbCritical)
End If
```

The new code that I am going to use on this project is:

```
If Len(roomnumber.Text) = 0 Then
MsgBox ("PLEASE ENTER A ROOM NUMBER"), (vbCritical)
Exit sub
End If
```

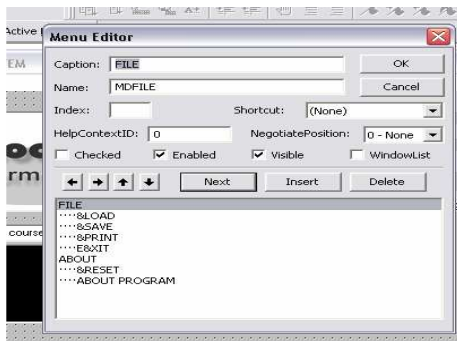
This code means that if the characters on the room number text box is equal to zero then show a message box asking the user to select a room number.

Including the Exit Sub just before the End If, as I explained before this will stop the message boxes appearing one after the other.

m) There should be a drop down menu on the form.

looking at my design I see that I drop down menu would make look nicer but at the same time it would help the user if he wants to use any of those commands.

The best way I found to do this by going to the toolbar menu on the visual basic program and find Menu Editor in there you write the mane and the caption you want to see the user to see.



It is very important to give meanfully names to this commands and the same thing with the all the other control on our application.

The code for the drop down menu call File is the fowilling:

```
Private Sub MDLOAD_Click()
BOOKING_SYSTEM!cmdload = True
End Sub
Private Sub MDPRINT_Click()
BOOKING_SYSTEM!cmdprint = True
End Sub
Private Sub MDRESET_Click()
BOOKING_SYSTEM!cmdreset = True
End Sub
```

```
Private Sub MDSAVE_Click()  
BOOKING_SYSTEM!cmdsave = True  
End Sub
```

And the codes from the drop down menu call About is the following:

```
Private Sub MDRESET_Click()  
BOOKING_SYSTEM!cmdreset = True  
End Sub
```

```
Private Sub MDSAVE_Click()  
BOOKING_SYSTEM!cmdsave = True  
End Sub
```


FINAL CODES

❖ **CODES OR PROCESS FOR THE coursecode COMBO BOX**

```
Private Sub coursecode_Click()  
If coursecode.Text = "HCCISX0A" Then  
  
rooms1.Clear  
rooms1.AddItem "T100"  
rooms1.AddItem "T229"  
rooms1.AddItem "T201"  
rooms1.AddItem "T232"  
  
Elseif coursecode.Text = "ZHMMM1A" Then  
  
rooms1.Clear  
rooms1.AddItem "T100"  
rooms1.AddItem "T229"  
rooms1.AddItem "T201"  
rooms1.AddItem "T232"  
  
Elseif coursecode.Text = "HCCISE1A" Then  
  
rooms1.Clear  
rooms1.AddItem "T217"  
rooms1.AddItem "T212"  
rooms1.AddItem "T211"  
rooms1.AddItem "T221"  
rooms1.AddItem "T100"  
rooms1.AddItem "T229"  
rooms1.AddItem "T201"  
rooms1.AddItem "T232"  
  
Elseif coursecode.Text = "HCCISE2A" Then  
  
rooms1.Clear  
rooms1.AddItem "T227"  
rooms1.AddItem "T223"  
rooms1.AddItem "T152"  
  
End If  
End Sub
```

❖ **CODE IN ROOMS 1 LIST BOX**

```
Private Sub rooms1_Click()  
roomnumber.Text = rooms1.Text  
End Sub
```

❖ **CODES IN THE roomnumber TEXT BOX**

THIS CODE IS TO SHOW THE NUMBER OF COMPUTERS 'THE SOFTWARE INSTALL ON THOSE COMPUTERS AND THE SOFTWARE INSTALL ON THOSE COMPUTERS.

