



NEAR EAST UNIVERSITY

**FACULTY OF ECONOMICS AND
ADMINISTRATIVE SCIENCE**

**DEPARTMENT OF COMPUTER
INFORMATION SYSTEM**

2002 SPRING TERM

CIS 400

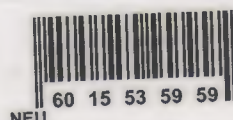
(Graduation Project)

Hospital Management System

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**Lefkosa
2002**



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ACKNOWLEDGMENT

We humbly thankful for Dr.Yalcin Akcali and our advisor Miss. Nadire cavus for their valuable support they extended us throughout the project.

As much as we like to thank making this project and finish this project to Allah at first. Then we would like to thank our teachers at computer information system department.

And thanks again to Prof. Dr. Steven McDowell who supporting us by complete information and the necessary data that we have been looking for.

Eventually a lot of thanks for all the people and friends that we couldn't assigned at this acknowledgment but they always near to our heart

Abstract

The aim of the project "Hospital Management" is been observed in a view to meet the requirements of generally Hospitals and clinics, to provide a better, convenient and efficient Medical services to the people. The project has been developed in such a way that the user interaction has been given the most priority from us. It's easy to operate, as it's completely user friendly, with necessary help and warning provided, operating by the visual basic program, we hope that our project will reach the awaited expectations of our teachers.

Any feedback & contribution will be welcomed from the user for development, as user suggestion is our most aim.

The objective of the project is to develop complete software for running the work of Hospital Management. This program will cover the work of the hospital in accounting, department and patient treatment as well.

The database design will be based on have the information on the following:

Doctor's Information: Covering the personal details of the doctor, their branch of Specialization, and the fee which will be charged for their consultation. The information of other staff like nurses, receptionist and others will also be maintained.

Patient Information: Patient information will be recorded by having unique search key for the patient Identification, and accordingly a card will be issued to the patient for future reference. The search ID may be patient name, telephone no, company of which he/she employee.

Services Information: Information about types of services which the hospital offers may be maintained, along with the charges for those services, like Ultrasound, X-Ray and other services.

Medicines Database must be maintained for Medicines along with the prices.

INTRODUCTION

The software has been developed in Visual Basic, which is considered as one of the most powerful programming tool. The project has been developed and designed in a way to meet the user requirement. All necessary tools have been provided in the form of User Manual, Data Flow Diagrams (DFD) and Flow-Charts. The program has a main menu screen, which further guides to the other sub menus, utmost care has been taken to make the system user-interactive. All reports and data entry screens have been designed per user needs.

Any feedback & enhancement will be welcomed from the user for consideration, as user satisfaction is our main aim.

The objective of the project is to develop complete software for catering the need of Hospital Management. This program will serve the need of the hospital in accounting department and patient treatment as well .

The database design will be based to have the information on the following :

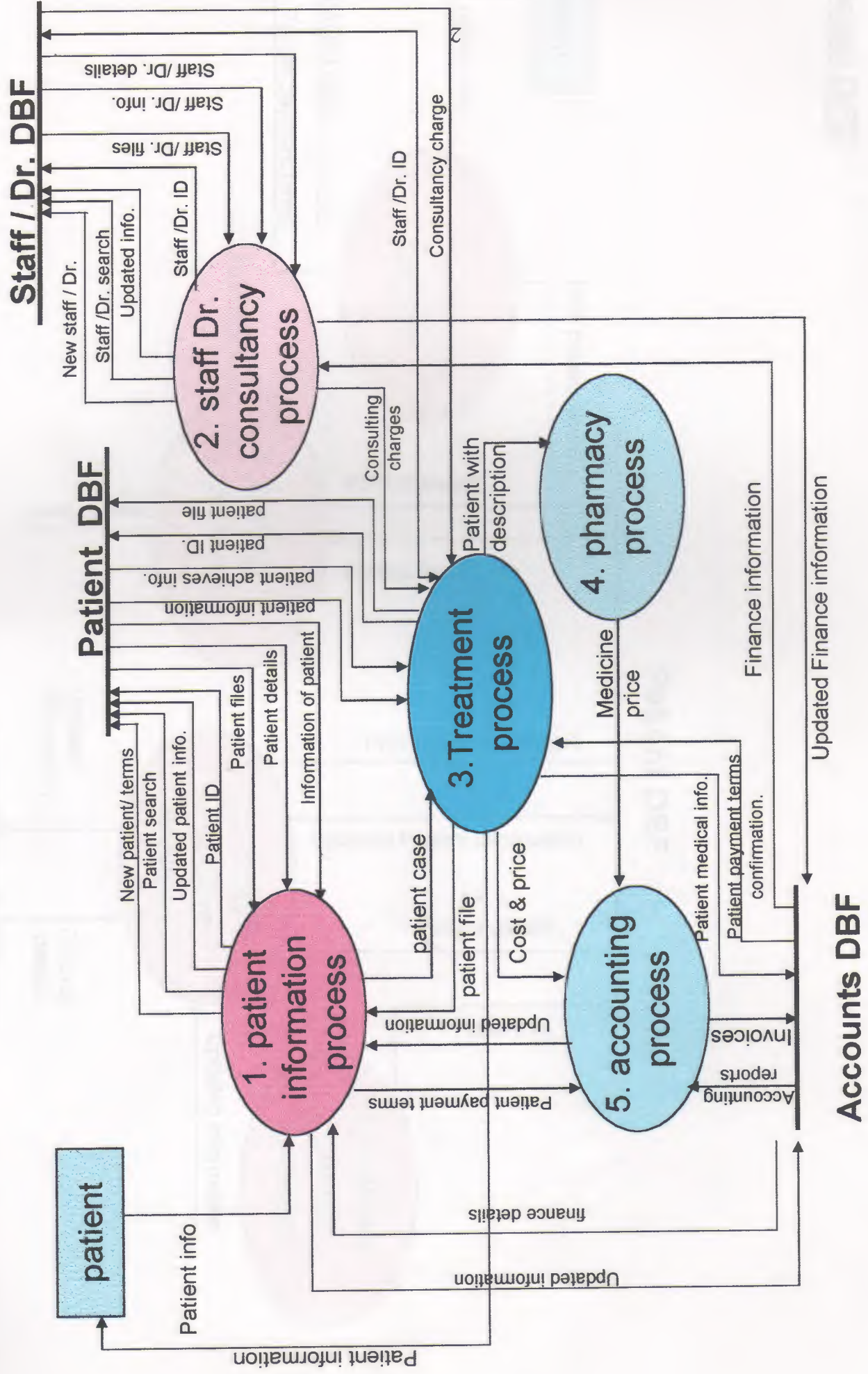
Doctor's Information: Covering the personnel details of the doctor, their branch of Specialization, and the fee which will be charged for their consultation. The information of other staff like nurses, receptionist and others will also be maintained .

Patient Information: Patient information will be recorded by having unique search key for the patient identification, and accordingly a card will be issued to the patient for future reference. The search ID may be patient name, telephone no, company of which he/she employee .

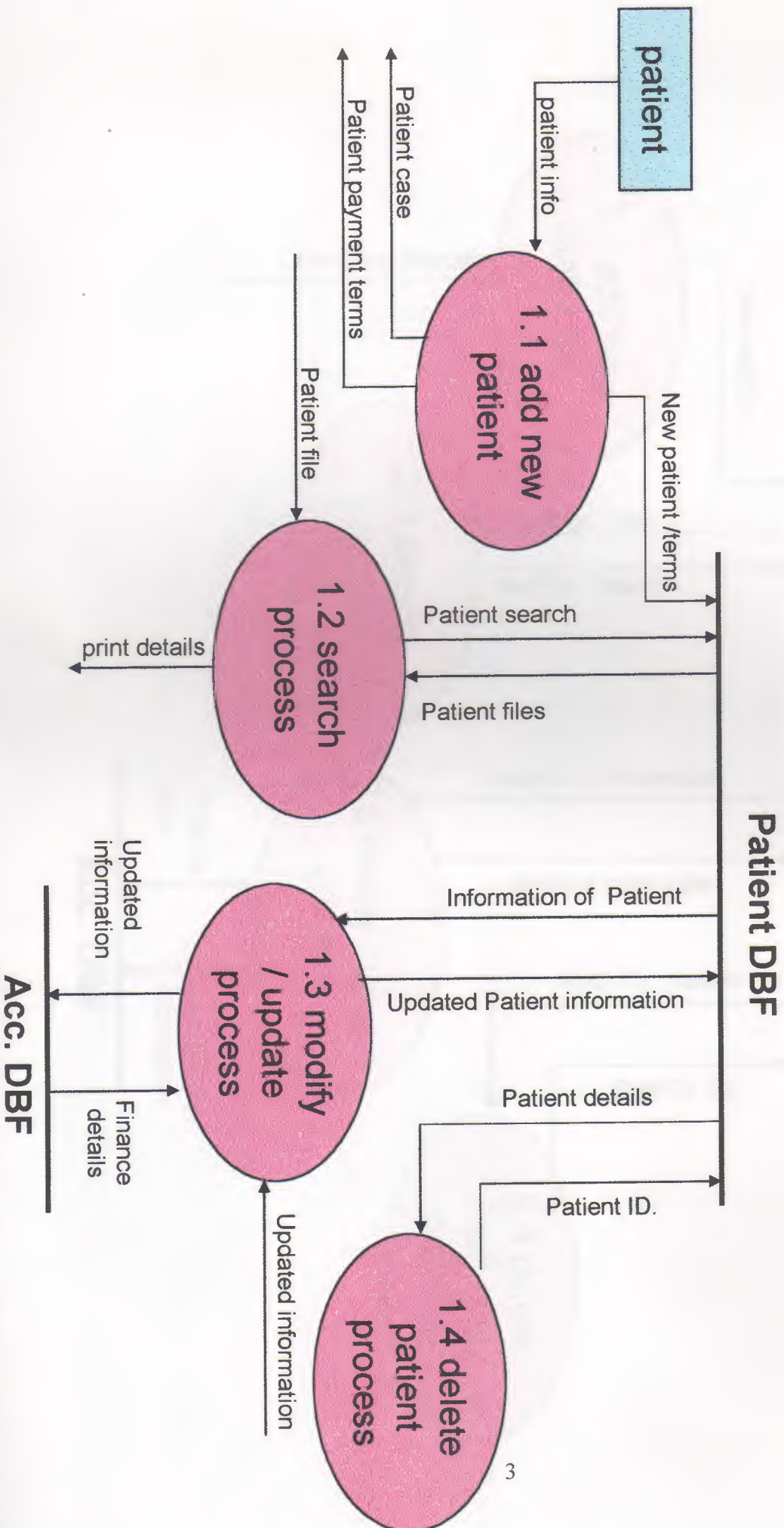
Services Information: Information about types of services which the hospital offers must be maintained, along with the charges for these services, like Ultrasound, X-Ray and other services .

Medicines: Database must be maintained for Medicines along with the prices .

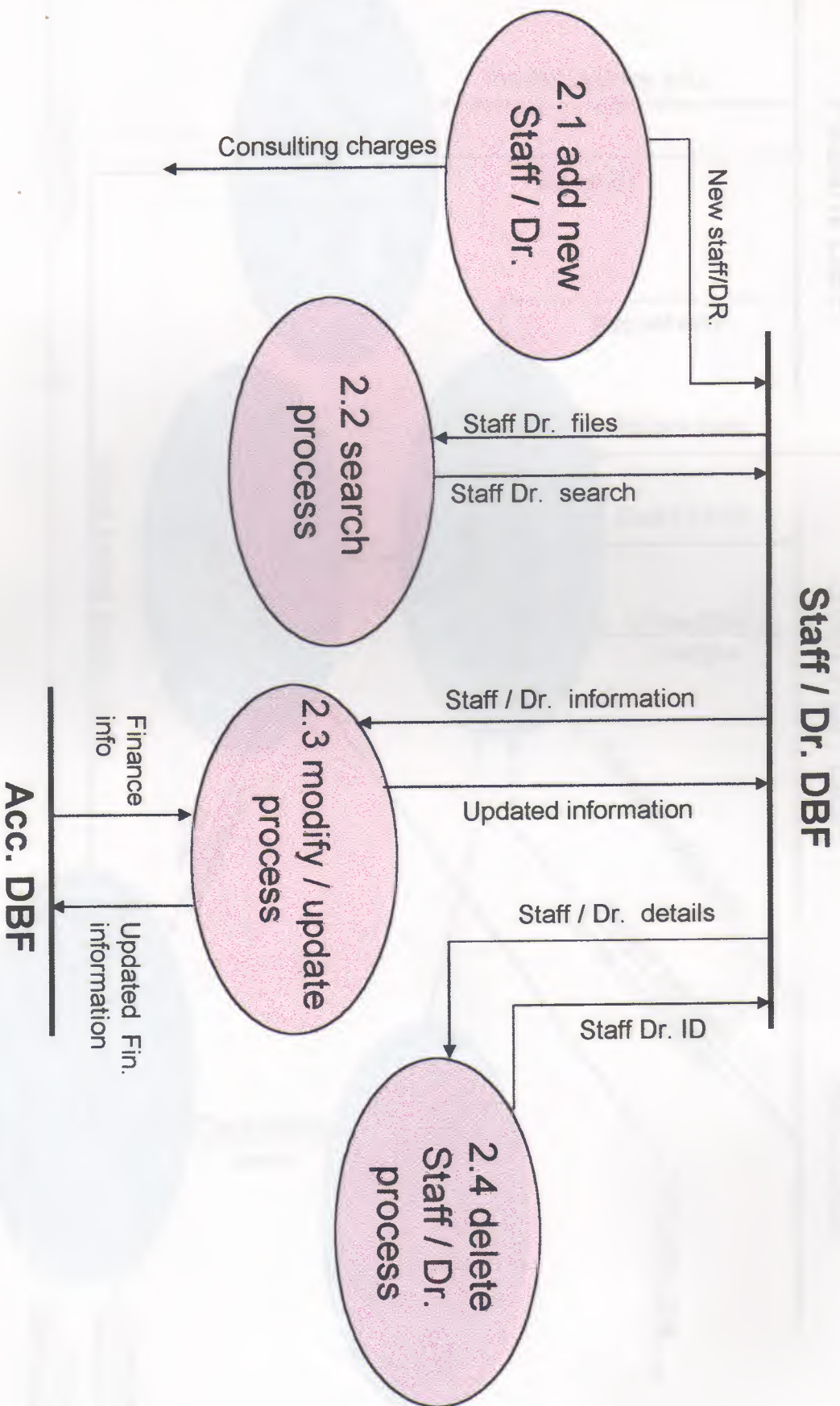
Top - Level DFD



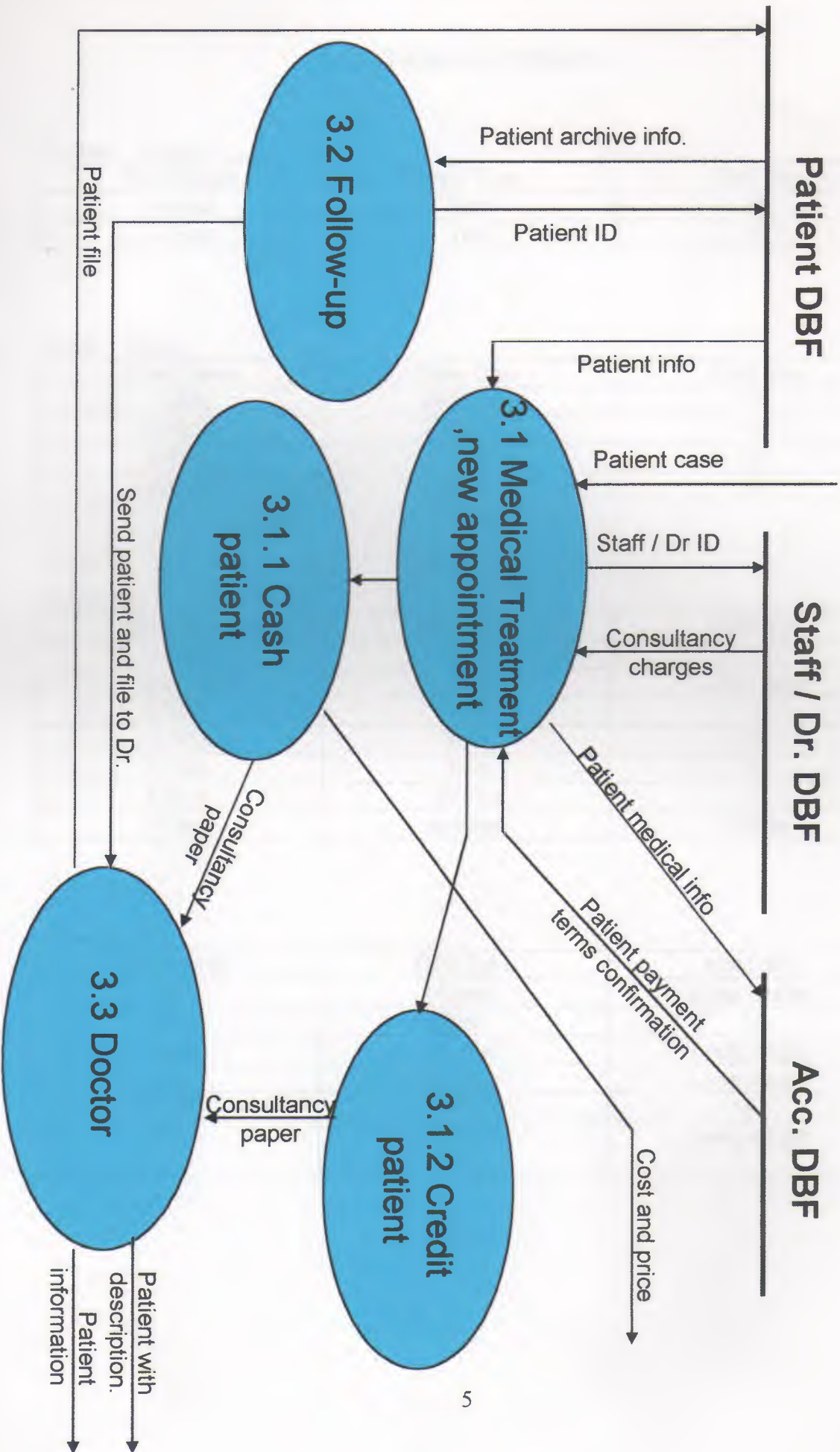
Detail DFD



Detail DFD



Detail DFD



DATABASE DESIGN

1-Dept Clinks :-

Filed Name	Data Type	Field Size
1-dcod	Text	15
2-dnam	Text	15

2-DR Time:-

Filed Name	Data Type	Field Size
1-date	Date/time	10
2-DR.ID	TEXT	10
3-Time	Text	15
4-Remr	Text	10

3-Inv Iss:-

Filed Name	Data Type	Field Size
1-vicd	Text	10
2-pnum	Number	Long integer
3-Tcod	Text	10
4-Tdis	Text	10
5-Cost	Text	10
6-Invp	Yes/no	-
7-Dsct	number	double

4-Medic iss :-

Filed Name	Data Type	Field Size
Itrn	Number	Long integer
Mcod	Text	50
Pnum	Number	Long integer
Isqu	Number	Long integer
Unpc	Number	40
Chcr	Text	Long integer

5-Medic_md :-

Filed Name	Data Type	Field Size
Mcod	Text	50
Mdes	Text	50
Mprc	Number	Double

6-Medic_rec :-

Filed Name	Data Type	Field Size
Num	Outo number	Long integer
Date	Date/time	Short integer
Mcod	Text	50
Requ	Number	50

7-Patient :-

Filed Name	Data Type	Field Size
Pnum	Number	Long integer
Pfnm	Text	50
Plnm	Text	50
Ptcl	Text	50
Ppay	Text	50
Pcom	Text	50
Pbdy	Date/time	-

8-Payment:-

Filed Name	Data Type	Field Size
Pyds	Text	10

9-Phtrans:-

Filed Name	Data Type	Field Size
Phtnum	Outonumber	Long integer
Print	Text	10

10-Setcounter :-

Filed Name	Data Type	Field Size
Cnst	Number	Long integer

11-Staf:-

Filed Name	Data Type	Field Size
Side	Text	10
Stnm	Text	50
Slnm	Text	50
Stel	Text	50
Sspc	Text	50
Ssal	Number	Long integer
Soth	Number	Long integer

12-Test result:-

Filed Name	Data Type	Field Size
Pnum	Number	Long integer
Tcod	Text	6
Date	Date/time	Short integer
Tecn	Text	50
Teci	Text	50
Trus	Text	150

13-Treatment:-

Filed Name	Data Type	Field Size
Tdis	Text	50
Tcod	Text	6
Tdep	Text	2
Tcst	Number	Double

14-visit_rec:-

Filed Name	Data Type	Field Size
Anum	Auto number	Long integer
Pnum	Number	Long integer
Sidn	Text	6
Date	Dated time	-
Dept	Text	6
Tcod	Text	50
Qnum	Number	Long integer
Vtxp	Text	1
Lost	Number	Double
Vcod	Text	50
Invp	Tes/no	-

Hospital Management System (User Manual)

HospitalPro is software designed for managing the job of hospital reception in easy way.

