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**FACULTY OF ECONOMIC AND
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**DEPARTMENT OF COMPUTER
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CIS 400

(Graduation Project)

**“DENTIST CLINIC”
PATIENT MANAGEMENT SYSTEM**

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II. ACKNOWLEDGEMENTS

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I then say thanks to my parents who helped me and supported me till this very time, thank you very much mom and grandfather. Also I would like to thanks my educationalist who help me while in my whole education process.

Of course I will not forget my friends here who always motivated me when ever I got disappointed in any point while making this program.

III. ABSTRACT

This software is a specific program only suitable for a Dentist Clinic management system that keeps records of all patients arriving at the clinic. The whole software system is divided into 7 main processes in order for better user interface and friendly environment.

I tried my best to solve the problem easily understandable as I divided the system into main seven processes, such as patients registration, registering their appointments, treatment records for each patient, reports and monthly expense accounts and standard data entry processes.. Each of the section I designed is easy to understand and learn fast. There are no menus used but command buttons were preferred instead so all is in front of the user for quick access.

The software will help a dentist clinic manager to keep records of all patients arriving, manage their appointment schedules, record their treatments and relative schedules, as well as I have also added a stock control system for a glance where products used for treatments are replenished. Proper accounting system works behind that as well.

I added user messages as well for the correspondence with the program so user may understand a bit the inside logic of the program how his process is handled.

I hope this software will help Dentist Clinic management department where manager keeps close eye on his business accounts, his patients' history and other activities using the IRS I designed for the purpose.

As there are hundreds of ways to solve any problem so if you find any suggestions about my program, I would like to hear them.

IV. INTRODUCTION

Medical Clinic Patient Management System

This project is about a dentist clinic management system. I tried to make the program a general purpose clinic program that can be used for any kind of medical clinic or small hospitals.

My project covers the patients management department of any small hospital or medical clinic where we cover the following processes essential for a medical clinic or small hospital.

- Patients registration
- Appointments with doctors
- Treatment
- Stock
- Accounts
- Patients complaints records
- Patients treatments and medical history
- Patients and appointments reports along with some other useful reports

To cover all the above process I have designed a system that easily divide the main program into the mentioned processes each with full detail utilities of saving, editing or retrieving data from the database.

Solution:

For such a medical clinic a computer based system the program must have the utilities for

1. Data entry of all the patients to be treated in the clinic
2. Data entry of known treatments for price retrieving
3. Edit/Update all the data stored in the database
4. Search for any patient or any particular patient history
5. Making new appointments utility and editing or updating the appointments
6. Updating patients treatments history time to time
7. Proper IRS (Information Reporting System) based on the data collected by the above mentioned processes
8. Computerized accounting system showing details of payments made by each patient

Keeping in mind the above nine (8) facilities I divided the whole system into seven (7) main processes.

1. Patient Registration
2. Appointments
3. Treatment
4. Stock Process
5. Accounts Reports
6. Report
7. Standard data Registration

In the preceding lines each of the above main process is explained in detail.

1. Patient Registration:

When any patient is visiting the clinic for the first time we enter his personal profile through this section of our program in to our database, so that the data about him can be used in the future also. In this section of the program a user is able to add new patient, edit any registered patient's profile from the database or simply retrieve one or more record with the same query parameters incase to search for any particular record. There are no sub processes in this process but all the utilities are available on the same form.

2. Appointments:

This process is very important process for our system. Incase there are too many patients visiting our clinic, doctors wont be able to give them any time from before unless there is a proper appointment system. I have designed an appointment system that is almost similar to reserving a room of a hotel, but the only difference here is that v must check the hour of the day as well along with the appointment date. This process is also divided into two sub processes

- New Appointment
- Cancel Appointment

In the New Appointment sub process we enter the information of the patients, the doctor he needs to see, purpose of visit and the timings.

In cancel Appointment we allow the user to cancel his/her appointments.

3. Treatment:

After the patient visits the doctors he is treated or checked up. In this section we enter the information of what cure is he undergoing through, what medicines he was given, this data can be later on used for the analysis of the patients if he shows up with any other medical complaint.

4. Stock Process:

In this process I have tried to cover all the process of a small stock. We buy different items that we use in clinic, to keep track of records of items, their quantity in stock, and the accounting of the stock this process will help the manager.