```
Private Sub roomnumber_Change()
```

```
If roomnumber.Text = "T100" Then  
des1.Clear  
des1.AddItem "25 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
End If
```

```
If roomnumber.Text = "T229" Then  
des1.Clear  
des1.AddItem "25 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
End If
```

```
If roomnumber.Text = "T201" Then
```

```
des1.Clear  
des1.AddItem "25 COMPUTERS"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
des1.AddItem "VISUAL BASIC"  
End If
```

```
If roomnumber.Text = "T232" Then
```

```
des1.Clear  
des1.AddItem "25 COMPUTERS"  
des1.AddItem "FLASH"  
des1.AddItem "VISUAL BASIC"  
des1.AddItem "SELECT"  
End If
```

```
If roomnumber.Text = "T217" Then
```

```
des1.Clear  
des1.AddItem "20 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
End If
```

```
If roomnumber.Text = "T212" Then
```

```
des1.Clear  
des1.AddItem "20 COMPUTERS"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
End If
```

```
If roomnumber.Text = "T211" Then
```

```
des1.Clear  
des1.AddItem "20 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
End If
```

```
If roomnumber.Text = "T221" Then
```

```
des1.Clear  
des1.AddItem "20 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
End If
```

```
If roomnumber.Text = "T227" Then
```

```
des1.Clear
```

```
des1.AddItem "15 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"
```

```
End If
```

```
If roomnumber.Text = "T223" Then
```

```
des1.Clear  
des1.AddItem "15 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
End If
```

```
If roomnumber.Text = "T152" Then
```

```
des1.Clear  
des1.AddItem "15 COMPUTERS"  
des1.AddItem "VISUAL BASIC 6.0"  
des1.AddItem "SELECT"  
des1.AddItem "FLASH"  
End If
```

```
End Sub
```

❖ **CODES IN THE cmdsave, cmdload, cmdprint COMMAND BUTTON**

- **Codes to check that all the information has been entered correctly**

```
Private Sub cmdsave_Click()
```

```
If Len(coursecode.Text) = 0 Then  
MsgBox ("PLEASE ENTER COURSE CODE"), (vbCritical)  
Exit Sub  
End If
```

```
If coursecode.Text = "select course code" Then
MsgBox ("PLEASE ENTER COURSE CODE"), (vbCritical)
Exit Sub
End If
```

```
If coursecode.Text = "ZHMMM1A" Or coursecode.Text = "HCCISX0A" _
Or coursecode.Text = "HCCISE1A" Or coursecode.Text = "HCCISE2A" Or _
coursecode.Text = "select course code" Then
Else
coursecode.Text = "select course code"
MsgBox ("NO OTHER INFORMATION CAN BE ENTER, PLEASE SELECT A
COURSE CODE FROM THE LIST"), (vbCritical)
Exit Sub
End If
```

```
If Len(roomnumber.Text) = 0 Then
MsgBox ("PLEASE SELECT A ROOM NUMBER FROM THE LIST"), (vbCritical)
Exit Sub
End If
```

```
If Len(TextNAME.Text) = 0 Then
MsgBox ("PLEASE ENTER YOUR NAME"), (vbCritical)
TextNAME.SetFocus
Exit Sub
End If
```

```
If Len(TextSURNAME.Text) = 0 Then
MsgBox ("PLEASE ENTER YOUR SURNAME"), (vbCritical)
TextSURNAME.SetFocus
Exit Sub
End If
```

TO CHECK THAT THE USER DOES NOT ENTER AN INVALID DATE TO BOOKED A ROOM

```
If Val(comboday.Text) < Val(lblday.Caption) And Val(combomonth.Text) _
<= Val(lblmonth.Caption) _
Or Val(comboday.Text) = Val(lblday.Caption) And _
```

```

Val(combomonth.Text) < Val(lblmonth.Caption) _
Or Val(combomonth.Text) < Val(lblmonth.Caption) _
And Val(comboday.Text) < Val(lblday.Caption) Then
MsgBox "WRONG DATE ENTERED, PLEASE TRY AGAIN"
Exit Sub
End If

```

```

If comboday.Text = "DAY" Or comboday.Text = "" Or combomonth.Text =
"MONTH" Or
combomonth.Text = "" Or comboyear.Text = "YEAR" Or comboyear.Text = ""
Then
MsgBox ("PLEASE ENTER A CORRECT DATE"), (vbCritical)
Exit Sub
End If

```

THIS CODE IS TO LET THE USER KNOW THAT ALL ROOMS MUST BE BOOKED A AT LEAST A DAY BEFORE IS 'NEEDED