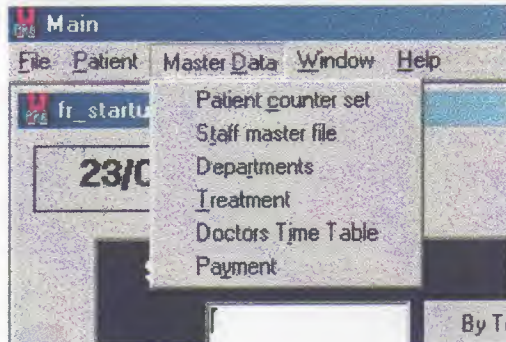
The structure of HospitalPro:

[Master Date](#)

[Patient Visits and Invoicing](#)

[Fast Search](#)

Master Date



Master data is the main data of the software that you can not start working without proper setup of this data.

The following lines are showing the usage of each session

Patient counter set

This session is ONE TIME setup (6 digits), it is used to set the start number of the patients counter. Based on this number, HospitalPro will give an automatic number for the [new patients](#)

Staff master file

In this session you have to input the master date of the hospital staff. Every person in the staff should have an ID code along with other basic information. The ID you enter will be used select the doctor (staff member) at the time of [recording the patients visits](#).

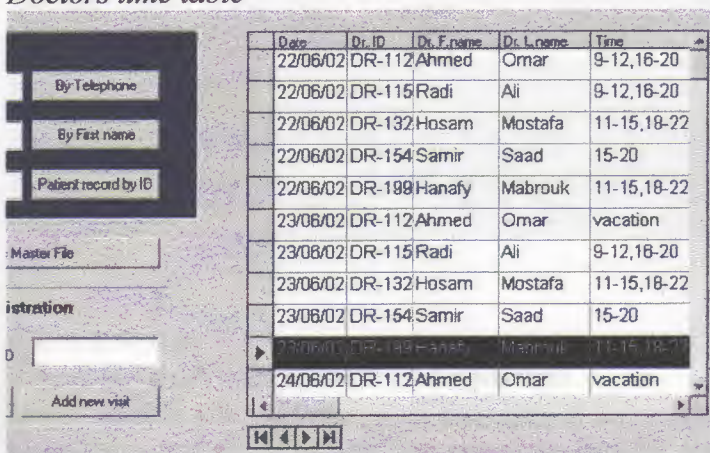
Departments

To give a code (2 characters) for every department (e.g. CL for Clinics, EM for Emergency and so on)

Treatment

To describe the different kind of treatment services the hospital is giving, every treatment should have a code (6 characters) and description, the other fields (Dept and cost) are extra information about this service.

Doctors time table



In this session you will update always the time table for the doctors. This will give a fast access to the receptionist to know the availability of doctors to give the patients fast and accurate answers.

The receptionist can see this table by maximizing the Start-up screen

Payment

It is a simple session to record the way of payment (e.g. Cash or Credit)

Patients master data

This is the starting point for every patient come to the hospital, you have to open a new file for every patient. Once you open this session and click "Add" button an automatic number will be given to the patient based on the numbering system you defined in the [Patient counter set](#) and last patient ID

You can access this session from menu bar "Patient/Master file" and also directly from the Start-up screen

Note: You have to click "Add" for every new patient. And to change data of an existing patient you have to click "Update" after making the changes.

For easy data changes see [Fast search](#).

Patient Visits and Invoicing

HospitalPro is providing a fast way to view and to record the visits of every patient.

The word "Visit" means every time the patient goes to a [department](#) to do any kind of treatment or test

View patient visiting records

ID	Doctor ID	Date	Dent	Treatment/Test code	Number in queue	Visit Type	Cost
100004	DR-154	19/06/02	LB	BLD-01	5	N	40
100004	DR-132	19/06/02	LB	BLD-01	6	N	15
100004	DR-132	19/06/02	LB	BLD-02	11	N	10
100004	DR-132	20/06/02	OP	SRG-01	0	N	500
100004	DR-199	22/06/02	CL	DEN-01	3	N	50
100004	DR-115	23/06/02	CL	INT-01	16	N	50
100004	DR-112	23/06/02	CL	ENT-01	5	N	50

You can view all the visit record of a patient by entering the ID in "Enter patient ID" field then click "Visits records"

In this session you can view, edit and add a new visit

Add a new visit

This is the most used session in HospitalPro.

In this session you will record all the [visits](#) of the patients and then print the invoice. This session is assessable from many places, you can add a visit by clicking "Add new visit" in the Start-up screen, and from "Add" button in view Patient Visit Records, also you can a new visit from Add new visit session itself by clicking the "Add" button in the session

The following lines are showing how to use this session:

frPvsreg

Patient Visit Registration

P. ID: 100001

Dr. ID: DR-199 Hanafy Mabrouk

Date: 20/06/02

Dept: CL CLINIC

Description: DEN-01 DENTAL

No. in queue: 6

Visit code: 100001731430CL

Visit type: N

Cost: 50

Buttons: Add, Update, Exit, Invoice

The form is designed to make the data entry easy as possible.

The dropdown menus make the selection fast and accurate because the selection is restricted to the list.

Patient ID will come automatically from "Enter patient ID" field in Start-up screen and the date is reading automatically the current date from the system.

The fields Dr. ID, Dept. and Description are coming from the predefined [master data](#)

The field "Visit code" is an automatic number, HospitalPro is generating a unique number for every visit of a patient to any of the departments, based on this number the invoice will be generated, so if the patient went to more than clinic in the same day the invoice will be printed for all clinics together or if the patient went to the Lab to do some tests all the test will appear in one invoice, the same for Emergency also

Invoicing

After you enter the data of the patient visit you can print the invoice directly by clicking the "Invoice" button. This button will take you to the invoice screen, in the screen you will find all the records that have got the same Visit code, you can edit the numbers and also you add a discount, finally to print the invoice click "Print Invoice" button.

frInvPr

Invoice

Visit code	Patient ID	Description	Cost	Discount
100009731432LB	100009	BLOOD-GRP	20	0
100009731432LB	100009	BLOOD-HCG	11	0

DataReport1

Zoom: 100%

International Treatment Hospital

Invoice

Visit Code	100009731432LB		
Patient ID	100009		
Description	cost	Discount	Net
BLOOD-GRP	20	0	20
BLOOD-HCG	11	0	11
Total			31

Pages: 1

Fast search

fr_startup

23/06/02

Search Patient

By Telephone

By First name

Patient record by ID

Patients Master File

Patient visit registration

Enter patient ID

Visit records

Add new visit

Find Patient by Tel. number

Tel	ID	F. Name	L. Name	Payment	Company
3586040	100001	Khalid	mohammed	Credit	fibertech
3586040	100003	ahmed	bilal	Cash	
3586040	100015	ZAFAR	SIDDIQUI	Credit	FIBER
3586040	100020	SAWEER	RAWAL	Credit	TATA
3586040	100021	omar	mohammed	Credit	FIBERTECH

Number of records found : 5

Find Patient by Name

F. Name	L. Name	ID	Telephone	Payment	Company
omar	ahmed	100004	2349023	Cash	
omar	hasan	100002	3582233	Credit	zadal

Number of records found : 2

HospitalPro is providing a fast way of finding the ID of a patient and then record his visit, you can find by telephone number by entering the telephone number in the field next to the button "By Telephone" then click the button. The same thing for finding by first name, enter the first name in the field next to the button "By First name" then click the button.

frpatmd

Patient Master Data

P.ID: 100004

P.first name: omar

P. last name: ahmed

Telephone: 2349023

Payment: Cash

Company:

Birth date: 23/05/66

Add

Update

Exit

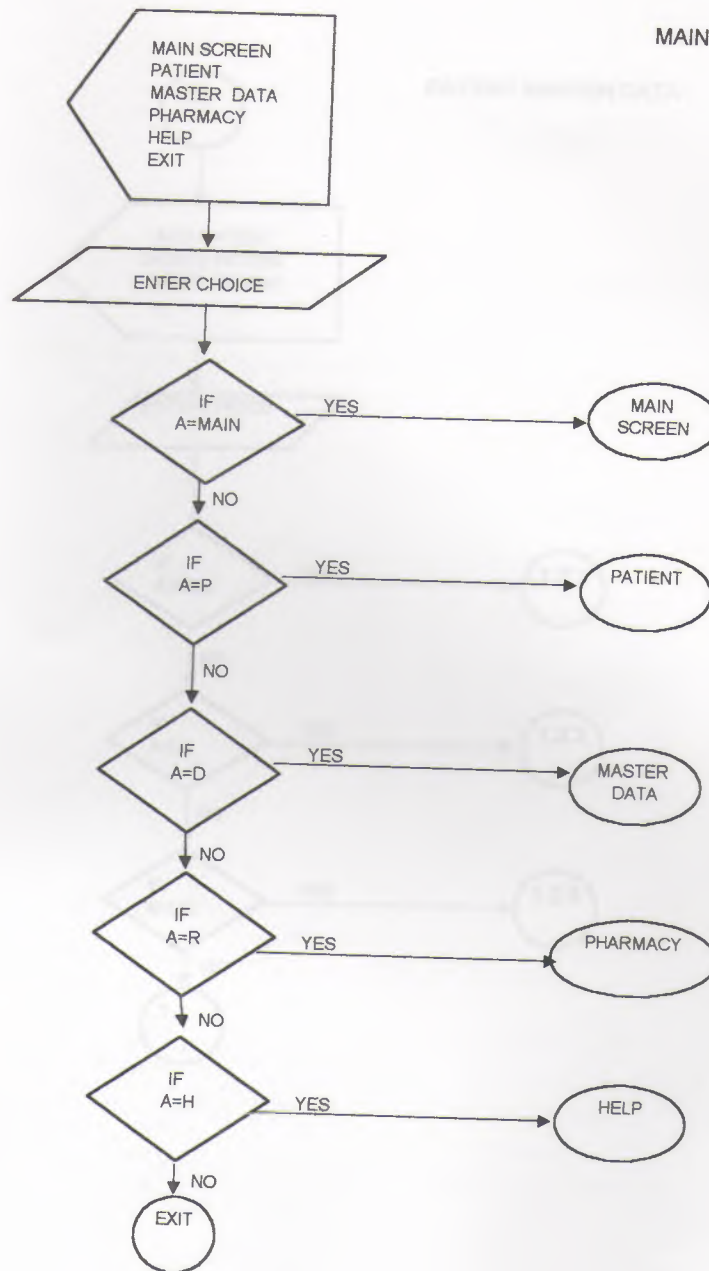
Last ID: 100021

In case that you want to view a certain master data for a patient to check or to edit, you can reach the record directly by entering the ID in the field next to the button "Patient record by ID" then click the button.

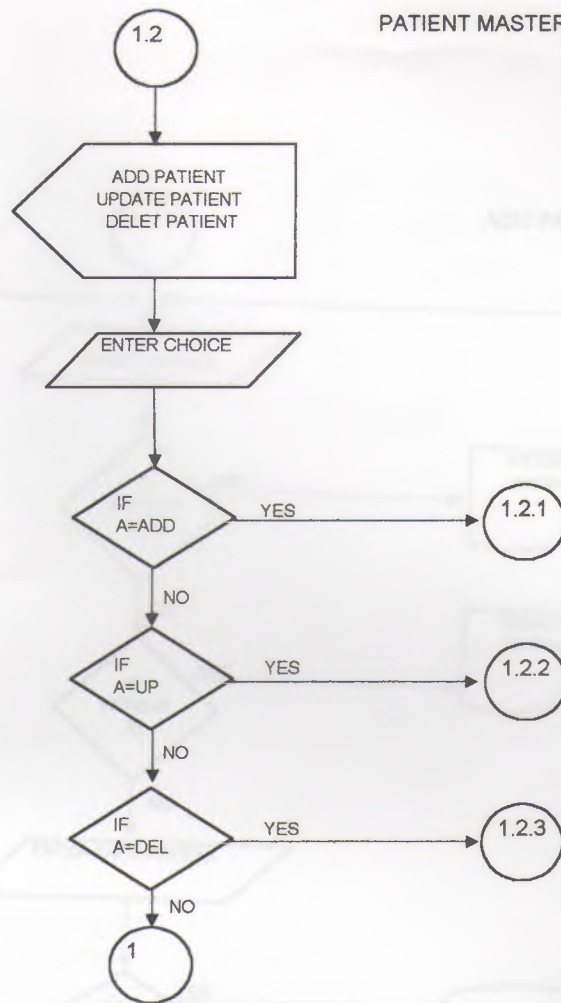
This will allow you to edit ONLY the current record, you will not be able to add a new record