I hope this system will help such a clinic to offer best service to their patients thus helping the people by providing accurate appointments and visiting timings, keeping eye on all of its activities neatly. If there is any good suggestion I would love to hear it from any good wisher.

- Purchased Process
- Utilize Process
- Stock View

5. Accounts:

The actual purpose of my project is not the accounts of the clinic but it is a patients management system where we don't go into the detail of the clinic accounts, but as the patients pay fee so v keep eye on how much fee is paid when and by whom. In the end of the month the total fee is retrieved and the general expense is deducted from it.

I hope this system will help such a clinic to offer best service to their patients thus helping the people by providing accurate appointments and visiting timings, keeping eye on all of its activities neatly. If there is any good suggestion I would love to hear it from any good wisher.

6. Reports:

This is very important process for management department of the clinic. Through this process of the program they are able to keep eye on all the activities of the clinic. Some examples of reports are

- Patients visited in a particular time
- Appointments Report for a particular date or time
- Specific patients history report
- Profit Report
- Treatment Fee
- Treatment Fee Date

7. Standard Data Registration:

This is our first main process in which we enter for the first time the information of our doctors, their personal data and the professional efficiency as well as the prices of different known therapies in the clinic. This main process is divided into two sub processes

- Treatment registration
- Medicine registration

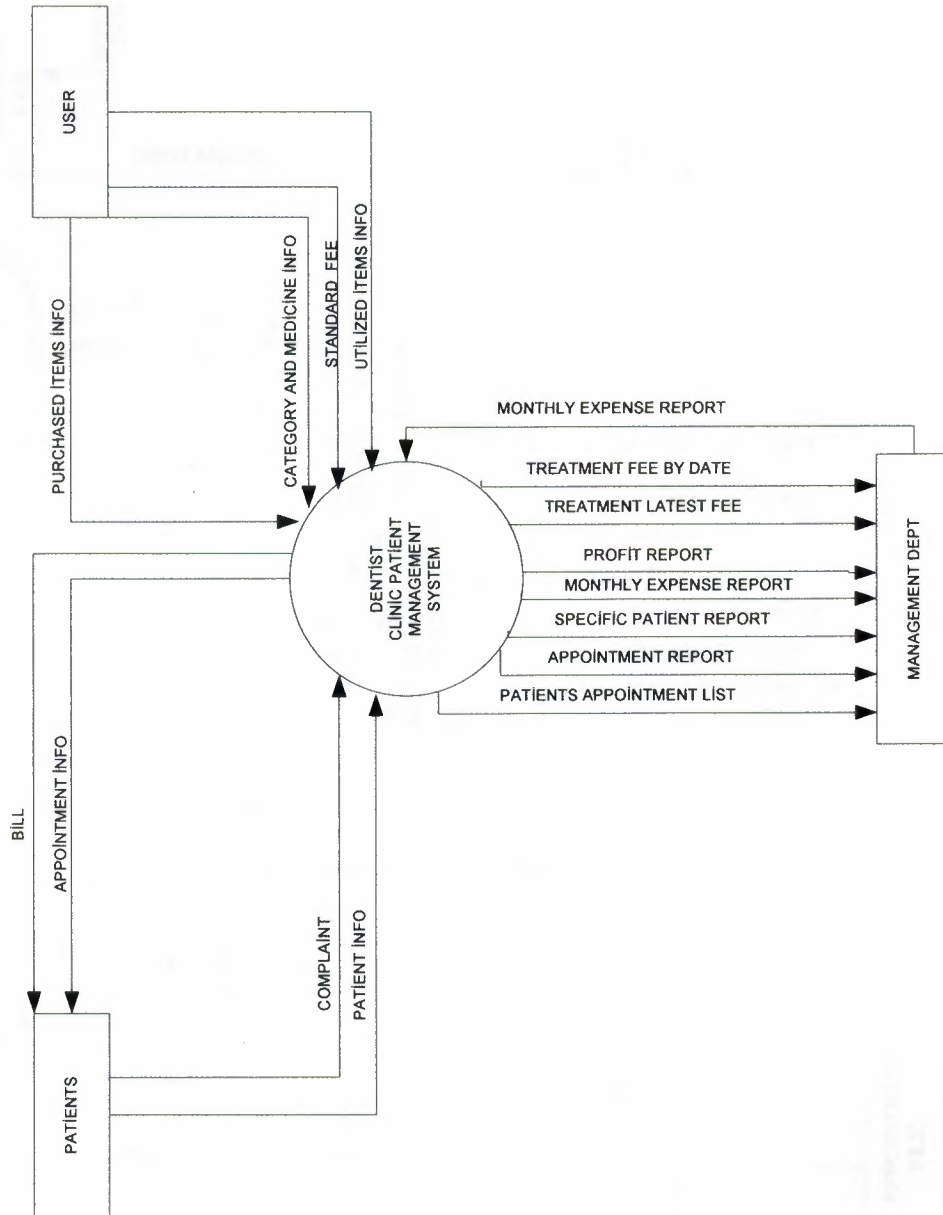
Each of the above sub process as its name mentions is for the registration of its related entity. Each sub process allows user to add, edit/update or search any entity in the database. Both the above sub processes are alike; the only difference is the entity between them. In therapy sub process we enter the fee to be taken from a patient how much he/she will be charged.