```

If Val(comboday.Text) = Val(lblday.Caption) And Val(combomonth.Text) =
Val(lblmonth.Caption) _
And Val(comboyear.Text) = Val(lblyear.Caption) Then
MsgBox ("ALL ROOMS MUST BE BOOK AT LEAST ONE DAY BEFORE IT IS
NEEDED IF YOU NEED MORE INFORMATION OR NEED TO USE A ROOM
BUT YOU HAVE NOT BOOKED IT, PLEASE ASK A MEMBER OF OUR
STAFF"), (vbCritical)
Exit Sub
End If

```

```

If comboday.Text = "01" Or comboday.Text = "02" Or comboday.Text = "03" Or
comboday.Text _
= "04" Or comboday.Text = "05" Or comboday.Text = "06" Or comboday.Text =
"07" Or comboday.Text _
= "08" Or comboday.Text = "09" Or comboday.Text = "10" Or comboday.Text =
"11" Or _
comboday.Text = "12" Or comboday.Text = "13" Or comboday.Text = "14" Or
comboday.Text _
= "15" Or comboday.Text = "16" Or comboday.Text = "17" Or comboday.Text =
"18" Or comboday.Text _
= "19" Or comboday.Text = "20" Or comboday.Text = "21" Or comboday.Text =
"22" Or
comboday.Text = "23" Or comboday.Text = "24" Or comboday.Text = "25" Or
comboday.Text _
= "26" Or comboday.Text = "27" Or comboday.Text = "28" Or comboday.Text =
"29" Or comboday.Text _

```

```
= "30" Or comboday.Text = "31" Then
```

```
Else: MsgBox (" NO OTHER INFORMATION CAN BE ENTER, PLEASE  
SELECT A DAY FROM THE LIST FROM THE LIST"), (vbCritical)
```

```
comboday.Text = "DAY"  
Exit Sub  
End If
```

```
If combomonth.Text = "01" Or combomonth.Text = "02" Or combomonth.Text =  
"03" _  
Or combomonth.Text = "04" Or combomonth.Text = "05" Or combomonth.Text =  
"06" _  
Or combomonth.Text = "07" Or combomonth.Text = "08" Or combomonth.Text =  
"09" _  
Or combomonth.Text = "10" Or combomonth.Text = "11" Or combomonth.Text =  
"12" Then
```

```
Else: MsgBox ("NOT NEW INFORMATION CAN BE ENTERED, PLEASE  
SELECT ONE OF THE MONTH ON THE LIST"), (vbCritical)
```

```
combomonth.Text = "MONTH"  
Exit Sub  
End If
```

```
If comboyear.Text = "2003" Or comboyear.Text = "2004" Or comboyear.Text =  
"2005" _  
Or comboyear.Text = "2006" Or comboyear.Text = "2007" Then  
Else: MsgBox ("NOT NEW INFORMATION CAN BE ENTERED, PLEASE  
SELECT ONE OF THE YEARS OF THE LIST"), (vbCritical)
```

```
comboyear.Text = "YEAR"  
Exit Sub  
End If
```

```
If Combohour.Text = "" Then  
MsgBox "PLEASE ENTER START TIME"  
Exit Sub  
End If
```

```
If Combours.Text = "" Then  
MsgBox ("PLEASE ENTER FINISH TIME"), (vbCritical)  
Exit Sub
```

End If