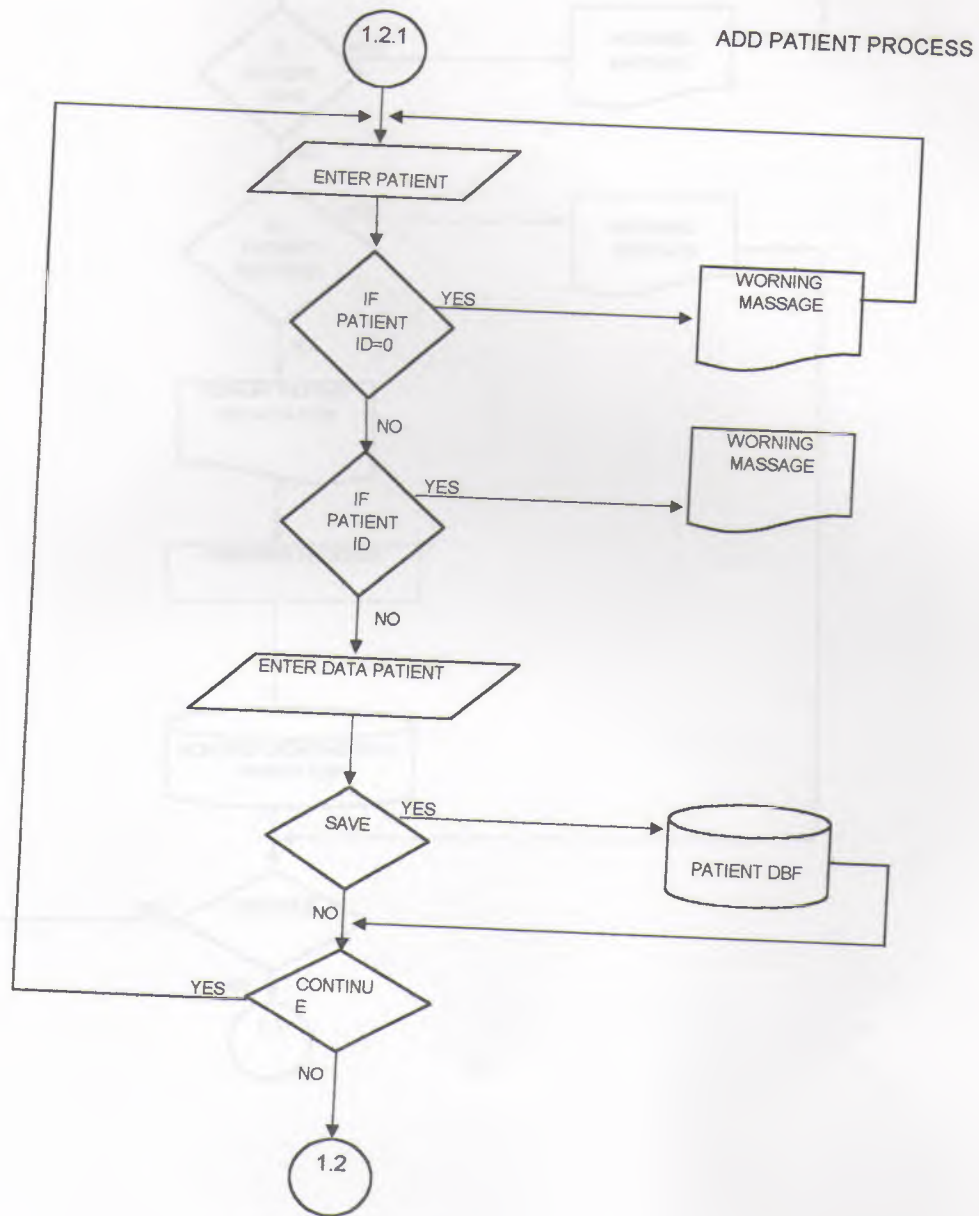


USER_FLOW_CHART

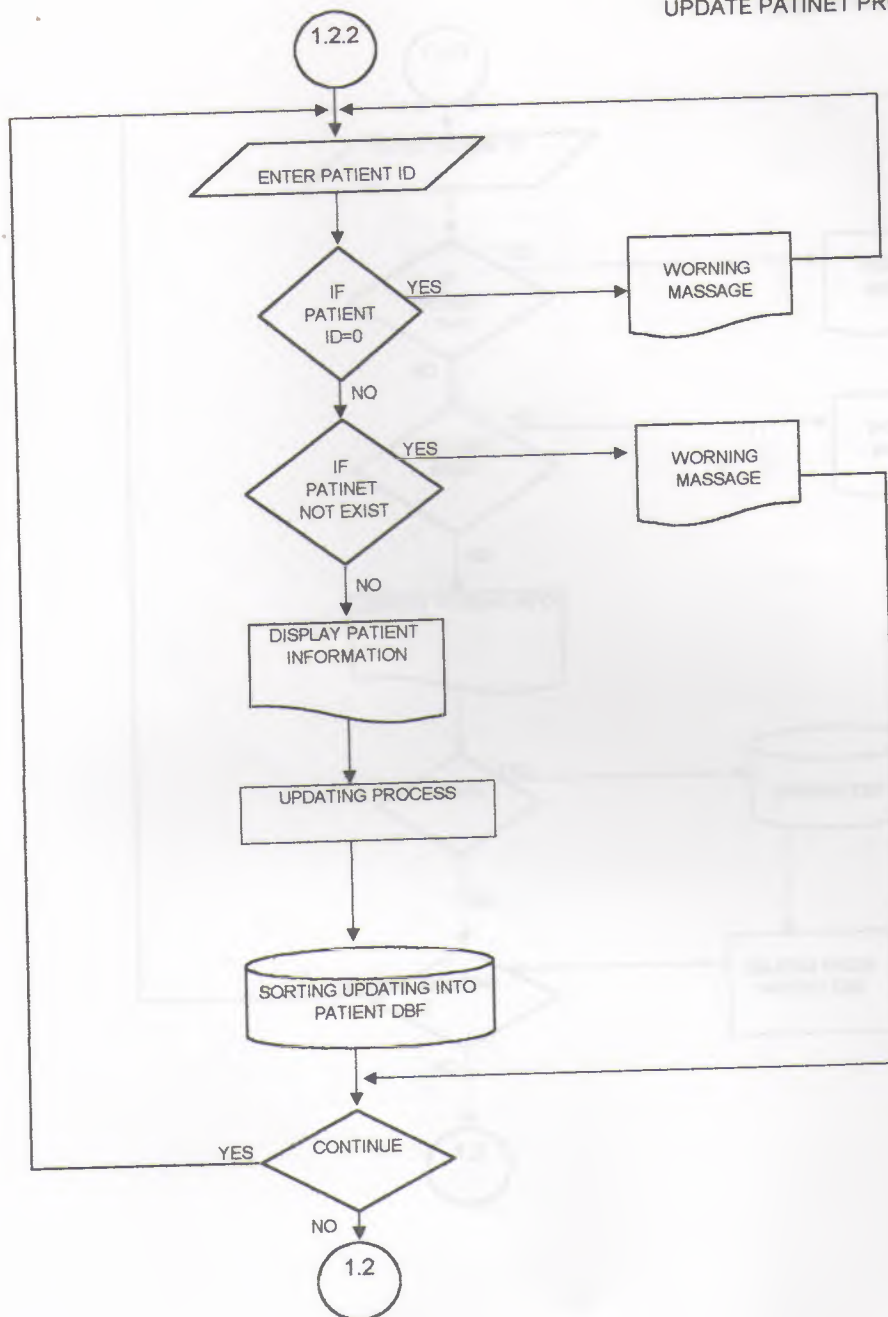


PATIENT MASTER DATA

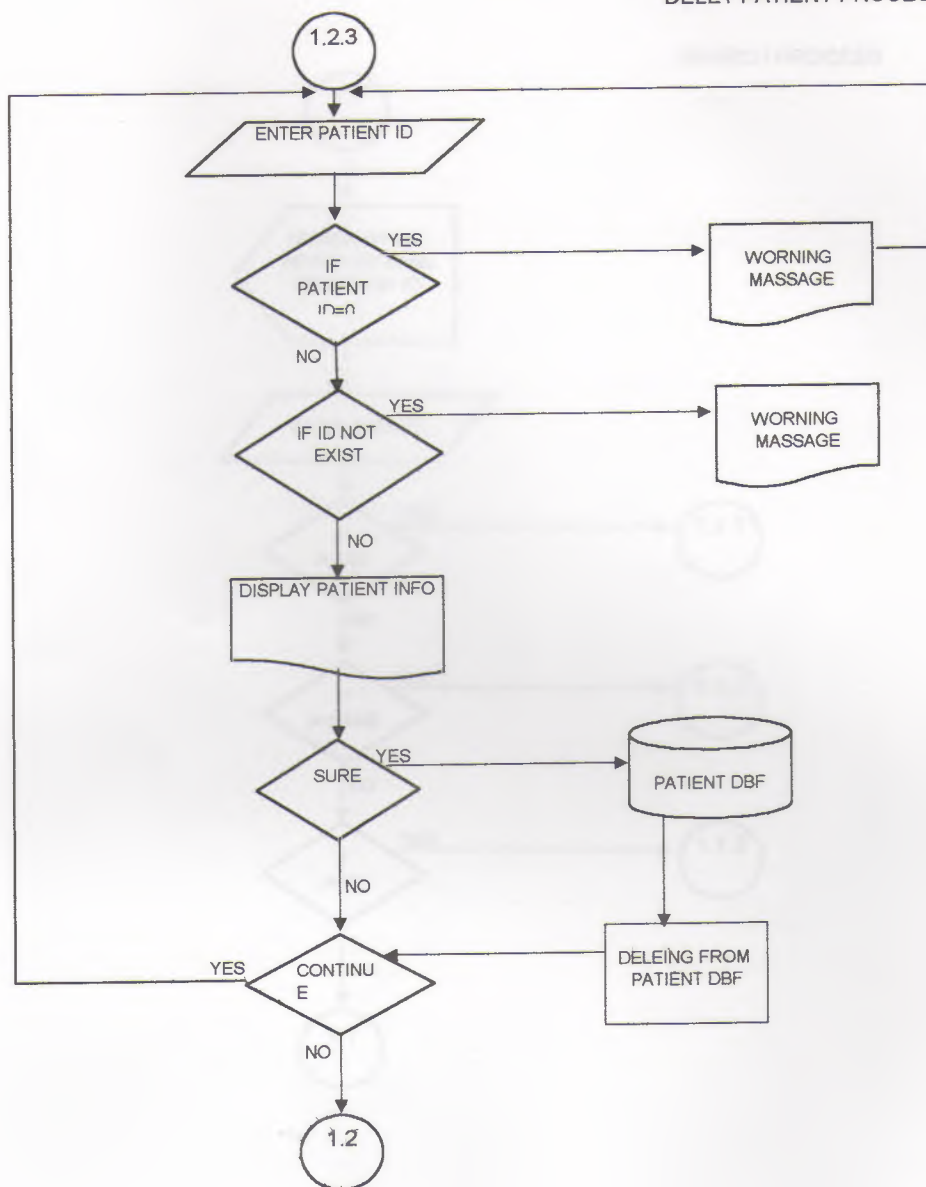




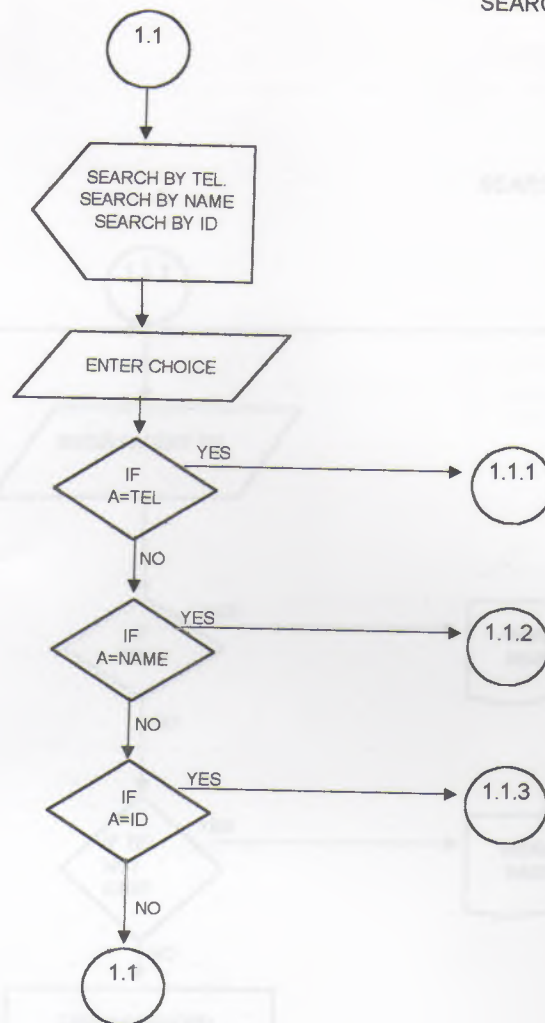
UPDATE PATINET PROCESS



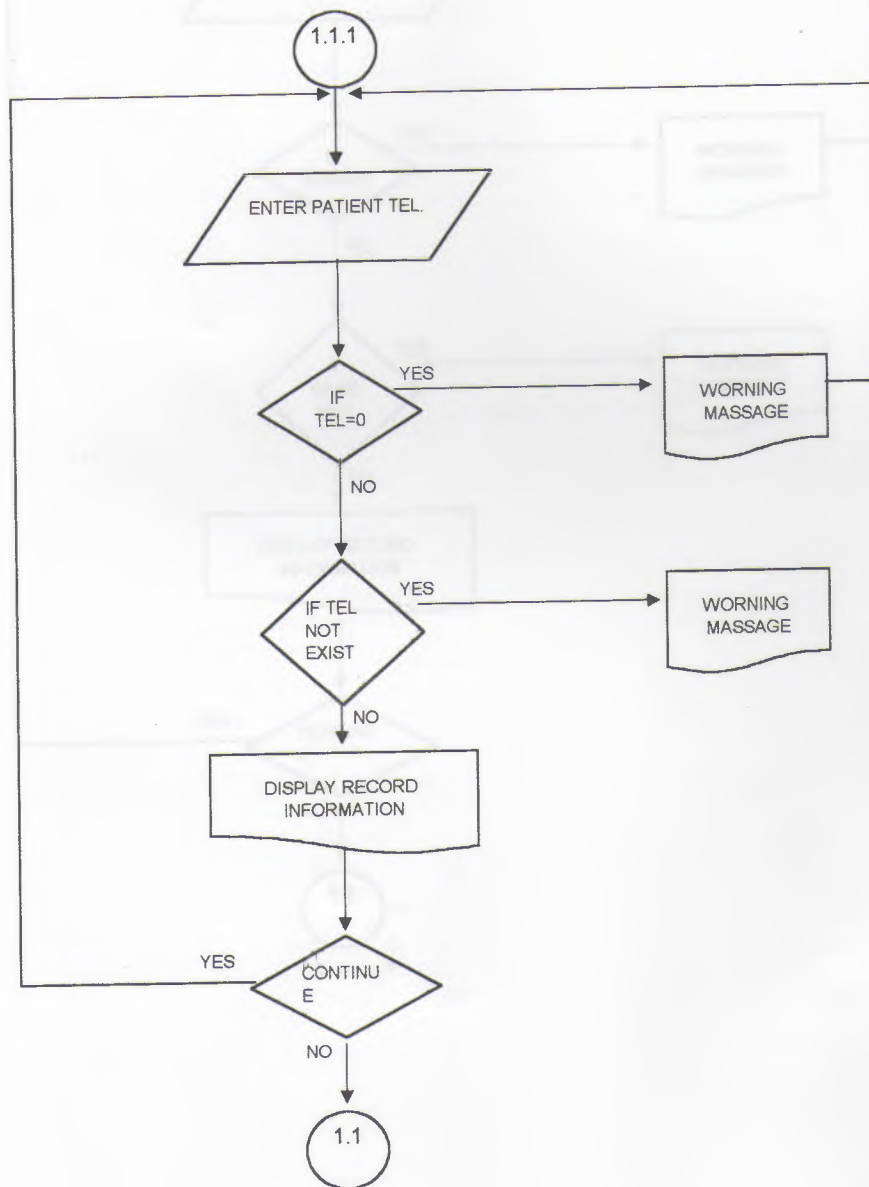
DELET PATIENT PROCESS



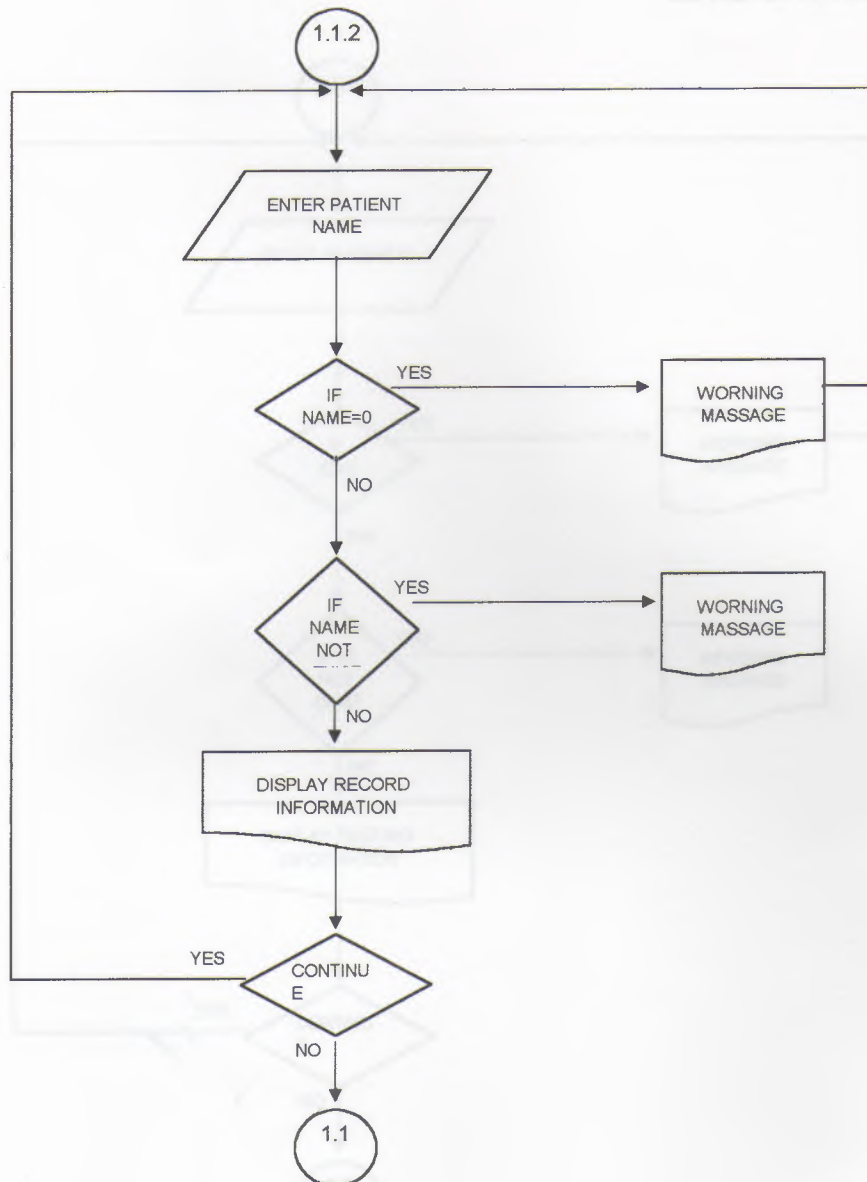
SEARCH PROCESS



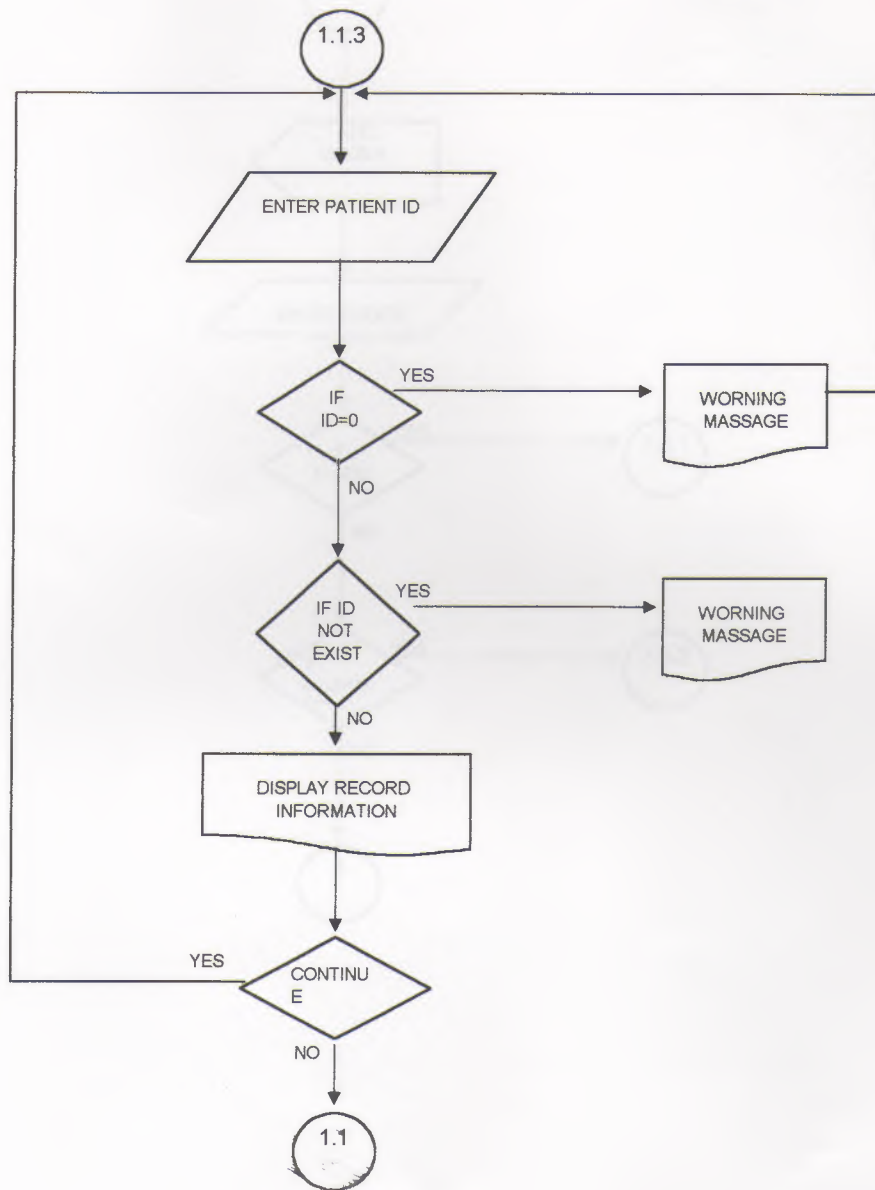
SEARCH BY TEL.