V. SYSTEM DESIGN

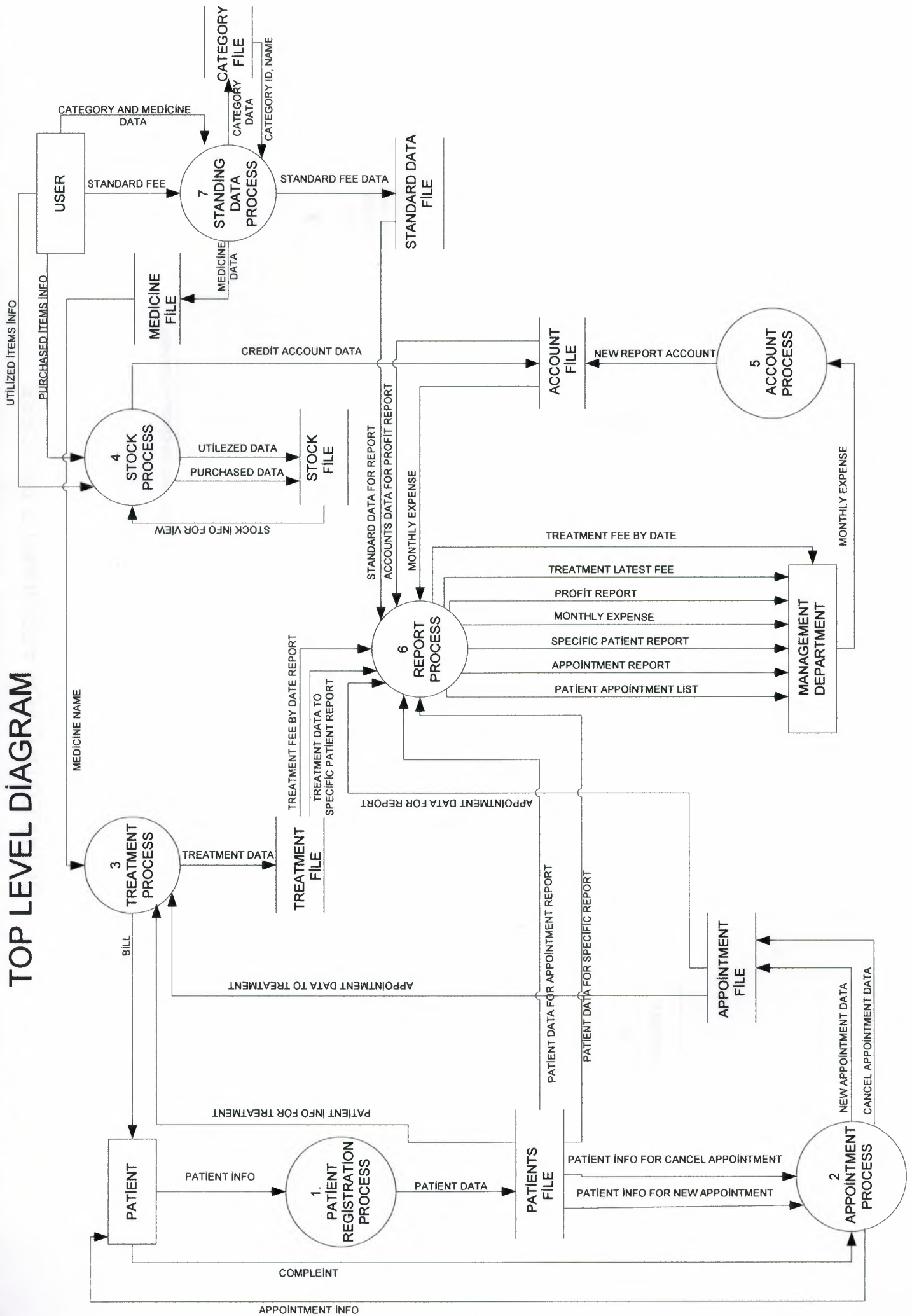
DATA FLOW DIAGRAM