```
If Combohour.Text = "08:00 AM" Or Combohour.Text = "08:15 AM" Or
Combohour.Text = "08:30 AM" _
Or Combohour.Text = "08:45 AM" Or Combohour.Text = "09:00 AM" Or
Combohour.Text = "09:15 AM" _
Or Combohour.Text = "09:30 AM" Or Combohour.Text = "09:45 AM" Or
Combohour.Text = "10:00 AM" _
Or Combohour.Text = "10:15 AM" Or Combohour.Text = "10:30 AM" Or
Combohour.Text = "10:45 AM" _
Or Combohour.Text = "11:00 AM" Or Combohour.Text = "11:15 AM" Or
Combohour.Text = "11:30 AM" _
Or Combohour.Text = "11:45 AM" Or Combohour.Text = "12:00 PM" Or
Combohour.Text = "12:15 PM" _
Or Combohour.Text = "12:30 PM" Or Combohour.Text = "12:45 PM" Or
Combohour.Text = "13:00 PM" _
Or Combohour.Text = "13:15 PM" Or Combohour.Text = "13:30 PM" Or
Combohour.Text = "13:45 PM" _
Or Combohour.Text = "14:00 PM" Or Combohour.Text = "14:15 PM" Or
Combohour.Text = "14:30 PM" _
Or Combohour.Text = "14:45 PM" Or Combohour.Text = "15:00 PM" Or
Combohour.Text = "15:15 PM" _
Or Combohour.Text = "15:30 PM" Or Combohour.Text = "15:45 PM" Or
Combohour.Text = "16:00 PM" _
Or Combohour.Text = "16:15 PM" Or Combohour.Text = "16:30 PM" Or
Combohour.Text = "16:45 PM" _
Or Combohour.Text = "17:00 PM" Or Combohour.Text = "17:15 PM" Or
Combohour.Text = "17:30 PM" _
Or Combohour.Text = "17:45 PM" Or Combohour.Text = "18:00 PM" Or
Combohour.Text = "18:15 PM" _
Or Combohour.Text = "18:30 PM" Or Combohour.Text = "18:45 PM" Or
Combohour.Text = "19:00 PM" _
Or Combohour.Text = "19:15 PM" Or Combohour.Text = "19:30 PM" Then
Else
```

```
Combohour.Text = ""
MsgBox ("NOT INFORMATION CAN BE ENTERED, PLEASE SELECT ANY
HOUR ON THE LIST"), (vbCritical)
Exit Sub
End If
```

```
If Combhours.Text = "09:00 AM" Or Combhours.Text = "09:15 AM" Or
Combhours.Text = "09:30 AM" _
```


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```
Or Combhours.Text = "09:45 AM" Or Combhours.Text = "10:00 AM" Or  
Combhours.Text = "10:15 AM"  
Or Combhours.Text = "10:30 AM" Or Combhours.Text = "10:45 AM" Or  
Combhours.Text = "11:00 AM"  
Or Combhours.Text = "11:15 AM" Or Combhours.Text = "11:30 AM" Or  
Combhours.Text = "11:45 AM"  
Or Combhours.Text = "12:00 AM" Or Combhours.Text = "12:15 AM" Or  
Combhours.Text = "12:30 AM"  
Or Combhours.Text = "12:45 AM" Or Combhours.Text = "13:00 PM" Or  
Combhours.Text = "13:15 PM"  
Or Combhours.Text = "13:30 PM" Or Combhours.Text = "13:45 PM" Or  
Combhours.Text = "14:00 PM"  
Or Combhours.Text = "14:15 PM" Or Combhours.Text = "14:30 PM" Or  
Combhours.Text = "14:45 PM"  
Or Combhours.Text = "15:00 PM" Or Combhours.Text = "15:15 PM" Or  
Combhours.Text = "15:30 PM"  
Or Combhours.Text = "15:45 PM" Or Combhours.Text = "16:00 PM" Or  
Combhours.Text = "16:15 PM"  
Or Combhours.Text = "16:30 PM" Or Combhours.Text = "16:45 PM" Or  
Combhours.Text = "17:00 PM"  
Or Combhours.Text = "17:15 PM" Or Combhours.Text = "17:30 PM" Or  
Combhours.Text = "17:45 PM" Or Combhours.Text = "18:00 PM" Or  
Combhours.Text = "18:15 PM"  
Or Combhours.Text = "18:30 PM" Or Combhours.Text = "18:45 PM" Or  
Combhours.Text = "19:00 PM"  
Or Combhours.Text = "19:15 PM" Or Combhours.Text = "19:30 PM" Or  
Combhours.Text = "19:45 PM"  
Or Combhours.Text = "20:00 PM" Or Combhours.Text = "20:15 PM" Or  
Combhours.Text = "20:30 PM"  
Or Combhours.Text = "21:00 PM" Then
```