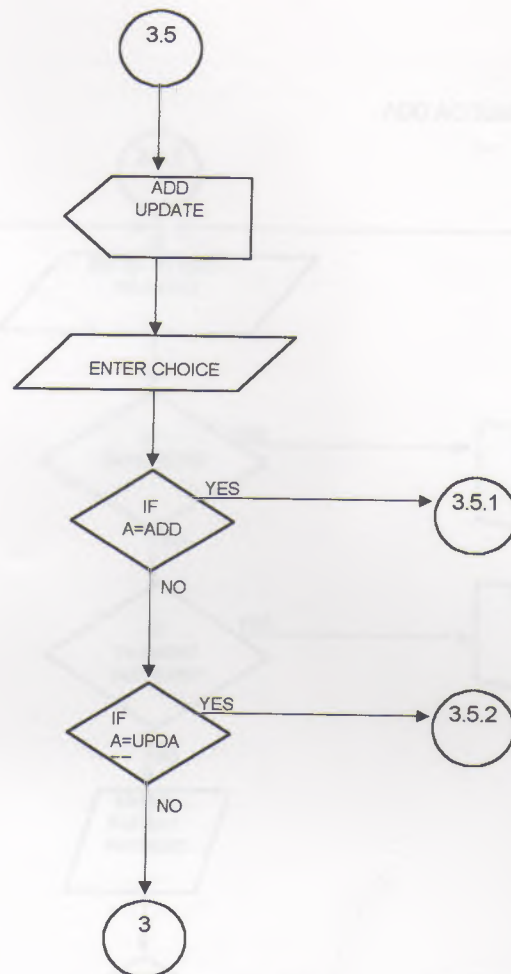
SEARCH BY NAME



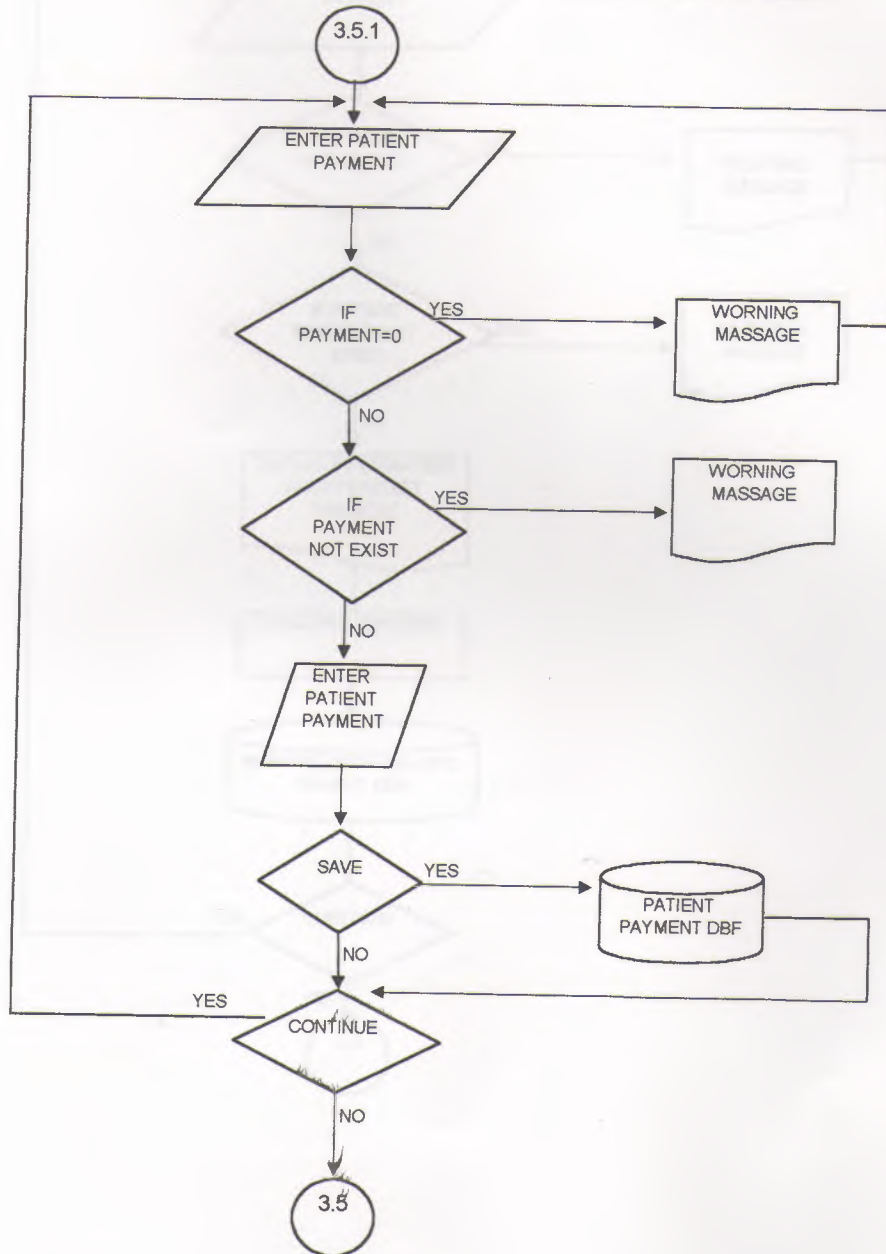
SEARCH BY PATIENT ID



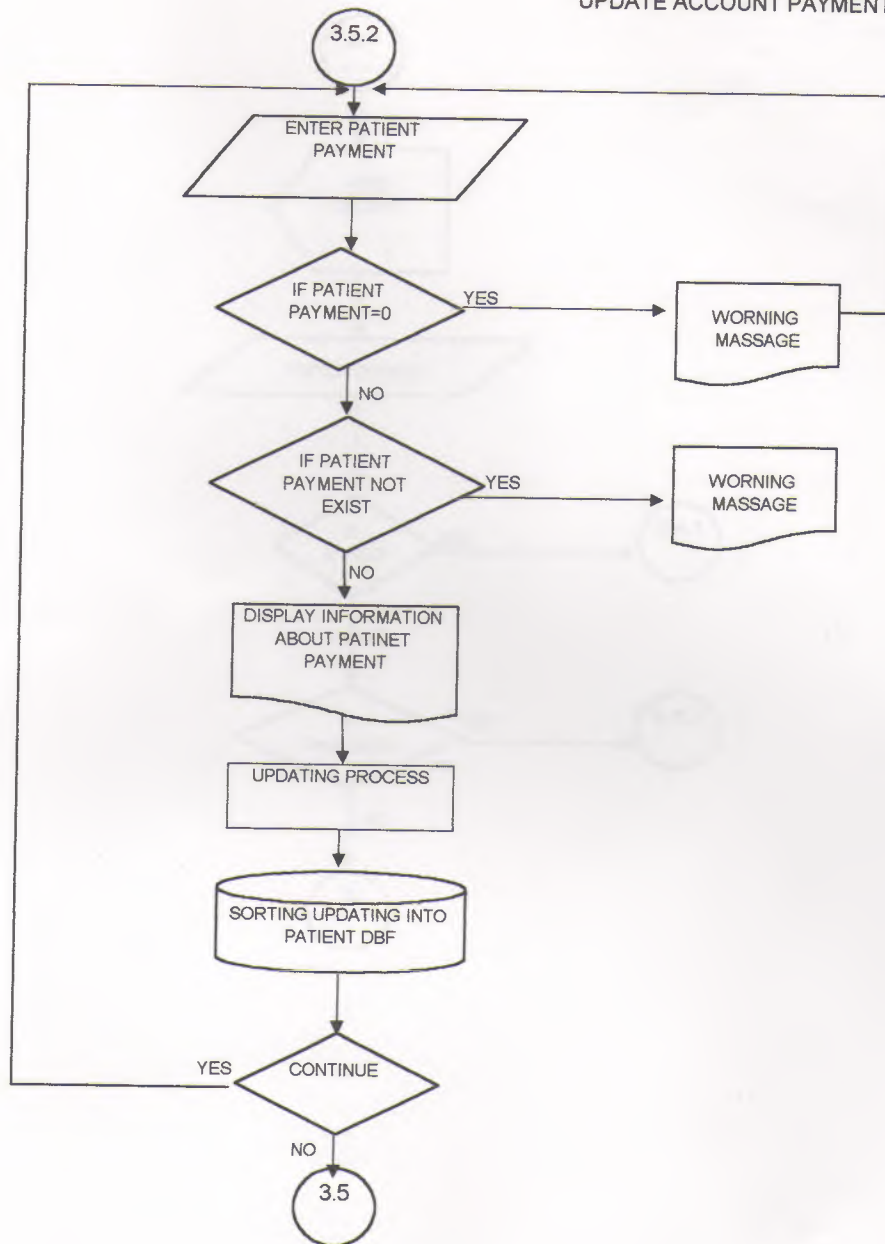
ACCOUNT PAYMENT PROCESS



ADD ACCOUNT PAYMENT

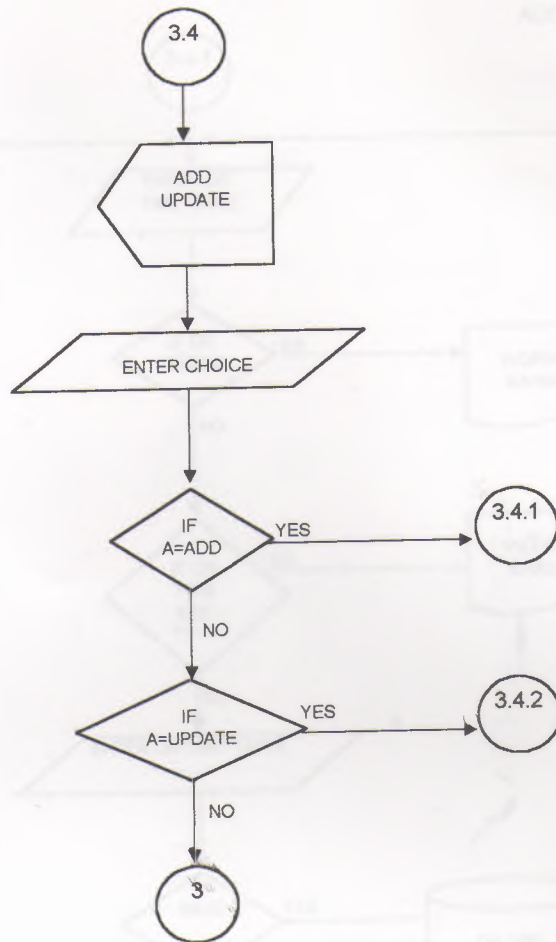


UPDATE ACCOUNT PAYMENT

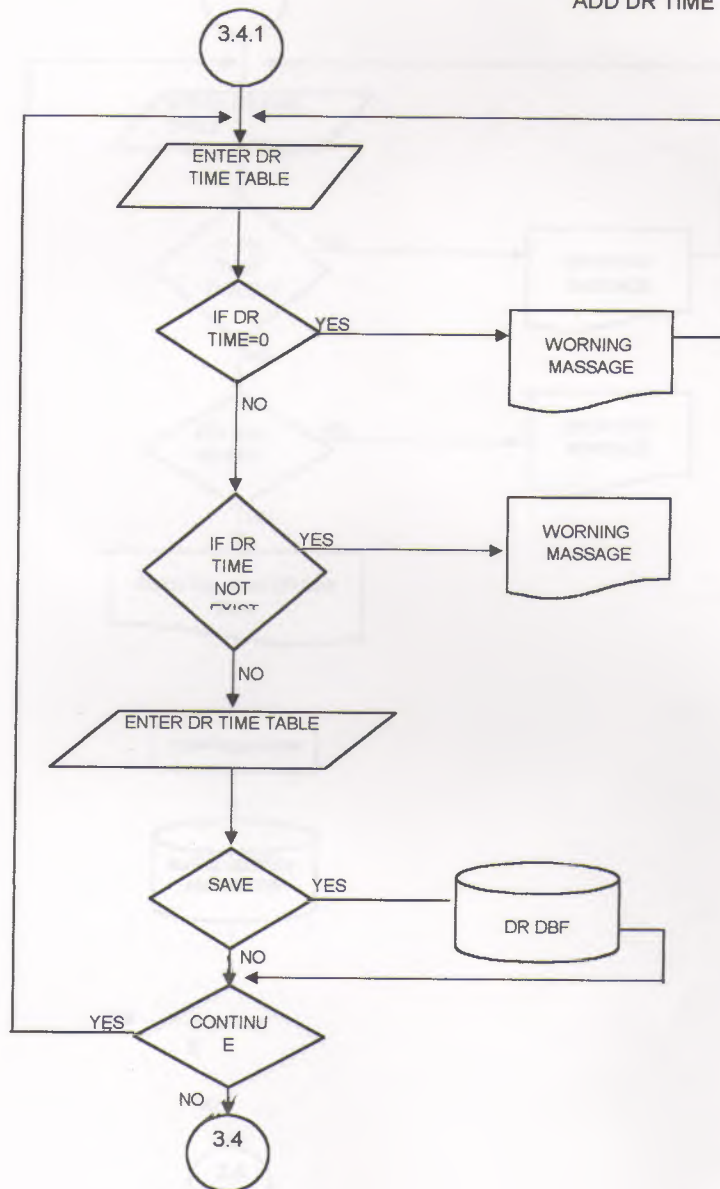


DR TIME TABLE PROCESS

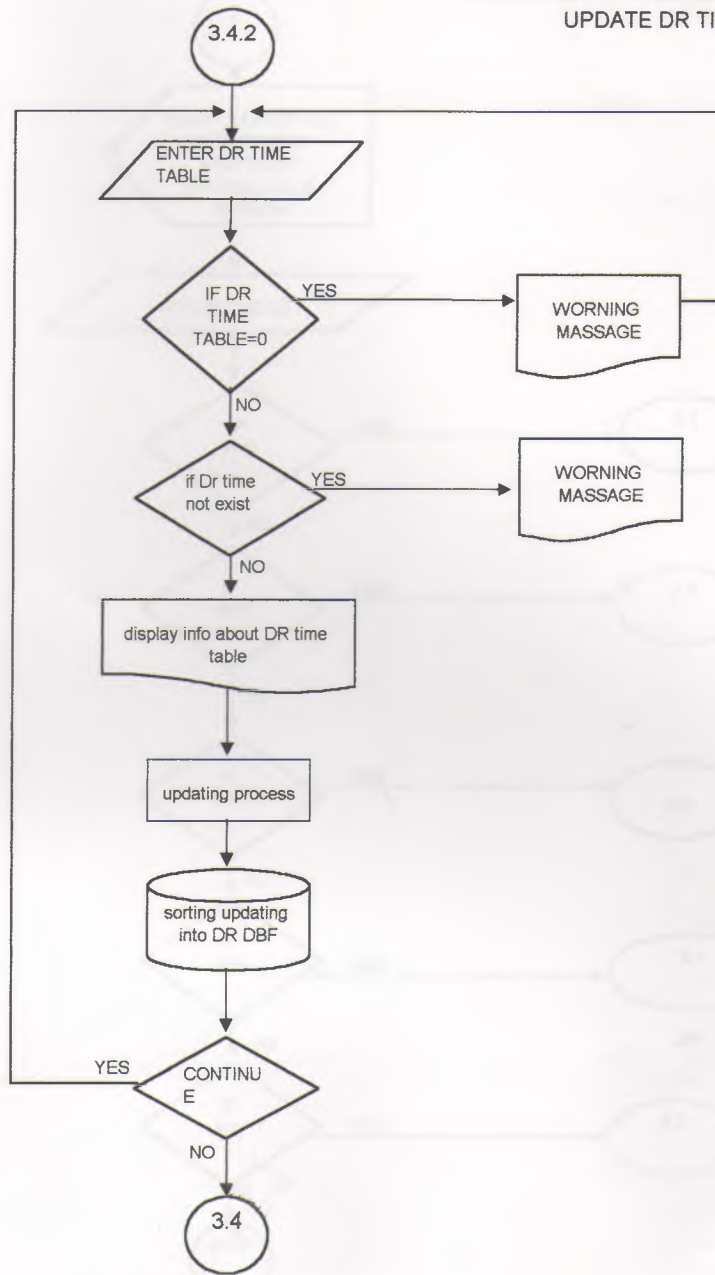
ADD DR TIME TABLE