Else

```
Combhours.Text = ""
```

```
MsgBox ("NOT INFORMATION CAN BE ENTERED, PLEASE SELECT ANY  
HOUR ON THE LIST"), (vbCritical)
```

```
Exit Sub
```

```
End If
```

```
If Combhour.Text = Combhours.Text Then
```

```
MsgBox ("ANY ROOM MUST BE BOOK FOR MORE THAN 15 MINUTES"),  
(vbCritical)
```

```
Exit Sub
```

```
End If
```

```
If Combhour.Text > Combhours.Text Then
```

```
MsgBox ("THIS ROOM CAN NOT BE BOOK, THIS TIME HAS ALREADY PASS
OR YOU ENTERED AN INCORRECT TIME PLEASE CHECK AGAIN "),
(vbCritical)
Exit Sub
End If
```

```
BOOKINFO.Clear
```

```
BOOKINFO.AddItem "NAME: " + TextNAME.Text + " " + TextSURNAME
BOOKINFO.AddItem "COURSE CODE: " + coursecode.Text
BOOKINFO.AddItem "ROOM NUMBER: " + roomnumber.Text
BOOKINFO.AddItem "DATE: " + comboday.Text + " " + combomonth + " " +
comboyear
BOOKINFO.AddItem "FROM: " + Combohour.Text
BOOKINFO.AddItem "TO: " + Combohours.Text
BOOKINFO.AddItem "NUMBER OF COMPUTER AND SOFTWARE
AVAILABLE:"
```

- **Code to ask the user if the information is correct.**

```
If MsgBox("IS THIS INFORMATION CORRECT?" + vbCrLf + _
"NAME: " + TextNAME.Text + " " + TextSURNAME.Text _
+ vbCrLf + " COURSE CODE: " + coursecode.Text _
+ vbCrLf + " ROOM NUMBER: " + roomnumber.Text _
+ vbCrLf + "DATE: " + comboday.Text + " " + combomonth + " " +
comboyear.Text _
+ vbCrLf + "FROM: " + Combohour _
+ vbCrLf + "TO: " + Combohours, vbOKCancel, _
"Save Record") = vbOK Then
```

- **code to save the information as a text file.**

```
Dim filenumber As Integer
filenumber = 1
```

```
Open "C:\BOOKING INFORMATION.TXT" For Append As #1
'Open "A:\booking information.txt" For Append As #1
'Open "D:\Visual Progammig\assignment\booking information.txt" For Append As
#1
```

```
Print #1, vbCrLf
Print #1, " THIS ROOM HAS BEEN BOOKED"
```

Print #1, Date

Print #1, vbCrLf

Print #1, " name: " + TextNAME.Text + " " + TextSURNAME.Text '

Print #1, " course code: " + coursecode.Text

Print #1, " room number" + roomnumber.Text

Print #1, " date: " + comboday.Text + " " + combomonth.Text + " " +
comboyear.Text

Print #1, " from: " + Combohour.Text

Print #1, " to: " + Combohours.Text

Print #1, vbCrLf

Print #1, "thank you for using this service " 'THIS WILL BE THE FOOTER

Print #1, vbCrLf

Close #1

Call Shell("NOTEPAD.EXE C:\BOOKING INFORMATION.TXT")

End If

End Sub

❖ **CODES IN THE cmdload COMMAND BUTTON**

- **Codes to load and open the text file with the information the user just entered.**

Dim filenumber As Integer

filenumber = 2

Open "C:\BOOKING.TXT" For Output As #2

'Open "A:\booking.txt" For Output As #2

'Open " D:\visual programming\assignment\booking.txt" for Output as #2

Print #2, vbCrLf

Print #2, " THIS ROOM HAS NOT BEEN BOOK YET"

Print #2, vbCrLf

Print #2, "DATE OF BOOKING" + " " + LBLDATE1.Caption

Print #2, vbCrLf

Print #2, "TIME OF BOOKING:" + " " + lbltime

Print #2, vbCrLf

```
Print #2, " name: " + TextNAME.Text + " " + TextSURNAME.Text
Print #2, " course code: " + coursecode.Text
Print #2, " room number: " + roomnumber.Text
Print #2, " date: " + comboday.Text + " " + combomonth.Text + " " +
comboyear.Text
Print #2, " from: " + Combohour.Text
Print #2, " to: " + Combohours.Text
Print #2, vbCrLf
Print #2, "thank you for using this service "
Print #2, vbCrLf
Close #2
```

```
Call Shell("NOTEPAD.EXE C:\BOOKING.TXT")
'Call Shell("notepad.exe A:\booking.txt")
'Call Shell("notepad.exe D:\visual programming\assignment\booking.txt")
End Sub
```

❖ **CODES IN THE cmdprint COMMAND BUTTON**

- **Codes to print all the information.**

MsgBox "DO NOT FORGET TO SAVE OR YOUR REQUEST WILL NOT BE
PROCESS"

```
Printer.CurrentX = 4400
Printer.CurrentY = 1440
Printer.FontName = "ARIAL"
Printer.FontSize = "15"
Printer.FontUnderline = True
Printer.Print "BOOKING INFORMATION"
Printer.FontSize = 10
Printer.Print ; vbCrLf
Printer.FontUnderline = False
Printer.FontBold = False
Printer.Print "/////////////////////////////////////"
Printer.Print ; vbCrLf
Printer.Print "/////////////////////////////////////"
Font.Size = 28
Printer.FontBold = True
```

```

Printer.Print ; vbCrLf
Printer.Print Date
Printer.FontBold = False
Printer.Print ; vbCrLf
Font.Size = "22"
Printer.FontBold = True
Printer.Print " NAME: "
Printer.FontBold = False
Printer.Print ; TextNAME.Text + " " + TextSURNAME.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print " COURSE CODE: "
Printer.FontBold = False
Printer.Print ; coursecode.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "ROOM NUMBER: "
Printer.FontBold = False
Printer.Print ; roomnumber.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "DATE: "
Printer.FontBold = False
Printer.Print ; comboday.Text + " " + combomonth.Text + " " + comboyear.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "FROM: "
Printer.FontBold = False
Printer.Print ; Combohour.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "TO: "
Printer.FontBold = False
Printer.Print ; Combohours.Text
Printer.Print ; vbCrLf
Printer.FontBold = True
Printer.Print "NUMBER OF COMPUTER AVAILABLE"
Printer.Print ; vbCrLf
Printer.FontBold = False
If roomnumber.Text = "T100" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T229" Then
Printer.Print "25 COMPUTERS"
End If
If roomnumber.Text = "T201" Then

```

```
Printer.Print "25 COMPUTERS"  
End If  
If roomnumber.Text = "T232" Then  
Printer.Print "25 COMPUTERS"  
End If  
If roomnumber.Text = "T217" Then  
Printer.Print "25 COMPUTERS"  
End If  
If roomnumber.Text = "T212" Then  
Printer.Print "20 COMPUTERS"  
End If  
If roomnumber.Text = "T211" Then  
Printer.Print "20 COMPUTERS"  
End If  
If roomnumber.Text = "T221" Then  
Printer.Print "20 COMPUTERS"  
End If  
If roomnumber.Text = "T227" Then  
Printer.Print "25 COMPUTERS"  
End If  
If roomnumber.Text = "T223" Then  
Printer.Print "15 COMPUTERS"  
End If  
If roomnumber.Text = "T152" Then  
Printer.Print "15 COMPUTERS"  
End If  
Printer.Print ; vbCrLf  
Printer.FontBold = True  
Printer.Print "SOFTWARE AVAILABLE: "  
Printer.FontBold = False  
If roomnumber.Text = "T100" Then  
Printer.Print ; vbCrLf  
Printer.Print "VISUAL BASIC"  
Printer.Print ; vbCrLf  
Printer.Print "SELECT"  
Printer.Print ; vbCrLf  
Printer.Print "FLASH"  
End If  
If roomnumber.Text = "T229" Then  
Printer.Print ; vbCrLf  
Printer.Print "VISUAL BASIC"  
Printer.Print ; vbCrLf  
Printer.Print "SELECT"  
Printer.Print ; vbCrLf  
Printer.Print "FLASH"  
End If
```

```
If roomnumber.Text = "T201" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T232" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T217" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T212" Then
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T211" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
End If
If roomnumber.Text = "T221" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
End If
If roomnumber.Text = "T227" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
```

```

Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T223" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
If roomnumber.Text = "T152" Then
Printer.Print ; vbCrLf
Printer.Print "VISUAL BASIC"
Printer.Print ; vbCrLf
Printer.Print "SELECT"
Printer.Print ; vbCrLf
Printer.Print "FLASH"
End If
Printer.Print ; vbCrLf
Printer.Print "/////////////////////////////////////"
Printer.Print ; vbCrLf
Printer.Print "/////////////////////////////////////"

Printer.EndDoc

Close #1

End Sub