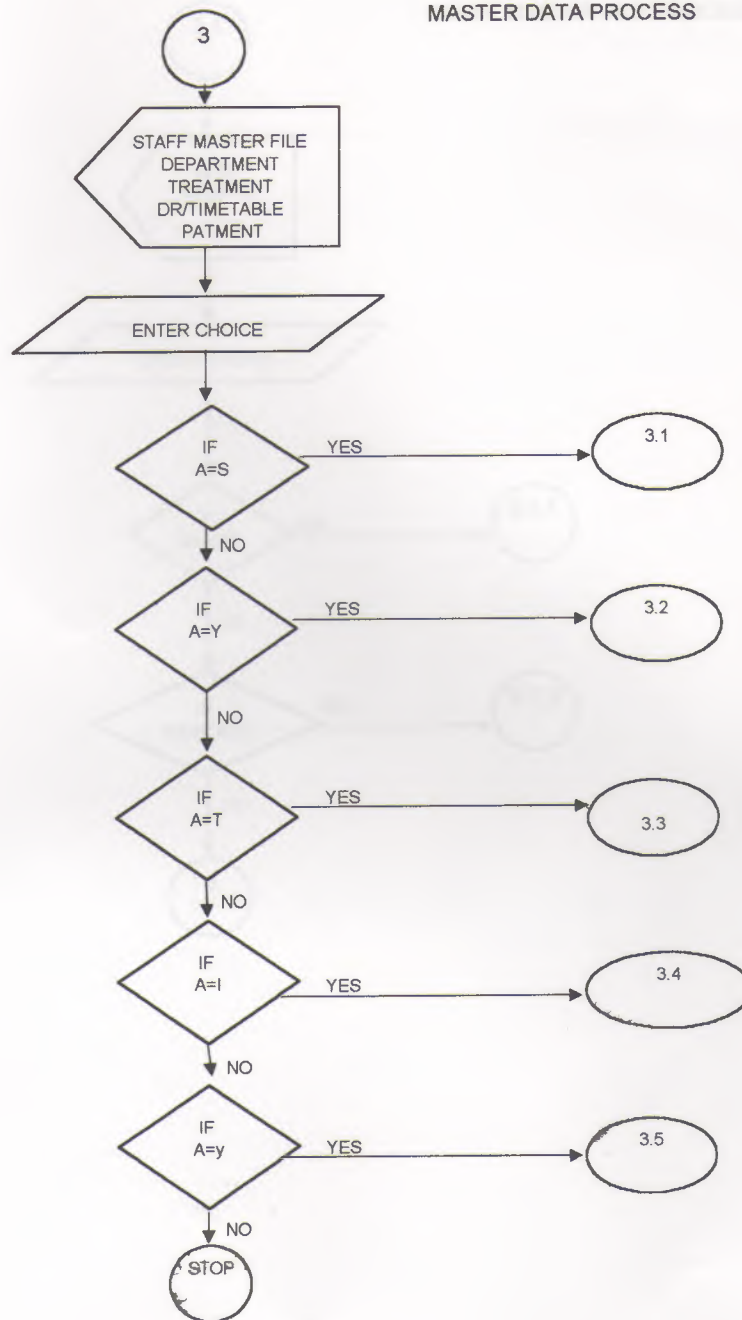
ADD DR TIME TABLE



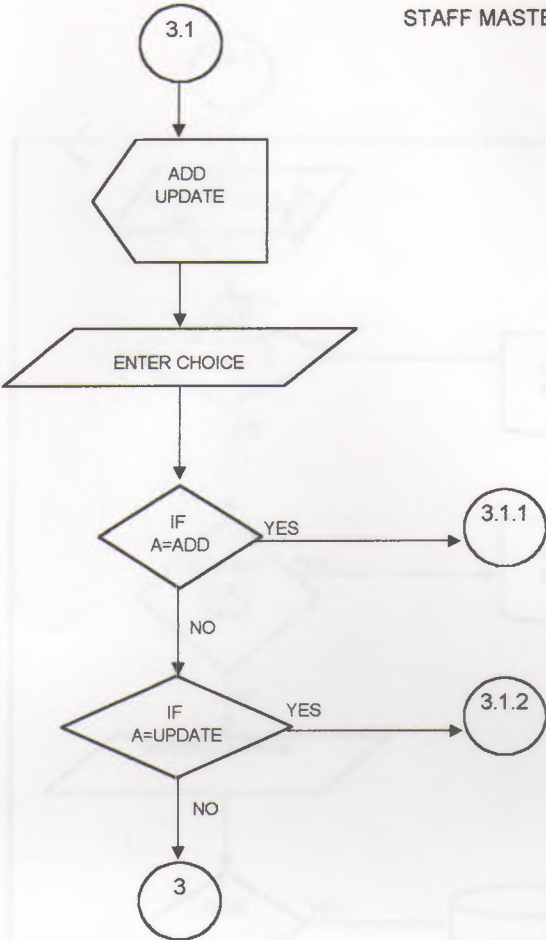
UPDATE DR TIME TABLE

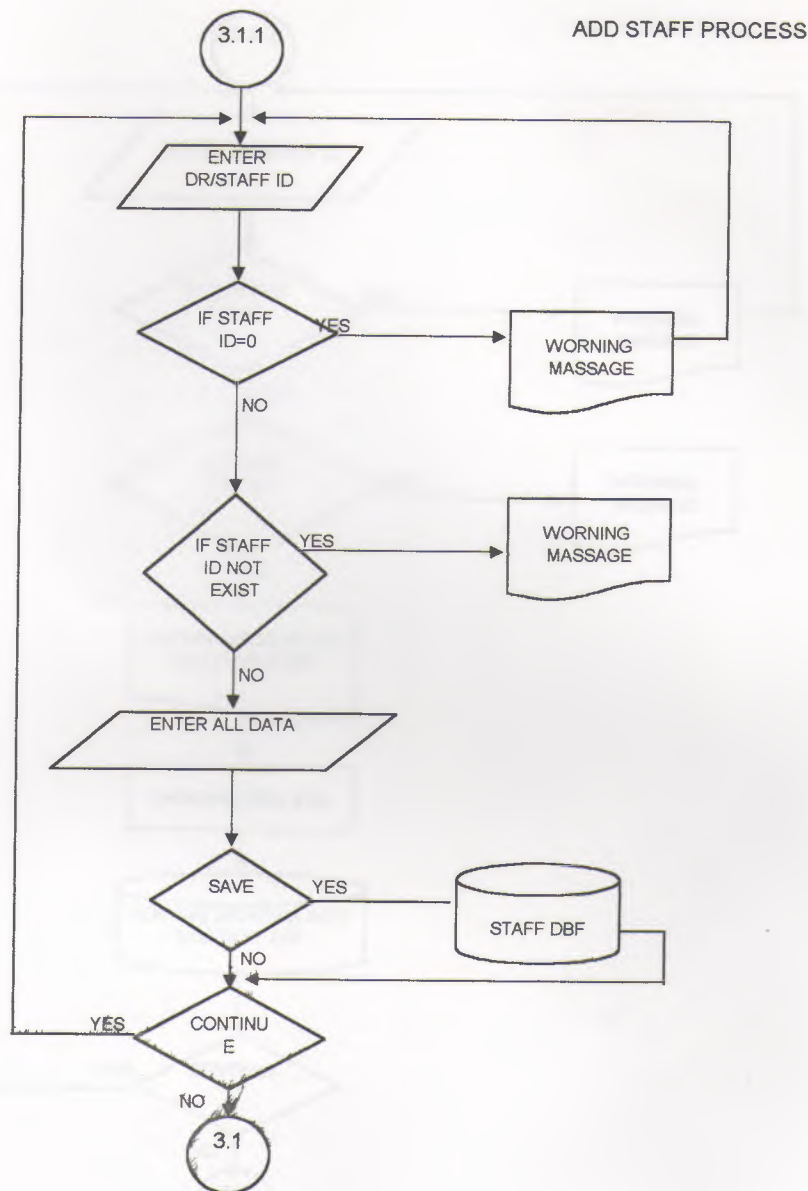


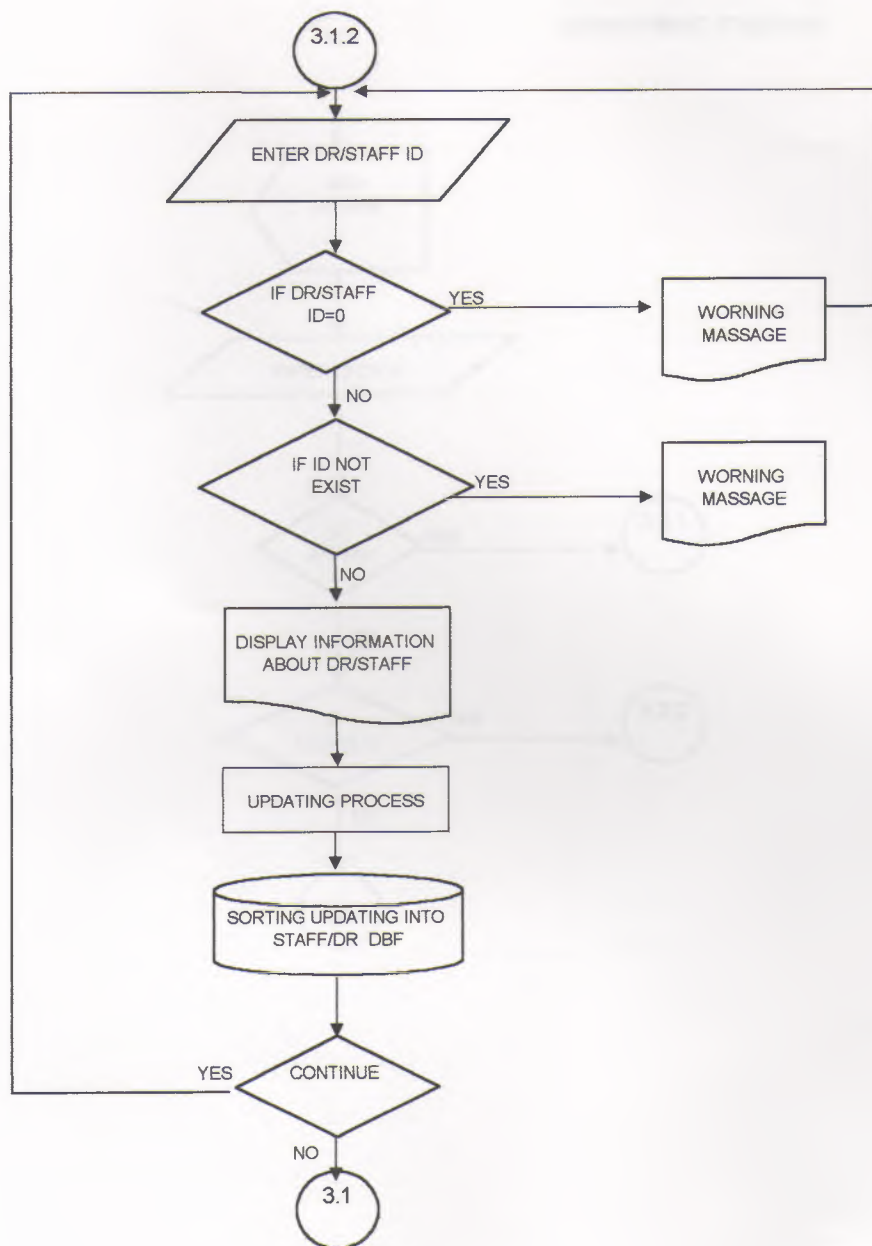
MASTER DATA PROCESS



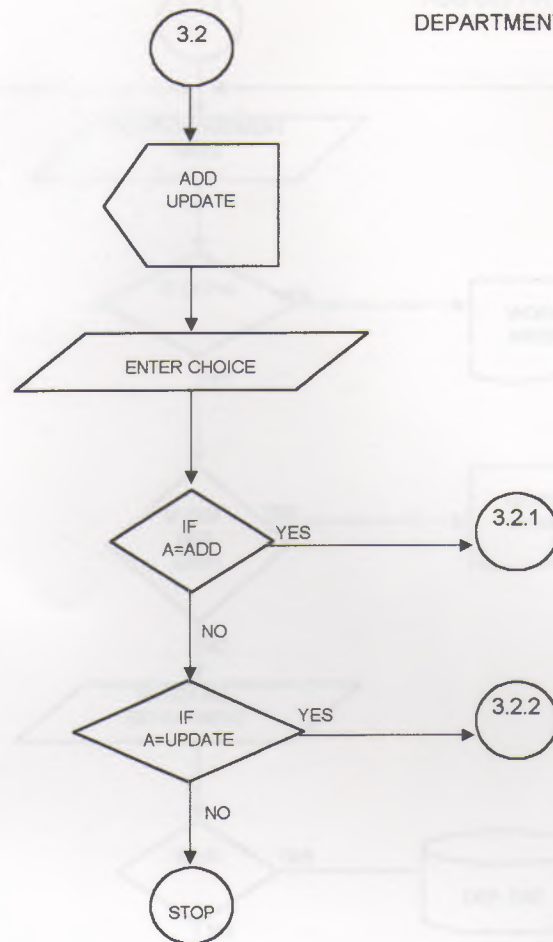
STAFF MASTER FILE PROCESS



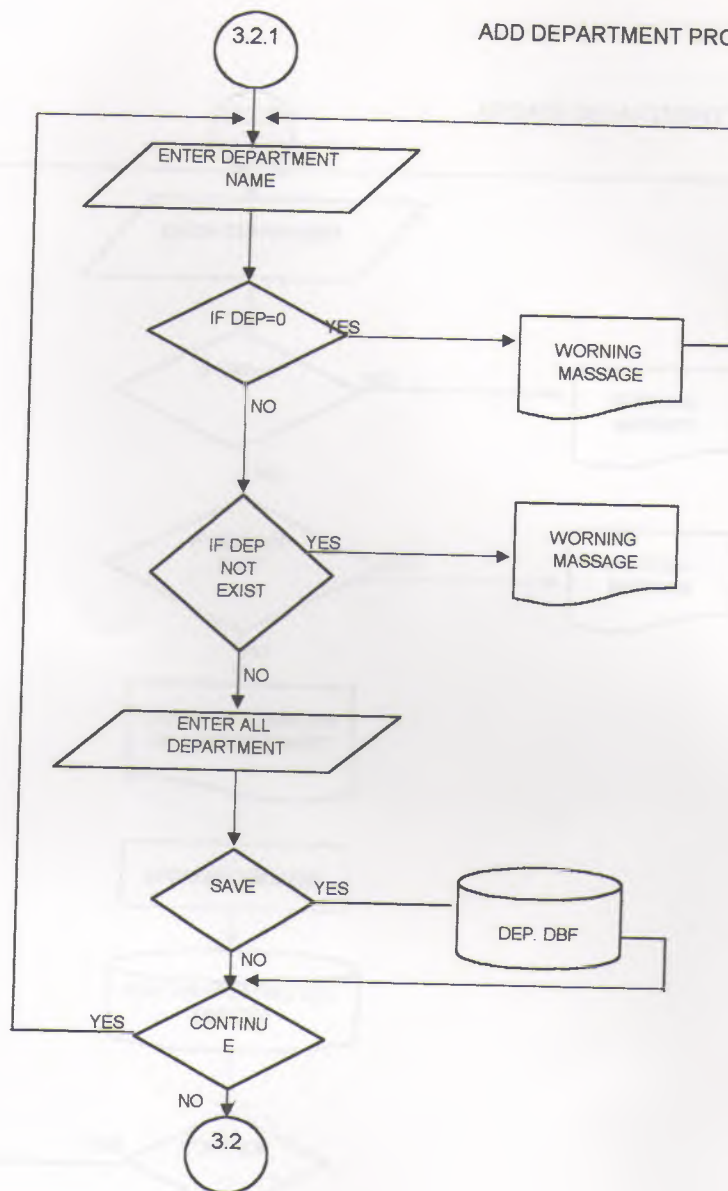




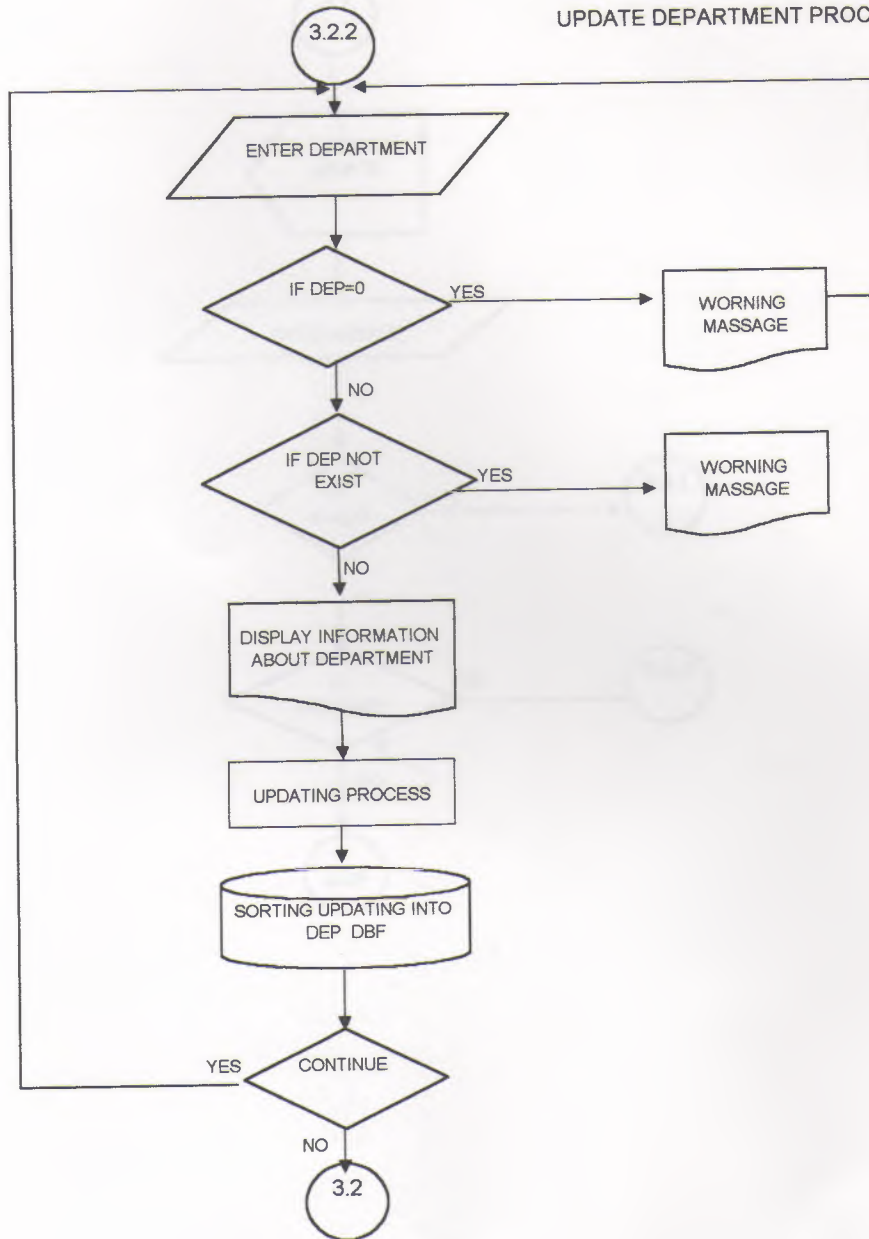
ADD DEPARTMENT PROCESS
DEPARTMENT PROCESS



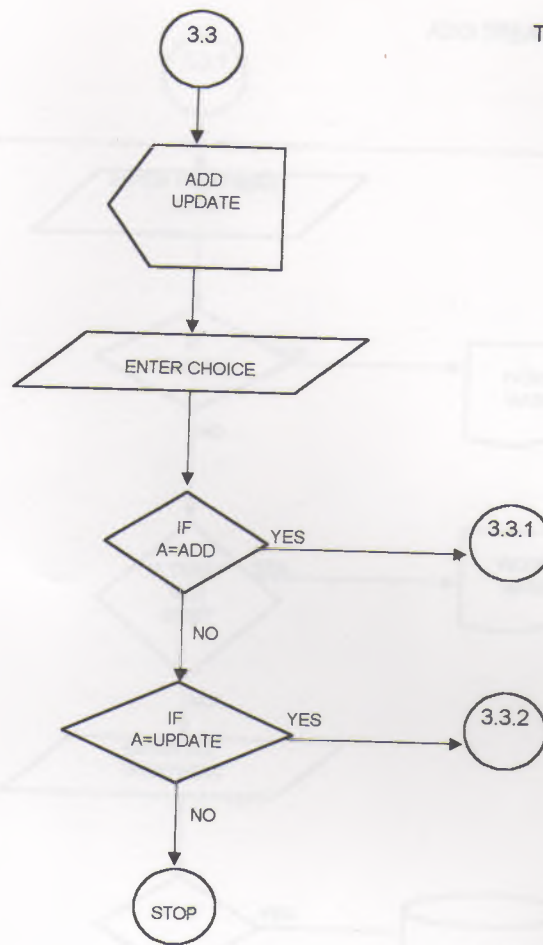
ADD DEPARTMENT PROCESS



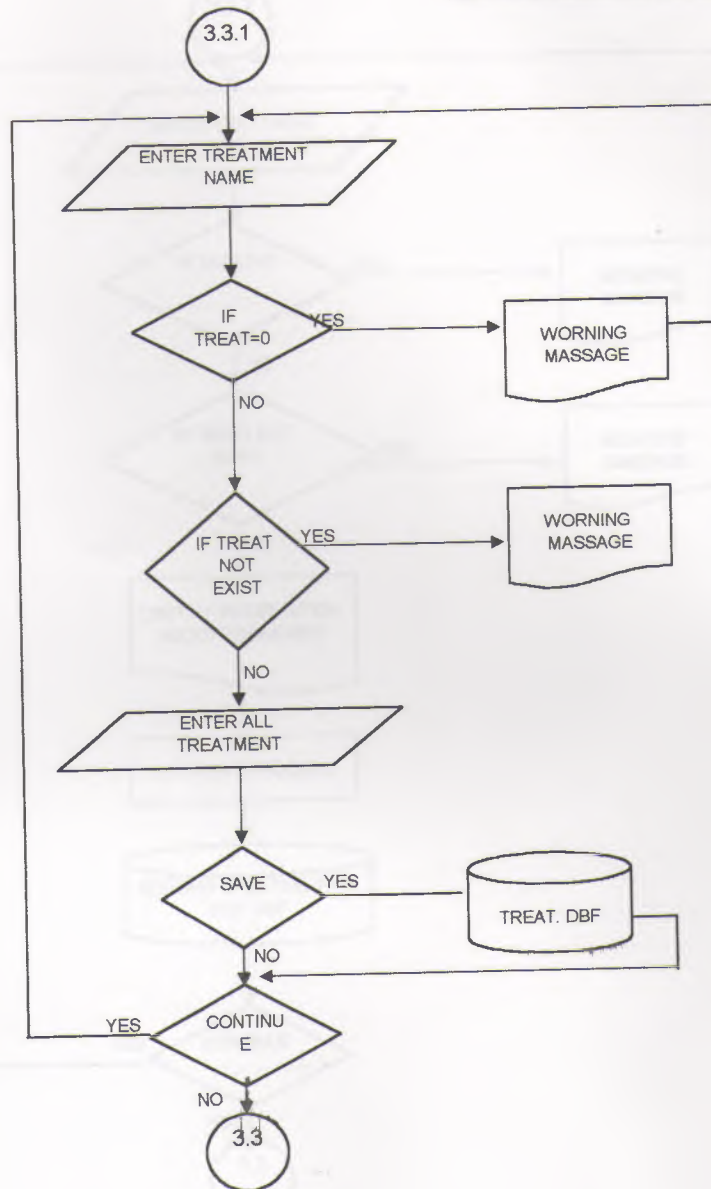
UPDATE DEPARTMENT PROCESS



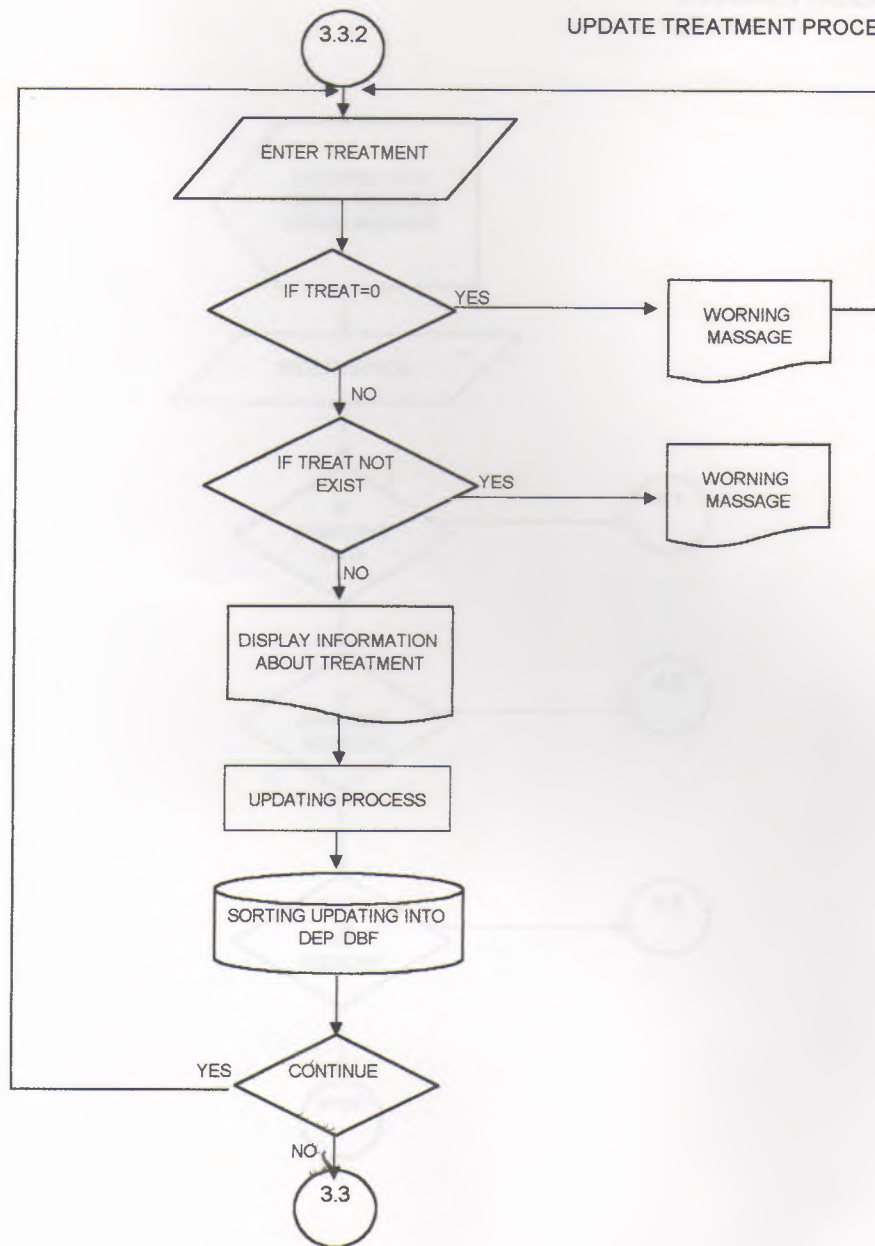
ADD THE TREATMENT PROCESS



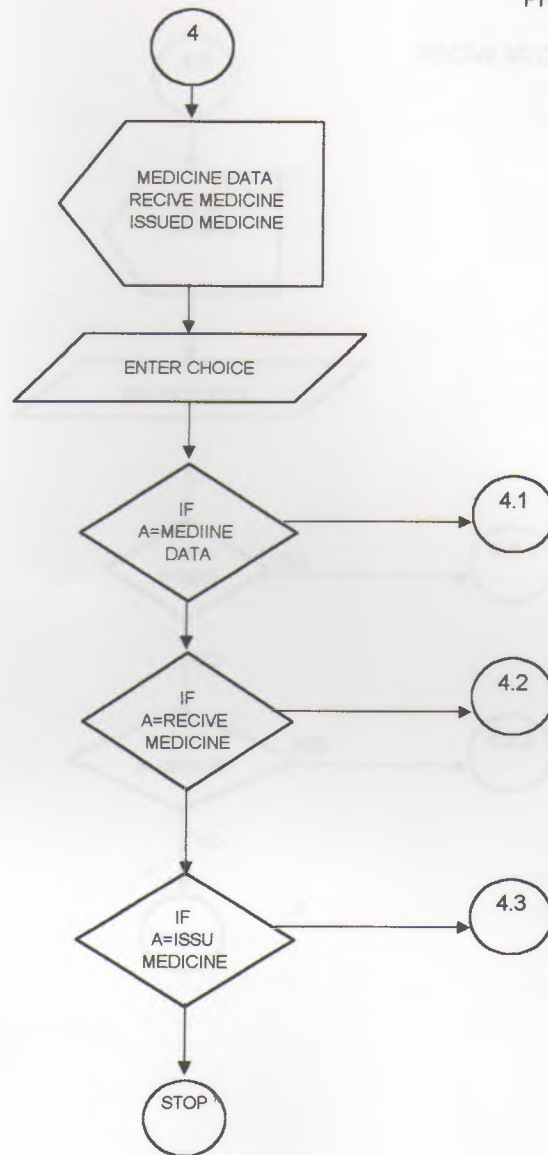
ADD TREATMENT PROCESS



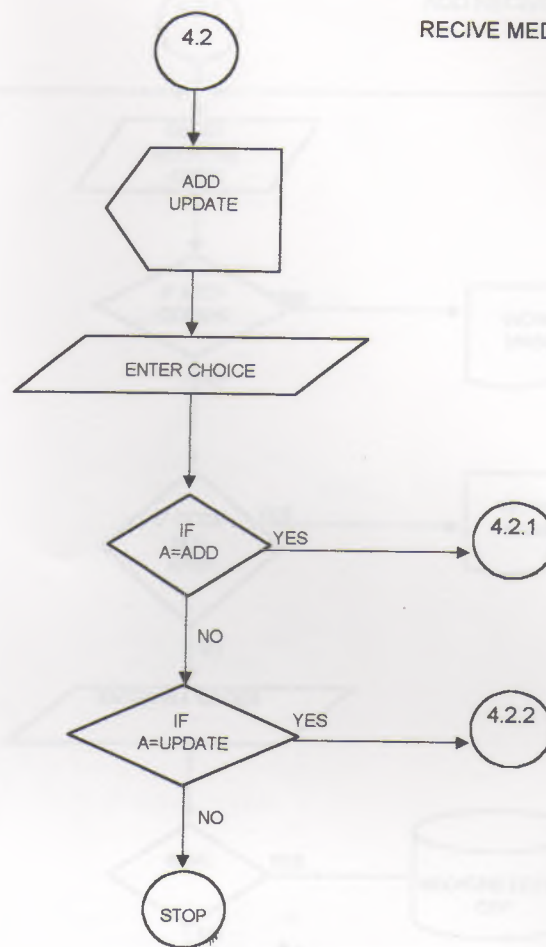
UPDATE TREATMENT PROCESS



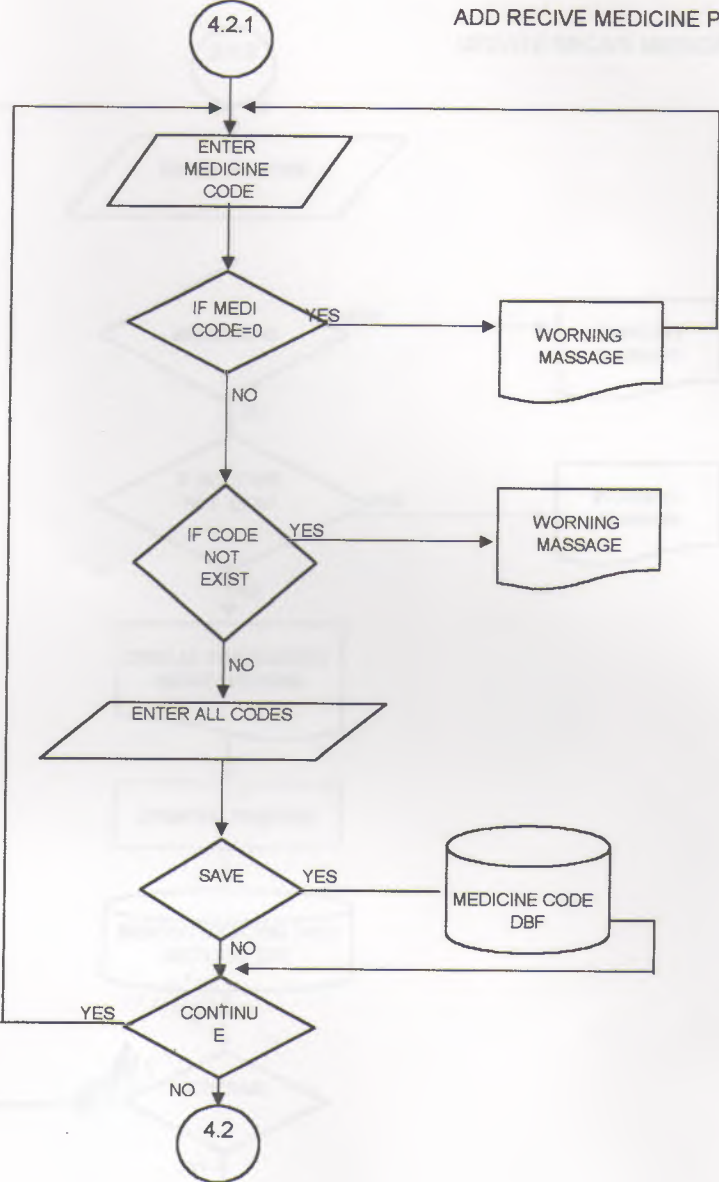
PHARMACY PROCESS



RECIVE MEDICINE PROCESS

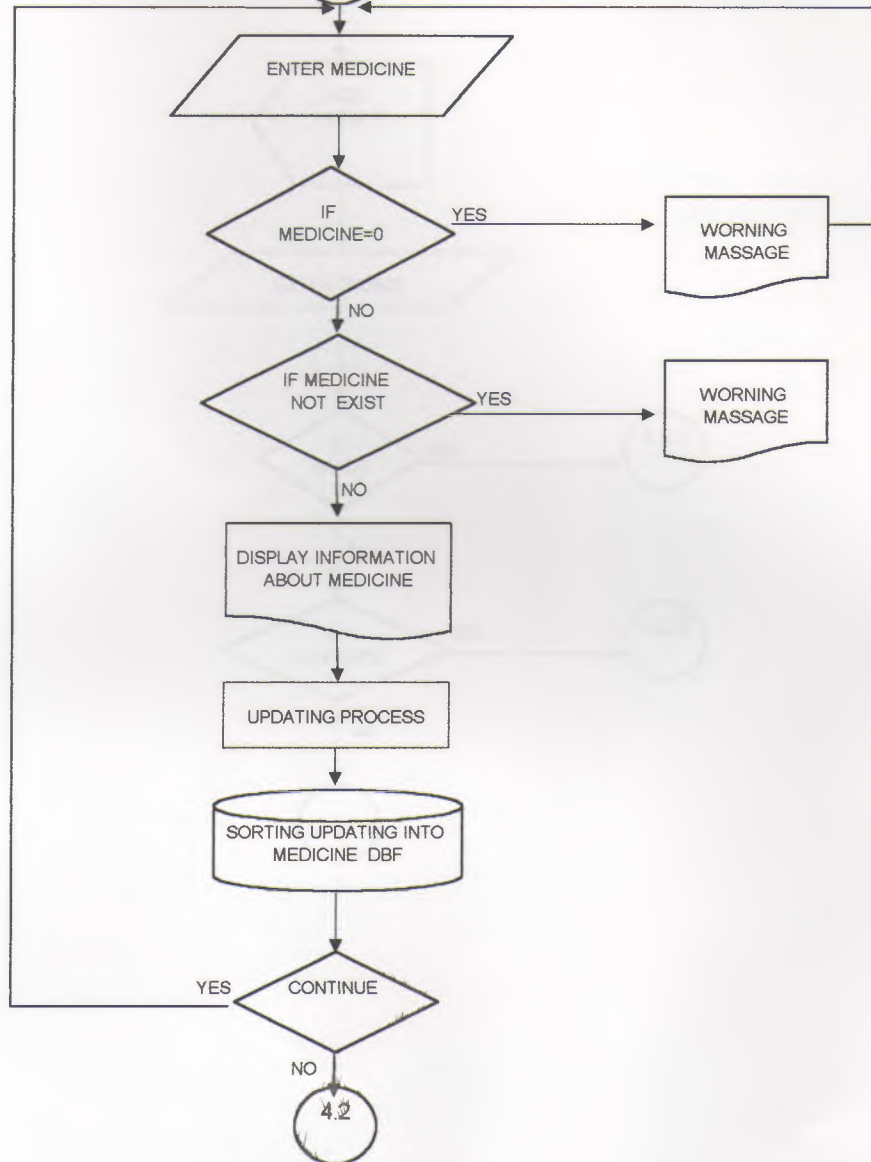


ADD RECIVE MEDICINE PROCESS

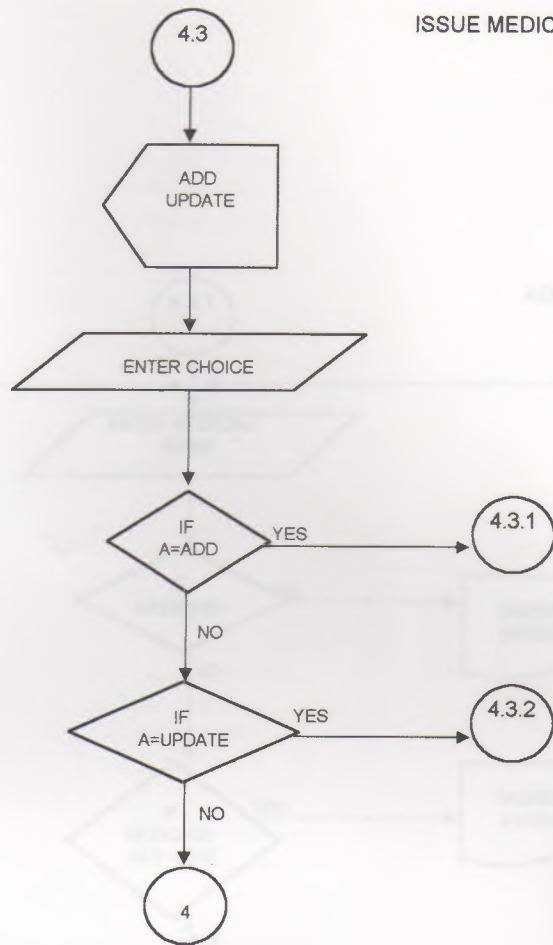


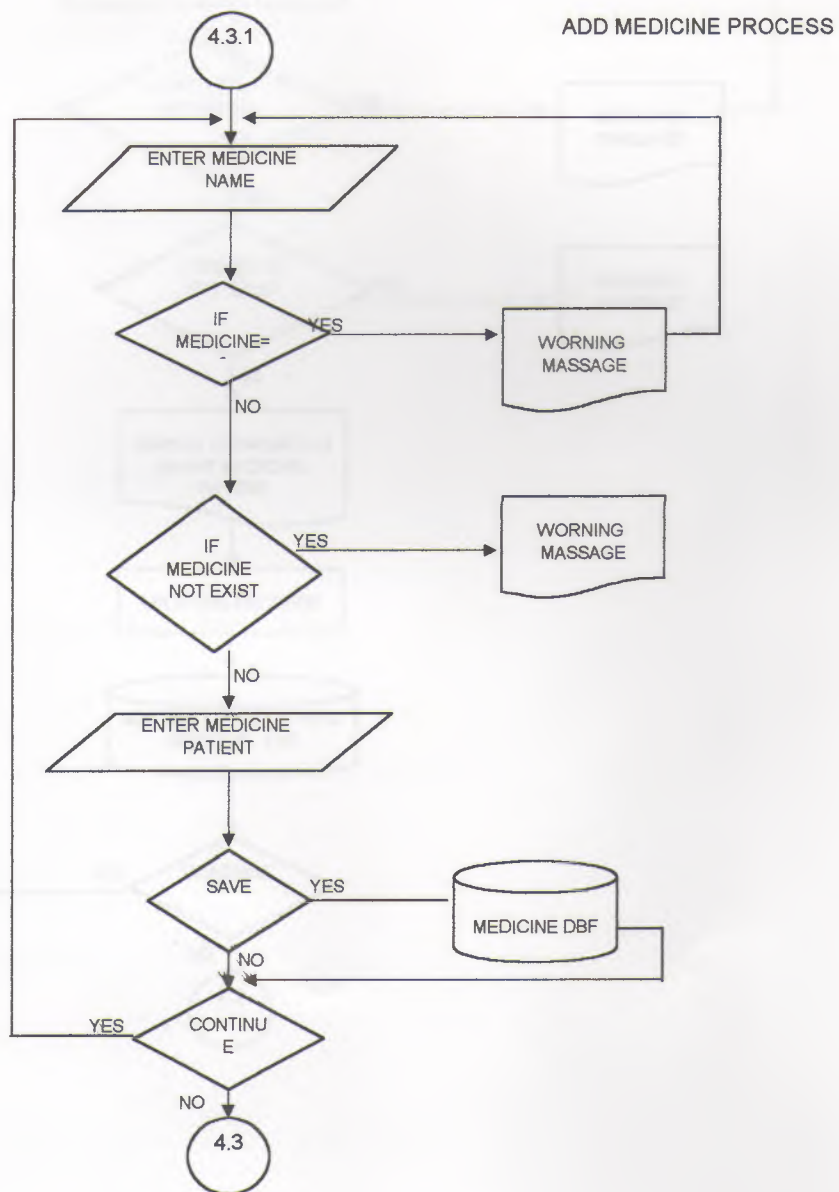
3.3.2

UPDATE RECIVE MEDICINE



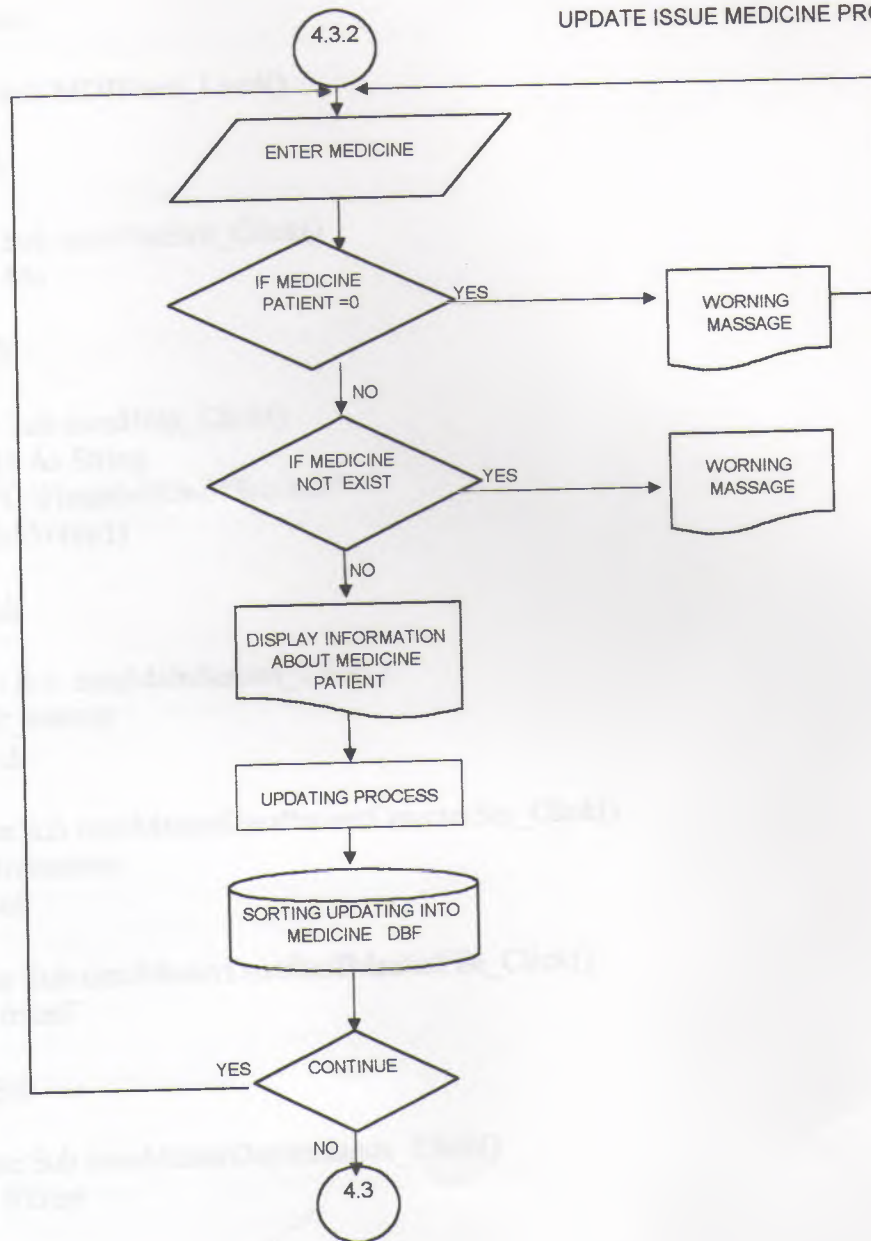
ISSUE MEDICINE PROCESS





SOURCE PROGRAM

UPDATE ISSUE MEDICINE PROCESS



SOURCE PROGRAM

```
1-fr_main:-  
Private Sub MDIForm_Load()  
End Sub  
Private Sub mnuFileExit_Click()  
Unload Me  
End Sub  
Private Sub mnuHelp_Click()  
Dim ap1 As String  
ap1 = "C:\Hospital\UserMan.htm"  
StartMeUp (ap1)  
End Sub  
Private Sub mnuMainScreen_Click()  
Load fr_startup  
End Sub  
Private Sub mnuMasterDataPatientCounterSet_Click()  
Load frcountset  
End Sub  
Private Sub mnuMasterDataStaffMasterFile_Click()  
Load frstaff  
End Sub  
Private Sub mnuMasterDepartments_Click()  
Load frDept  
End Sub  
Private Sub mnuMasterDoctorsTimeTable_Click()  
Load frDtm  
End Sub  
Private Sub mnuMasterPayment_Click()  
Load frPay  
End Sub
```



```
Private Sub mnuMasterTreatment_Click()
Load firtreat
```

```
End Sub
```

```
Private Sub mnuPatientMasterFile_Click()
Load frpatmd
End Sub
```

```
Private Sub mnuPatientVisitRecord_Click()
```

```
End Sub
```

```
Private Sub mnuPharmacyIssue_Click()
Load frmediss
```

```
End Sub
```

```
Private Sub mnuPharmacyMedicineData_Click()
Load frmeddat
```

```
End Sub
```

```
Private Sub mnuPharmacyReceive_Click()
Load frmedrec
```

```
End Sub
```

```
Private Sub mnuWindowArrangeIcon_Click()
Me.Arrange vbArrangeIcons
End Sub
```

```
Private Sub mnuWindowCascade_Click()
Me.Arrange vbCascade
End Sub
```

```
Private Sub mnuWindowTileHorizontal_Click()
Me.Arrange vbTileHorizontal
End Sub
```

```
Private Sub mnuWindowTileVertical_Click()
Me.Arrange vbTileVertical
End Sub
```

```
2-fr_startup:-
```

```
Private Sub cmdFPID_Click()
On Error GoTo pid_err
```

```

If Len(Me.Text4.Text) <> 0 Then
Screen.MousePointer = vbHourglass
Load frpatmd
frpatmd.Command1.Enabled = False
Dim sql3 As String
sql3 = "SELECT * FROM Patient WHERE pnum = "
sql3 = sql3 & fr_startup.Text4.Text
frpatmd.Adodc1.RecordSource = sql3
frpatmd.Adodc1.Refresh
Screen.MousePointer = vbDefault
Else
MsgBox "You have to enter the patient ID.", vbCritical, "Missing data"
Cls
End If
Exit Sub

pid_err:
Screen.MousePointer = vbDefault
Cls
End Sub

Private Sub cmdFPname_Click()
On Error GoTo pnam_err
If Len(Me.Text3.Text) <> 0 Then
Screen.MousePointer = vbHourglass
Load frfinPnam
Dim sql2 As String
sql2 = "SELECT ptel, pnum, pfnm, plnm, ppay, pcom FROM Pbynam WHERE pfnm = "
sql2 = sql2 & fr_startup.Text3.Text & ""
frfinPnam.Adodc2.RecordSource = sql2
frfinPnam.Adodc2.Refresh
frfinPnam.Label2.Caption = "Number of records found : " &
frfinPnam.Adodc2.Recordset.RecordCount
Screen.MousePointer = vbDefault
Else
MsgBox "You have to enter a name.", vbCritical, "Missing data"
Cls
End If
Exit Sub

pnam_err:
Screen.MousePointer = vbDefault
Cls
End Sub

Private Sub cmdFPtel_Click()
On Error GoTo ptel_err
If Len(Me.Text2.Text) <> 0 Then
Screen.MousePointer = vbHourglass

```

```

Load frfinPtel
Dim sql1 As String
sql1 = "SELECT ptel, pnum, pfnm, plnm, ppay, pcom FROM PbyTel WHERE ptel = "
sql1 = sql1 & fr_startup.Text2.Text & ""
frfinPtel.Adodc1.RecordSource = sql1
frfinPtel.Adodc1.Refresh
frfinPtel.Label1.Caption = "Number of records found : " &
frfinPtel.Adodc1.Recordset.RecordCount
Screen.MousePointer = vbDefault
Else
MsgBox "You have to enter a telephone number.", vbCritical, "Missing data"
Cls
End If

Exit Sub

ptel_err:
Screen.MousePointer = vbDefault
Cls

End Sub

Private Sub cmdPMF_Click()
Load frpatmd

End Sub

Private Sub cmdPVR_Click()
On Error GoTo pvst_err
If Len(Me.Text5.Text) <> 0 Then
Screen.MousePointer = vbHourglass
Load frPvisit
Dim sql4 As String
sql4 = "SELECT * FROM visit_rec WHERE pnum = "
sql4 = sql4 & fr_startup.Text5.Text & " order by date"
frPvisit.AdodcPV.RecordSource = sql4
frPvisit.AdodcPV.Refresh
frPvisit.LabelPV.Caption = "Number of visits : " &
frPvisit.AdodcPV.Recordset.RecordCount
Screen.MousePointer = vbDefault
Else
MsgBox "You have to enter patient ID.", vbCritical, "Missing data"
Cls
End If

Exit Sub

pvst_err:
Screen.MousePointer = vbDefault
Cls

```


Private Sub Form_Load()

Me.Height = 2800

End Sub

Private Sub cmdPVReg_Click()

Load frPvsreg

frPvsreg.SetFocus

frPvsreg.AdodcVR.Recordset.AddNew

frPvsreg.Text3vr.Text = Date

frPvsreg.Text4vr.Text = "CL"

frPvsreg.DComPID.SetFocus

frPvsreg.DComPID.Text = fr_startup.Text5.Text

frPvsreg.Text1vr.Text = fr_startup.Text5.Text

frPvsreg.DComDID.Text = ""

frPvsreg.DComDIS.Text = ""

frPvsreg.DComDCL.Text = ""

Private Sub cmdAdd_Click()

End Sub

Private Sub Command1_Click()

Load frmediss

Private Sub cmdUpd_Click()

End Sub

Private Sub Form_Load()

Me.Height = 7380

Me.Width = 5800

Text1.Text = Date

Me.Width = 4800

End Sub

Private Sub Timer1_Timer()

Me.Text1.Text = Date

Me.Adodc1.Recordset.AddNew

End Sub

End Sub

3-frcountset:-

Private Sub Command1_Click()

On Error GoTo set_err

Adodc1.Recordset.Save

Exit Sub

set_err: Sub Form_Load()

MsgBox "Entry is not allowed", vbCritical, "Enrty error"

Cls

Me.Width = 5800

End Sub



```
Private Sub Form_Load()  
Me.Height = 2800  
Me.Width = 4770  
Adodc1.Visible = False  
If Len(Me.Text1.Text) <> 0 Then  
    Me.Text1.Enabled = True  
    Me.Command1.Enabled = True  
End If  
End Sub
```