```

❖ **CODES IN THE cmdreset COMMAND BUTTON**

```

Private Sub cmdreset_Click

Coursecode.text = "select course code"
Roomnumber.text = ""
textNAME.text = ""
textSURNAME.text = ""
comboday.text = "DAY"
combomonth.text = "MONTH"
comboyear.text = "YEAR"
combohour.text = ""
combohours.text = ""
BOOKINFO.clear

```



```
Rooms1.clear  
Des1.clear  
Coursecode.SetFocus  
End Sub
```

❖ **CODES IN THE cmdabout COMMAND BUTTON**

```
Private Sub CMDABOUT_Click()  
FRMABOUT.Show vbModal  
End Sub
```

❖ **CODES IN THE cmdexit COMMAND BUTTON**

```
Private Sub cmdexit_Click()  
If MsgBox("are you sure you want to exit?", vbYesNo) = vbYes Then  
End  
End If  
  
End Sub
```

❖ **CODES FOR cmdok BUTTON ON THE FRMABOUT FORM.**

```
Private Sub CMDOK_Click()  
Unload Me  
End Sub
```

❖ **CODES FOR timer1 on booking system form.**

```
Private Sub Timer1_Timer()  
lbltime.Caption = Format$(Time, "HH:MM")  
LBLDATE1.Caption = Format$(Date, "dd - mm - yyyy")  
lblday.Caption = Format$(Date, "d")  
lblmonth.Caption = Format$(Date, "mm")  
blyear.Caption = Format$(Date, "yyyy")  
lblhour.Caption = Format$(Time, "hh")  
lblhours.Caption = Format$(Time, "hh")  
  
End Sub
```

ASSUMPTIONS

- The college opens its doors at 8 o'clock in the morning, so booking start at the same time as well, the last booking has to be made before 18:30, the college closes its door at 21:00 o'clock.
- All booking must be done a least a day before the actual date the room is needed.
- All rooms must be booked for more a minimum of 15 minutes.

EVALUATION

Doing this project has been very hard because I did not have any knowledge of visual basic but reading some very good books gave me a big help.

Overall I think my design cover pretty much all the angles in the validation, I assumed I was the user and looked a every single possibilities that came to my mind, like what happens if I don't select the course code but instead write my name on that combo box, what will the program do?.

If the program continues then I have to write a validation where the program is expecting the information that is already store in the system and that exactly what I did.

One of the most difficult things I found doing this project was working out the validation for the date, so that the user could booked rooms a date that has already passed.

One thing that I would do different is start documenting every single change I made to the program from the moment I started it, it was very difficult recalling everything I did from the start.

I have check my codes and design several times and the only thing I could enhance on the future is that if the user has already entered all the information but suddenly change any information like the date time etc, then I would show a message box asking the user if he/she wants to save the information that was there before he made the change.

Apart from this, I really enjoy myself doing this assignment.

REFERENCES

- VISUAL BASIC FOR AVCE
By Derek Christopher
2001
Publisher: Payne-Gallway

- MICROSOFT VISUAL BASIC PROGRAMMING PROJECTS
By John Sestak
2000
Publisher: South-Western Educational Publishing

- BEGINNING VISUAL BASIC 6
By Peter Wright
2002
Publisher: Wrox