4-frDep:-

```
Private Sub cmAdd_Click()  
Me.AdodcDp.Recordset.AddNew  
End Sub
```

```
Private Sub cmUpd_Click()  
Me.AdodcDp.Recordset.Update
```

End Sub

```
Private Sub Form_Load()  
Me.Height = 3600  
Me.Width = 4800
```

End Sub

5-frDtm:-

```
Private Sub cmAdd_Click()  
Me.Adodcdt.Recordset.AddNew
```

End Sub

```
Private Sub cmUpd_Click()  
Me.Adodcdt.Recordset.Update
```

End Sub

```
Private Sub Form_Load()  
Me.Height = 4000  
Me.Width = 5300
```

End Sub

6-frfinPName:-

```
Private Sub cmdClofpmam_Click()
```

```
Unload Me
```

```
End Sub
```

7-frfinPtel:-

```
Private Sub cmAdd_Click()
```

```
Me.Adodcddt.Recordset.AddNew
```

```
End Sub
```

```
Private Sub cmUpd_Click()
```

```
Me.Adodcddt.Recordset.Update
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Me.Height = 4000
```

```
Me.Width = 5300
```

```
End Sub
```

8-frinvpr:-

```
Private Sub Command2_Click()
```

```
Dim Message As String
```

```
If Command2.Value = True Then
```

```
Message = Message + "THERE IS NO PRINTER CONECTED " + vbCr
```

```
MsgBox Message, vbOKOnly + vbInformation, "Printer Problem"
```

```
End If
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Dim sq3 As String
```

```
sq3 = "SELECT * FROM inv_pr WHERE vied = ""
```

```
sq3 = sq3 & frPvsreg.Text8vr.Text & "" AND (invp=0)"
```

```
frInvPr.Adodcinp.RecordSource = sq3
```

```
frInvPr.Adodcinp.Refresh
```

```
End Sub
```



```

Private Sub TimerPI_Timer()
DataEnvironment1.PrintInv1 frPvsreg.Text8vr
RepInv1.Show
TimerPI.Enabled = False
Screen.MousePointer = vbDefault

```

End Sub

9-frmdstock:-

```

Private Sub Command1_Click()
Unload Me

```

End Sub

```

Private Sub Form_Load()

```

```

Me.Height = 1940

```

```

Me.Width = 4800

```

End Sub

10-frmeddat:-

```

Private Sub cmclose_Click()

```

```

Unload Me

```

End Sub

```

Private Sub cmmdadd_Click()

```

```

Me.Adodcmd.Recordset.AddNew

```

End Sub

```

Private Sub cmmdupd_Click()

```

```

Me.Adodcmd.Recordset.Update

```

End Sub

```

Private Sub Form_Load()

```

```

Me.Height = 6300

```

```

Me.Width = 7150

```

End Sub

11-frmediss:-

```

Option Explicit

```

```

Dim RSMID As New ADODB.Recordset

```

```

Private Sub Adodcmdiss_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    On Error Resume Next
    DComMID.BoundText = Adodcmdiss.Recordset("mcod")
    ShowGroupmid

```

End Sub

```

Private Sub cmExit_Click()
Unload Me

```

End Sub

```

Private Sub cmmdissadd_Click()
On Error GoTo add_err

```

```

Me.Adodcmdiss.Recordset.AddNew
Text2.Text = Text1.Text + 1
Me.DComMID.Text = ""
Exit Sub
add_err:
MsgBox Err.Description

```

End Sub

```

Private Sub cmmdissupd_Click()
On Error GoTo upd_err

```

```

update3
Exit Sub

```

```

upd_err:
MsgBox Err.Description

```

End Sub

```

Private Sub Command1_Click()
frmdstock.Show

```

```

If DataEnvironment1.rsmdstock.State And adStateOpen Then
    DataEnvironment1.rsmdstock.Close
End If
Screen.MousePointer = vbHourglass
Me.Timer2.Enabled = True

```

```

End Sub

Private Sub Command2_Click()
Dim Message As String
If Command2.Value = True Then
Message = Message + "THERE IS NO PRINTER CONECTED " + vbCr
MsgBox Message, vbOKOnly + vbInformation, "Printer Problem"
End If
End Sub

Private Sub DComMID_Change()
If DComMID.MatchedWithList = False Then
Exit Sub
Else
Text4.Text = DComMID.BoundText
End If
End Sub

Private Sub Form_Load()
Me.Height = 5730
Me.Width = 6250
Me.Adodcmdiss.Recordset.AddNew
Text2.Text = Text1.Text + 1
Me.DComMID.Text = ""
RSMID.Open "medic_md", Adodcmdiss.Recordset.ActiveConnection
Set DComMID.RowSource = RSMID
ShowGroupmid
End Sub

Private Sub ShowGroupmid()
On Error Resume Next
RSMID.Bookmark = DComMID.SelectedItem
End Sub

Private Sub Form_Unload(Cancel As Integer)
RSMID.Close
End Sub

Private Sub update3()
'update
On Error GoTo update_err1
If Adodcmdiss.Recordset.EOF Then
Adodcmdiss.Recordset.MovePrevious
Adodcmdiss.Recordset.MoveLast
Else

```



```

Adodcmdiss.Recordset.MoveNext
Adodcmdiss.Recordset.MovePrevious
'Me.Adodc1.Refresh
'Text1.Refresh
End If
Exit Sub
update_err1:
MsgBox Err.Description & "Changes will not be saved", vbCritical, "Error !"

```

```

End Sub

```

```

Private Sub Timer1_Timer()
'Me.Adodcmdiss.Refresh
update3
Screen.MousePointer = vbDefault
Timer1.Enabled = False
End Sub

```

```

End Sub

```

```

Private Sub Timer2_Timer()

```

```

Load frmstock
Timer2.Enabled = False
Screen.MousePointer = vbDefault
End Sub

```

12-fredrec

```

Option Explicit
Dim RSMRC As New ADODB.Recordset

```

```

Private Sub Adodcmrec_MoveComplete(ByVal adReason As ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
On Error Resume Next
DComMRC.BoundText = Adodcmrec.Recordset("mcod")
ShowGroupmrc
End Sub

```

```

End Sub

```

```

Private Sub cmAdd_Click()
On Error GoTo add_err

```

```

Me.Adodcmrec.Recordset.AddNew
DComMRC.Text = ""
Text1.SetFocus

Exit Sub

add_err:
MsgBox Error.Description

End Sub

Private Sub cmExit_Click()
Unload Me

End Sub

Private Sub cmUpd_Click()
On Error GoTo upd_err

Me.Adodcmrec.Recordset.Update
Exit Sub

upd_err:
MsgBox Err.Description

End Sub

Private Sub DComMRC_Change()
If DComMRC.MatchedWithList = False Then
Exit Sub
Else
Text2.Text = DComMRC.BoundText
End If

End Sub

Private Sub Form_Load()
Me.Height = 3720
Me.Width = 6250
RSMRC.Open "medic_md", Adodcmrec.Recordset.ActiveConnection
Set DComMRC.RowSource = RSMRC
ShowGroupmrc

End Sub

Private Sub ShowGroupmrc()
On Error Resume Next
RSMRC.Bookmark = DComMRC.SelectedItem

End Sub

```

```
Private Sub Form_Unload(Cancel As Integer)
RSMRC.Close
```

```
End Sub
```

```
Private Sub update2()
```

```
'update
```

```
On Error GoTo update_err1
```

```
If Adodcmrec.Recordset.EOF Then
```

```
Adodcmrec.Recordset.MovePrevious
```

```
Adodcmrec.Recordset.MoveLast
```

```
Else
```

```
Adodcmrec.Recordset.MoveNext
```

```
Adodcmrec.Recordset.MovePrevious
```

```
Me.Adodc1.Refresh
```

```
'Text5.Refresh
```

```
End If
```

```
Exit Sub
```

```
update_err1:
```

```
MsgBox Err.Description & "Changes will not be saved", vbCritical, "Error !"
```

```
End Sub
```

```
13-frlogin:-
```

```
Option Explicit
```

```
Public LoginSucceeded As Boolean
```

```
Private Sub cmdCancel_Click()
```

```
'set the global var to false
```

```
'to denote a failed login
```

```
LoginSucceeded = False
```

```
Me.Hide
```

```
End Sub
```

```
Private Sub cmdOK_Click()
```

```
'check for correct password
```

```
If txtPassword = "hota" Then
```

```
'place code to here to pass the
```

```
'success to the calling sub
```

```
'setting a global var is the easiest
```

```
LoginSucceeded = True
```

```
Me.Hide
```

```
fr_startup.Show
```

```
Else
```

```
MsgBox "Invalid Password, try again!", , "Login"
```

```
txtPassword.SetFocus
```

```
SendKeys "{Home}+{End}"
```



```
End If
End Sub
```

```
Private Sub Form_Load()
```

```
End Sub
```

```
Private Sub txtUserName_Change()
txtUserName.Text = "mahmoud&amar"
End Sub
```

14-frPatmd: -

```
Option Explicit
Dim RSpay As New ADODB.Recordset
```

```
Private Sub Adodc1_MoveComplete(ByVal adReason As ADODB.EventReasonEnum,
ByVal pError As ADODB.Error, adStatus As ADODB.EventStatusEnum, ByVal
pRecordset As ADODB.Recordset)
On Error Resume Next
DataCombopay.BoundText = Adodc1.Recordset("ppay")
ShowGroup1
```

```
End Sub
```

```
Private Sub Command1_Click()
'Add
On Error Resume Next
update1
Me.Adodc2.Refresh
Text5.Refresh
```

```
Adodc1.Recordset.AddNew
Text1.Text = Text5.Text + 1
Text6.Text = "Credit"
Text2.SetFocus
```

```
End Sub
```

```
Private Sub update1()
'update
On Error GoTo update_err1
If Adodc1.Recordset.EOF Then
Adodc1.Recordset.MovePrevious
Adodc1.Recordset.MoveLast
Else
Adodc1.Recordset.MoveNext
```

```

Adodc1.Recordset.MovePrevious
Me.Adodc2.Refresh
Text5.Refresh
End If
Exit Sub
update_err1:
MsgBox Err.Description & "Changes will not be saved", vbCritical, "Error !"

End Sub

Private Sub Command2_Click()
update1
End Sub

Private Sub Command3_Click()
Me.Adodc1.Recordset.Delete
update1
End Sub

Private Sub Command4_Click()
Unload Me
End Sub

Private Sub DataCombopay_Change()
If DataCombopay.MatchedWithList = False Then
'MsgBox "Wrong entry"
'DataCombo1.SetFocus
Exit Sub
Else
Text6.Text = DataCombopay.BoundText
End If
End Sub

Private Sub Form_Load()
Me.Height = 5010
Me.Width = 6930

RSpay.Open "payment", Adodc1.Recordset.ActiveConnection
Set DataCombopay.RowSource = RSpay
ShowGroup1
End Sub

```

```
Private Sub ShowGroup1()
    On Error Resume Next
    RSpay.Bookmark = DataCombopay.SelectedItem
```

```
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)
    'On Error GoTo start_err1
```

```
RSpay.Close
'If Adodc1.Recordset.EOF Then
'Adodc1.Recordset.MovePrevious
'Else
```

```
'Adodc1.Recordset.MoveLast
'End If
```

```
Exit Sub
```

```
start_err1:
```

```
MsgBox Err.Description & "Changes will not be saved", vbCritical, "Error !"
```

```
End Sub
```

```
15-frpay:-
```

```
Private Sub cmAdd_Click()
    Me.AdodcPy.Recordset.AddNew
```

```
End Sub
```

```
Private Sub cmUpdate_Click()
    Me.AdodcPy.Recordset.Update
```

```
End Sub
```

```
Private Sub Form_Load()
    Me.Height = 3600
    Me.Width = 4800
```

```
End Sub
```

```
16-frPvisit:-
```

```
Private Sub cmdAddPV_Click()
```

```
    On Error GoTo AddErr
```

```
    Load frPvsreg
```

```
    Load frPvsreg
```



```

frPvsreg.SetFocus
frPvsreg.AdodcVR.Recordset.AddNew
frPvsreg.Text3vr.Text = Date
frPvsreg.DComPID.SetFocus
frPvsreg.DComPID.Text = fr_startup.Text5.Text
frPvsreg.Text1vr.Text = fr_startup.Text5.Text
frPvsreg.DComDID.Text = ""
frPvsreg.DComDIS.Text = ""
frPvsreg.DComDCL.Text = ""

Exit Sub
AddErr:
    Cls
    MsgBox Err.Description

End Sub

Private Sub cmdClosePV_Click()
Unload Me

End Sub

Private Sub DataGridPV_Click()

End Sub

Private Sub Form_Load()
Me.Height = 4700
Me.Width = 10815

End Sub

17-frPvsreg:-
Option Explicit
Dim RSDCL As New ADODB.Recordset
Dim RSDIS As New ADODB.Recordset
Dim RSDID As New ADODB.Recordset
Dim RSPID As New ADODB.Recordset

Private Sub AdodcVR_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    On Error Resume Next
    DComPID.BoundText = AdodcVR.Recordset("pnum")
    ShowGrouppid
    DComDID.BoundText = AdodcVR.Recordset("sidn")
    ShowGroupdid

```

```

DComDIS.BoundText = AdodcVR.Recordset("tcod")
ShowGroupdis
DComDCL.BoundText = AdodcVR.Recordset("dept")
ShowGroupdcl
End Sub

Private Sub cmdvradd_Click()
On Error GoTo vradd_err
Unload Me
Load frPvsreg
frPvsreg.SetFocus
frPvsreg.AdodcVR.Recordset.AddNew
frPvsreg.Text3vr.Text = Date
frPvsreg.DComPID.SetFocus
frPvsreg.DComPID.Text = fr_startup.Text5.Text
frPvsreg.Text1vr.Text = fr_startup.Text5.Text
frPvsreg.DComDID.Text = ""
frPvsreg.DComDIS.Text = ""
frPvsreg.DComDCL.Text = ""
Exit Sub
vradd_err:
MsgBox Err.Description
Resume Next

End Sub

Private Sub cmdvrclos_Click()
Unload Me

End Sub

Private Sub cmdvrref_Click()
'Dim dv As Integer
'dv = (Day(Text3vr.Text) * 1) + (Month(Text3vr.Text) * 30) + (Year(Text3vr.Text) *
365.25)
'Text8vr.Text = Text1vr.Text & Text3vr.Text & Text4vr.Text

'update
On Error GoTo update_err1
Text8vr.Text = Text1vr.Text & Round((Day(Text3vr.Text) * 1) +
(Month(Text3vr.Text) * 30) + (Year(Text3vr.Text) * 365.25)) & Text4vr.Text
If AdodcVR.Recordset.EOF Then
AdodcVR.Recordset.MovePrevious
AdodcVR.Recordset.MoveLast
Else
AdodcVR.Recordset.MoveNext
AdodcVR.Recordset.MovePrevious
End If
'DataEnvironment1.Command3
Dim addinv As New ADODB.Command

```

```

Dim sq As String
addinv.ActiveConnection = "Provider=Microsoft.Jet.OLEDB.3.51;" & "Data
Source=c:\hospital\hospital1.mdb"
sq = "INSERT INTO `inv_pr` (pnum, vcd, invp, cost, tdis, tcod) SELECT
visit_rec.pnum, visit_rec.vcod, visit_rec.invp, visit_rec.cost, Treatment.tdis,
visit_rec.tcod FROM Treatment, visit_rec WHERE Treatment.tcod = visit_rec.tcod
AND (visit_rec.invp = 0) AND (visit_rec.vcod="
sq = sq & frPvsreg.Text8vr.Text & ")"
addinv.CommandText = sq
addinv.Execute
Me.Timer1.Enabled = True
Screen.MousePointer = vbHourglass

Exit Sub
update_err1:
MsgBox Err.Description & "Changes will not be saved", vbCritical, "Error !"
Resume Next
End Sub

Private Sub Command1_Click()
Load frInvPr

End Sub

Private Sub DComDCL_Change()
If DComDCL.MatchedWithList = False Then
'MsgBox "Wrong entry"
'DataCombo1.SetFocus
Exit Sub
Else
Text4vr.Text = DComDCL.BoundText
End If

End Sub

Private Sub DComDID_Change()
If DComDID.MatchedWithList = False Then
'MsgBox "Wrong entry"
'DataCombo1.SetFocus
Exit Sub
Else
Text2vr.Text = DComDID.BoundText
End If

End Sub

Private Sub DComDIS_Change()
If DComDIS.MatchedWithList = False Then
'MsgBox "Wrong entry"
'DataCombo1.SetFocus

```



```

Exit Sub
Else
Text9vr.Text = DComDIS.BoundText
End If

End Sub

Private Sub DComPID_Change()
If DComPID.MatchedWithList = False Then
'MsgBox "Wrong entry"
'DataCombo1.SetFocus
Exit Sub
Else
Text1vr.Text = DComPID.BoundText
End If

End Sub

Private Sub Form_Load()
Me.Height = 5010
Me.Width = 7650
RSPID.Open "patient", AdodcVR.Recordset.ActiveConnection
Set DComPID.RowSource = RSPID
ShowGrouppid
RSDID.Open "staffq", AdodcVR.Recordset.ActiveConnection
Set DComDID.RowSource = RSDID
ShowGroupdid
RSDIS.Open "Treatmentq", AdodcVR.Recordset.ActiveConnection
Set DComDIS.RowSource = RSDIS
ShowGroupdis
RSDCL.Open "DepCling", AdodcVR.Recordset.ActiveConnection
Set DComDCL.RowSource = RSDCL
ShowGroupdcl
End Sub

Private Sub ShowGrouppid()
On Error Resume Next
RSPID.Bookmark = DComPID.SelectedItem

End Sub

Private Sub Form_Unload(Cancel As Integer)
RSPID.Close
RSDID.Close
RSDIS.Close
RSDCL.Close

End Sub
Private Sub ShowGroupdid()
On Error Resume Next

```

Private Sub RSDID_Bookmark = DComDID.SelectedItem

Me.Adodcst.Recordset.AddNew

End Sub

End Sub

Private Sub ShowGroupdis()

On Error Resume Next

RSDIS.Bookmark = DComDIS.SelectedItem

End Sub

Private Sub ShowGroupdcl()

On Error Resume Next

RSDCL.Bookmark = DComDCL.SelectedItem

Me.Width = 7000

End Sub

End Sub

Private Sub Timer1_Timer()

Dim upinv As New ADODB.Command

Dim sq2 As String

upinv.ActiveConnection = "Provider=Microsoft.Jet.OLEDB.3.51;" & "Data
Source=c:\hospital\hospital1.mdb"

sq2 = "UPDATE visit_rec SET invp = 1 WHERE (vcod="

sq2 = sq2 & frPvsreg.Text8vr.Text & ")"

upinv.CommandText = sq2

upinv.Execute

Screen.MousePointer = vbDefault

Timer1.Enabled = False

End Sub

18-firstaff:-

Private Sub cmAdd_Click()

Me.Adodcst.Recordset.AddNew

End Sub

Private Sub cmUpd_Click()

Me.Adodcst.Recordset.Update

End Sub

Private Sub Form_Load()

Me.Height = 5000

Me.Width = 7000

End Sub

19-ftreat:-

```
Private Sub cmAdd_Click()  
Me.Adodctr.Recordset.AddNew
```

```
End Sub
```

```
Private Sub cmUpd_Click()  
Me.Adodctr.Recordset.Update
```

```
End Sub
```

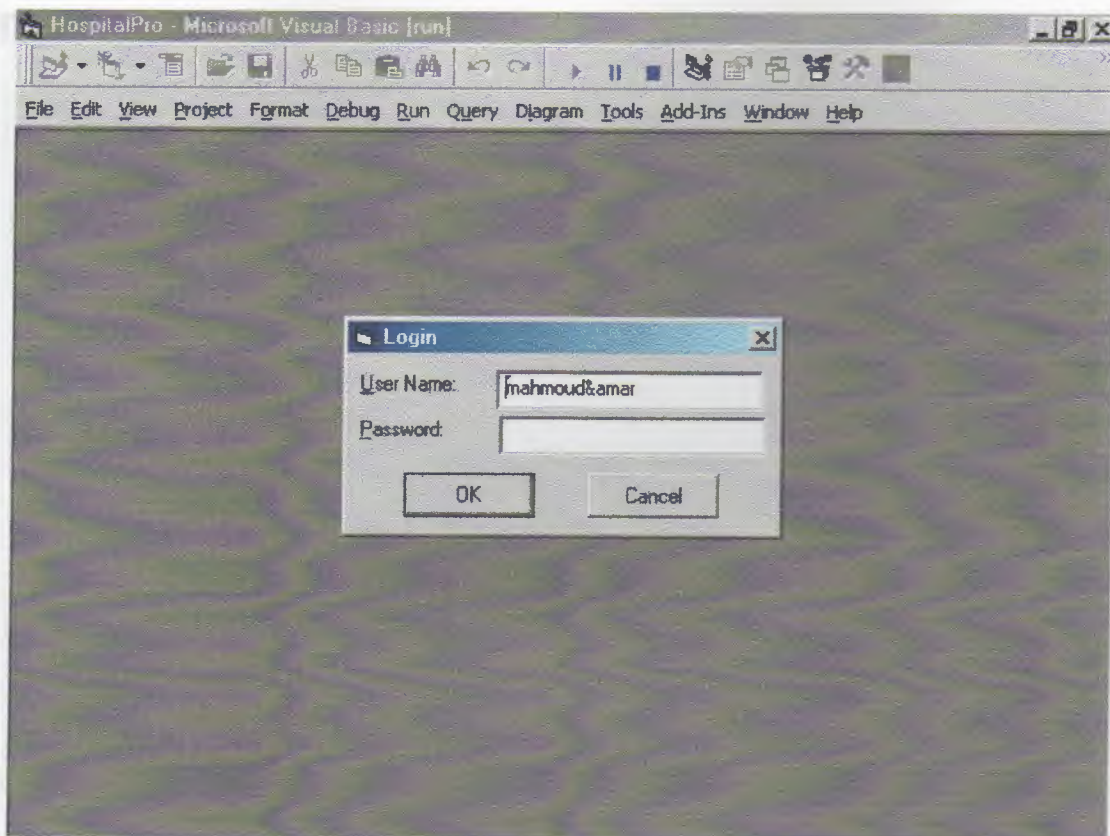
```
Private Sub Form_Load()  
Me.Height = 5000  
Me.Width = 7000
```

```
End Sub
```

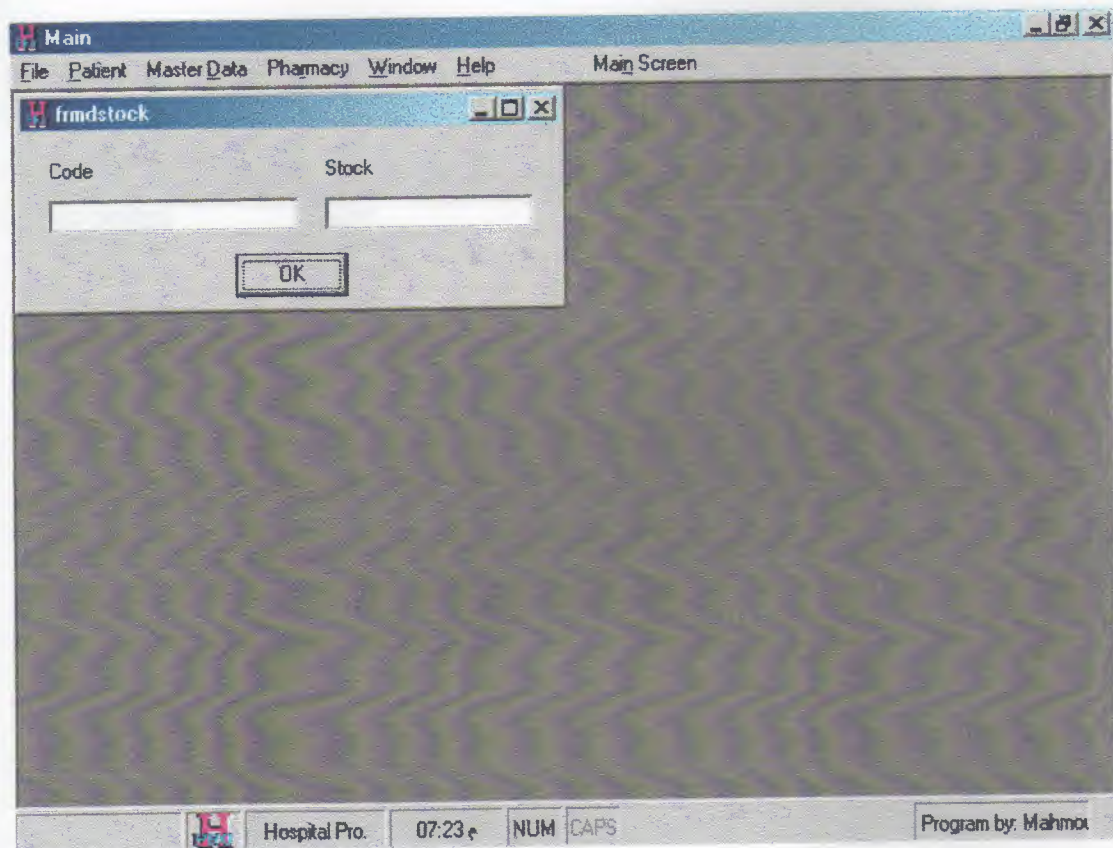
SCREEN OUTPUT



SCREEN_OUTPUT







Windows application interface for "Main Screen".

Menu Bar: File, Patient, Master Data, Pharmacy, Window, Help

Window Title: fmeddat

Section: Medicine data

Code	Description	Unit price
2518971	PANADOL	3
20015484	XX-DD-RR-YY	50
5684114	UU-EE-SS-FF	10
5118546	DD-SS-XX	20
55566611	RR-TT-EE-LL	15

Navigation Buttons: [Previous], [First], [Next], [Last]

Action Buttons: Add, Update, Close

Status Bar:

- Hospital Pro.
- 07:23
- NUM CAPS
- Program by: Mahmou

Main

File Patient Master Data Pharmacy Window Help Main Screen

frmediss

Issue Medicine

Transaction number

Patient ID

Medicine code

Issued Qty

Unit price

Cash/Credit

40

Add Update

Print Inv. Exit

Hospital Pro. 07:24 e NUM CAPS Program by: Mahmou

Main File Patient Master Data Pharmacy Window Help Main Screen

frimedrec

Receive Medicine

Date 01/01/2002

Code 5118546

Quantity 20

◀ ◁ ▷ ▶

Add Update Exit

Hospital Pro. 07:24 e NUM CAPS Program by: Mahmou

Windows application interface for Patient Master Data management.

Main (Menu: File, Patient, Master Data, Pharmacy, Window, Help) | Main Screen

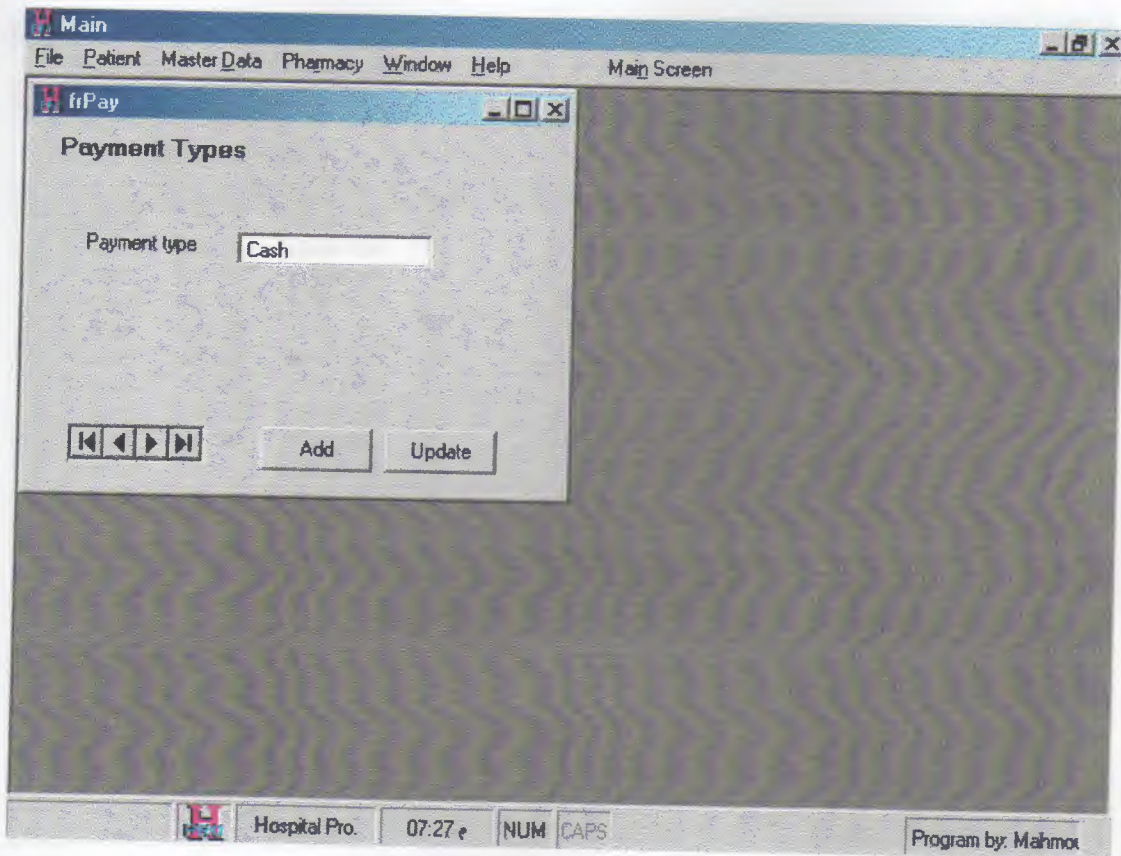
frpatmd (Title: Patient Master Data)


P.ID	100002	Add
P.first name	omar	Update
P. last name	hassan	Delete
Telephone	3582233	Exit
Payment	Credit	
Company	sadaf	
Birth date	01/05/1965	

Last ID: 100022


Navigation: [Previous] [Next] [First] [Last]

Footer: Hospital Pro. | 07:27 e | NUM | CAPS | Program by: Mahmor





Main
Main Screen


File Patient Master Data Pharmacy Window Help


frPvisit

Patient Visit Records

ID	Doctor ID	Date	Dept	Treatment/Test code	Number in queue	Visit Type
▶ 100001	DR-199	19/06/2002	LB	BLD-01	0	n
100001	DR-199	19/06/2002	LB	BLD-02	0	n
100001	DR-199	19/06/2002	EM	XRY-03	0	n
100001	DR-199	20/06/2002	CL	DEN-01	6	N
100001	DR-132	20/06/2002	CL	ENT-01	0	n
100001	DR-112	20/06/2002	OP	SAG-01	0	n
100001	DR-199	22/06/2002	LB	BLD-01	0	N
100001	DR-132	22/06/2002	CL	DEN-01	0	N
100001	DR-154	22/06/2002	CL	INT-01	0	n
100001	DR-132	22/06/2002	CL	ENT-01	0	n
100001	DR-132	22/06/2002	LB	BLD-02	0	N
100001	DR-199	23/06/2002	EM	XRY-01	0	N
100001	DR-112	23/06/2002	CL	XRY-03	0	n


XX Visit(s)
Add
Close


 Hospital Pro. 07:28 e NUM CAPS Program by: Mahmou

Main

File Patient Master Data Pharmacy Window Help Main Screen

frPvsreg

Patient Visit Registration

P. ID: 100002

Dr. ID: DR-154 Samir Saad

Visit code: 100002731429.5EV

Date: 19/06/2002

Dept: EM EMERGENCY

Visit type: n

Description: SRG-01 SURGERY

Cost: 100

No. in queue: 0

Navigation: [Previous] [Next] [First] [Last]

Buttons: Add Update Exit Invoice

Hospital Pro. 07:29 NUM CAPS Program by: Mahmo

Main

File Patient Master Data Pharmacy Window Help Main Screen

frstaff

Staff Master Data

ID	DR-112	Salary	0
First name	Ahmed	Other benefit	0
Last name	Omar		
Telephone			
Job Desc.			

◀ ◁ ▷ ▶

Add Update

Hospital Pro. 07:29 NUM CAPS Program by: Mahmo

Main

File Patient Master Data Pharmacy Window Help Main Screen

trtreat

Treatments

Description: INTERNIST

Code: INT-01

Dept. / Clinic code: CL

Cost: 50

Navigation: << < > >>

Buttons: Add Update

Hospital Pro. 07:30 e NUM CAPS Program by: Mahmo

Main - [fr_startup] File Patient Master Data Pharmacy Window Help Main Screen

26/06/2002

Search Patient

By Telephone

By First name

Patient record by ID

Patients Master File

Patient visit registration

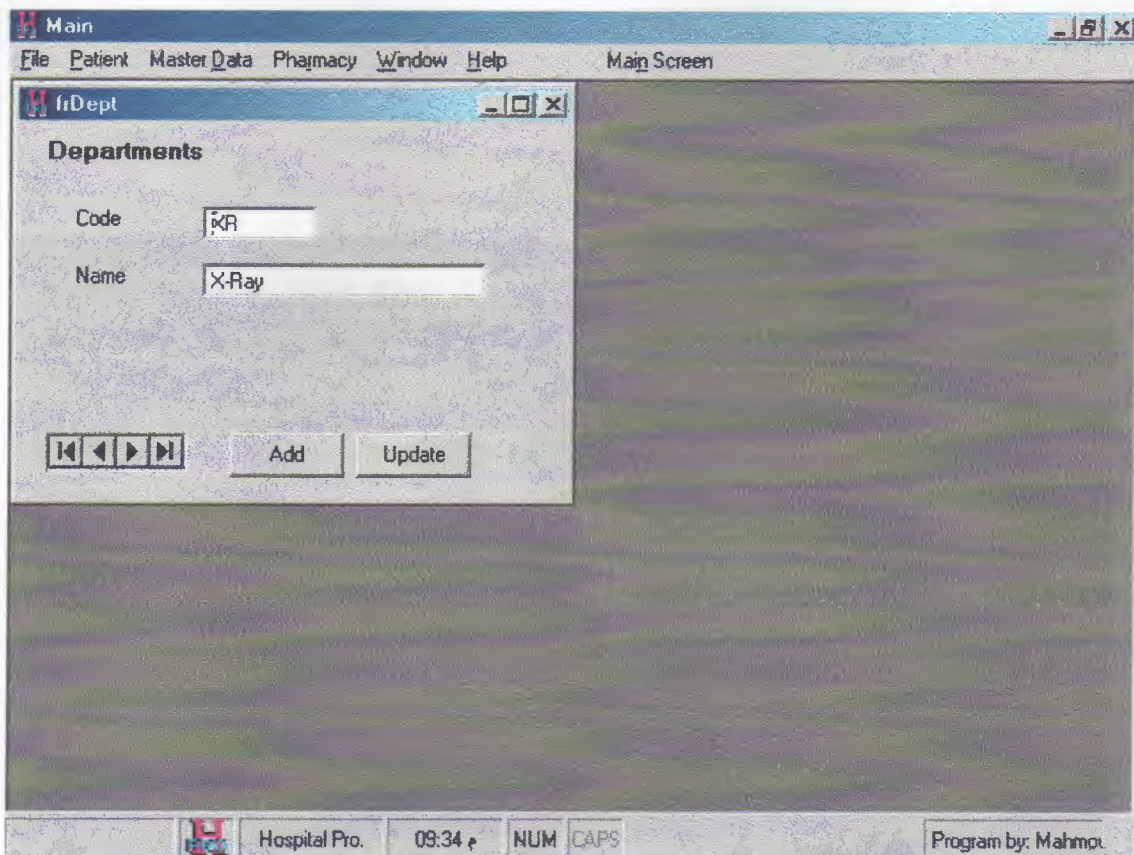
Enter patient ID

Visit records Add new visit

Date	Dr. ID	Dr. F.name	Dr. L.name
22/06/20	DR-112	Ahmed	Omar
22/06/20	DR-115	Radi	Ali
22/06/20	DR-132	Hosam	Mostaf
22/06/20	DR-154	Samir	Saad
22/06/20	DR-199	Hanafy	Mabrou
23/06/20	DR-112	Ahmed	Omar
23/06/20	DR-115	Radi	Ali
23/06/20	DR-132	Hosam	Mostaf
23/06/20	DR-154	Samir	Saad
23/06/20	DR-199	Hanafy	Mabrou
24/06/20	DR-112	Ahmed	Omar

Issue medicine from pharmacy

Hospital Pro. 09:29 NUM CAPS Program by: Mahmoud



Main

File Patient Master Data Pharmacy Window Help Main Screen

finPtel

Find Patient by Tel. number

Tel	ID	F. Name	L. Name	Paymet	Company
1234567	100005	bom	bom	Credit	tec
1234567	100016	test16	test1616	Credit	ft
223569	100022	ashraf	ibrahim	Credit	near east
2345233	100006	tona	lkjnp	Credit	tectac
2349023	100004	omar	ahmed	Cash	
3344551	100010	ghf	dsh	Cash	
35346	100018	dgerg	wgwq	Credit	gsg
3582233	100002	omar	hassan	Credit	sadaf
3586040	100003	ahmed	bilal	Cash	
3586040	100019	ZAFAR	SIDDIQUI	Credit	FIBER
3586040	100020	SAMEER	RAWAL	Credit	TATA
3586040	100021	omran	mohammed	Credit	FIBERTEC

Hospital Pro. 07:19 NUM CAPS Program by: Mahmou

Windows application window titled "Main" with menu items: File, Patient, Master Data, Pharmacy, Window, Help. The main screen displays a "Patient Visit Registration" dialog box.

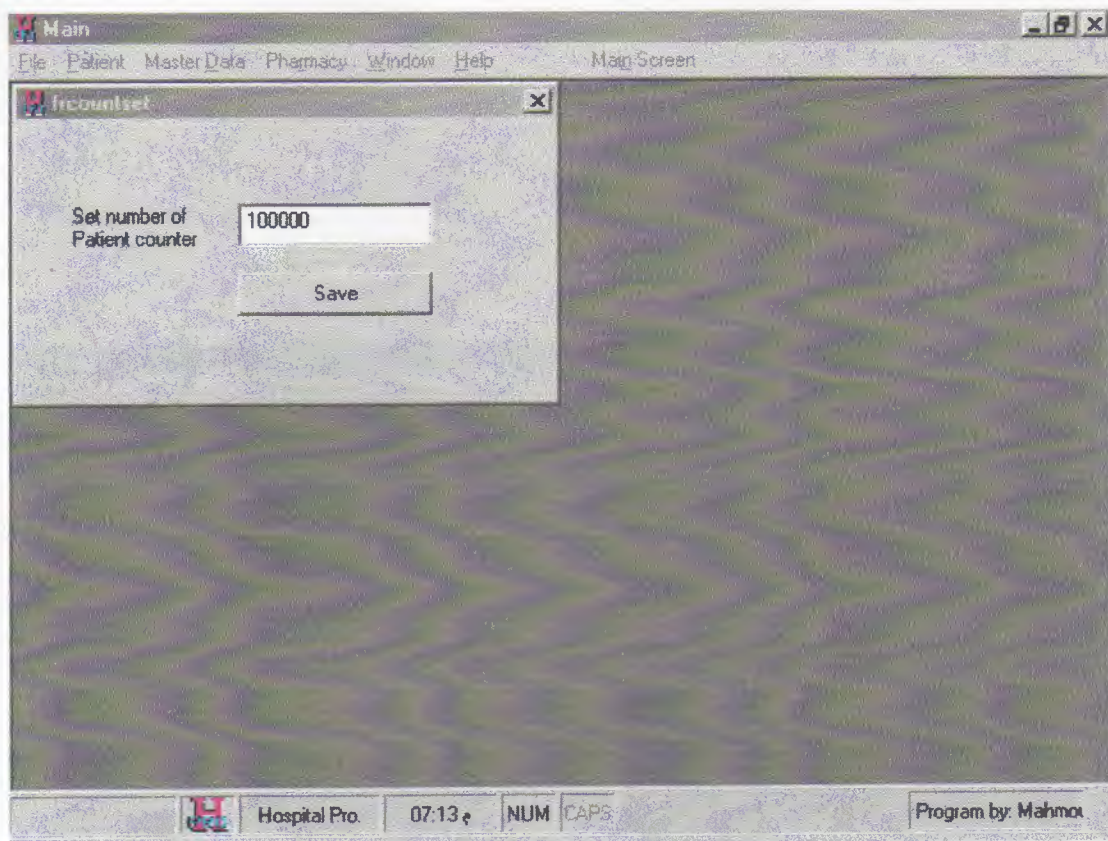
Patient Visit Registration

P. ID	100006	Visit code	100002731429.5E17
Dr. ID	DR-154 Samir Saad		
Date	19/06/2002		
Dept.	EM EMERGENCY	Visit type	n
Description	SRG-01 SURGERY	Cost	100
No. in queue	0		

Navigation buttons: << < > >>

Action buttons: Add, Update, Exit, Invoice

Footer: Hospital Pro. 07:22 NUM CAPS Program by: Mahmo



Main File Patient Master Data Pharmacy Window Help Main Screen


frDtm Doctors Time Table

Date

Dr. ID

Time

Remarks

 Hospital Pro. 07:17 e NUM CAPS Program by: Mahmou

REFERENCES

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Microsoft Access 2002
- 2- Internet: A-www.yahoo.com
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C-www.Infoseek.com
D-www.msn.com

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