DATA FLOW DIAGRAM

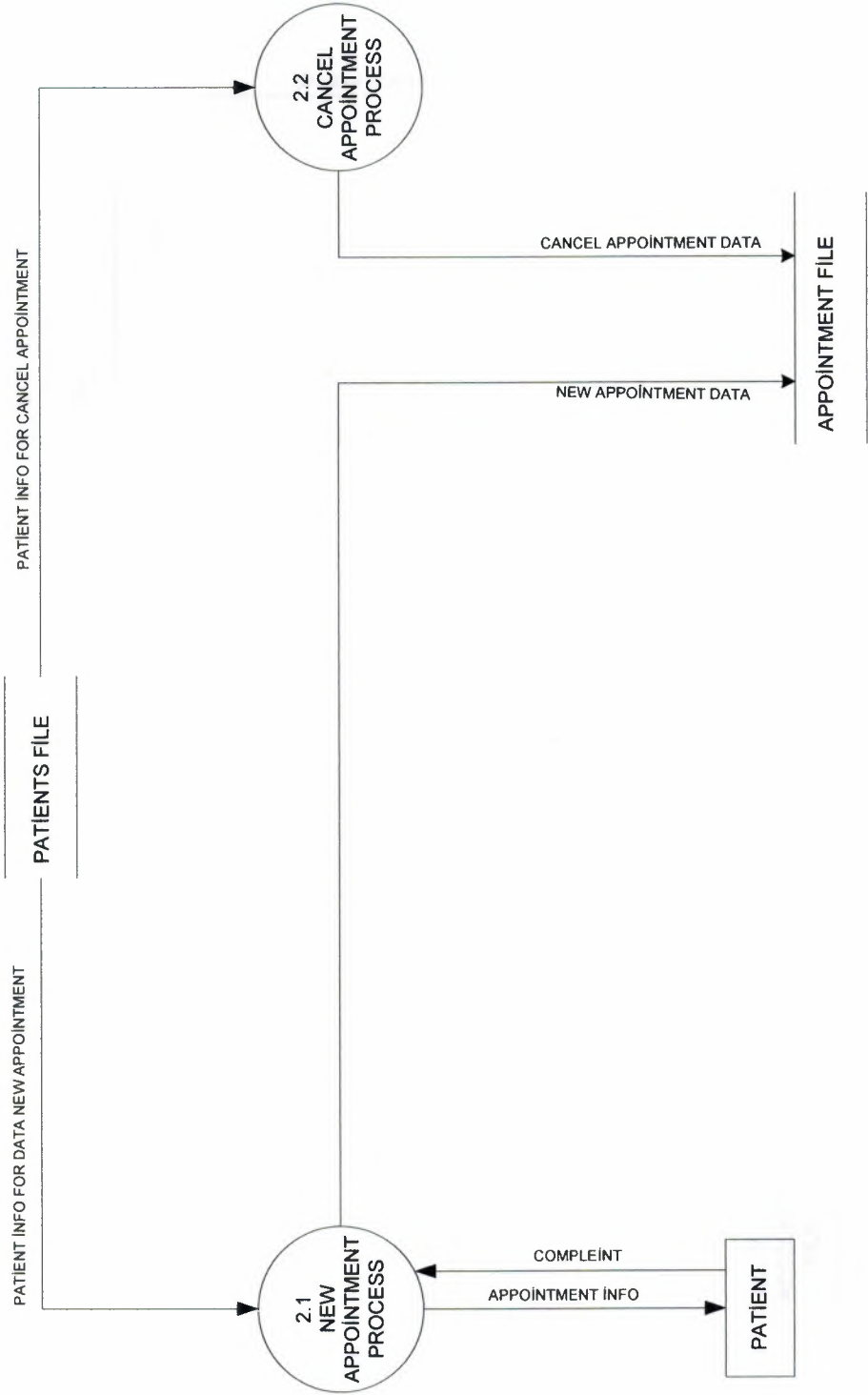
CONTEXT DFD



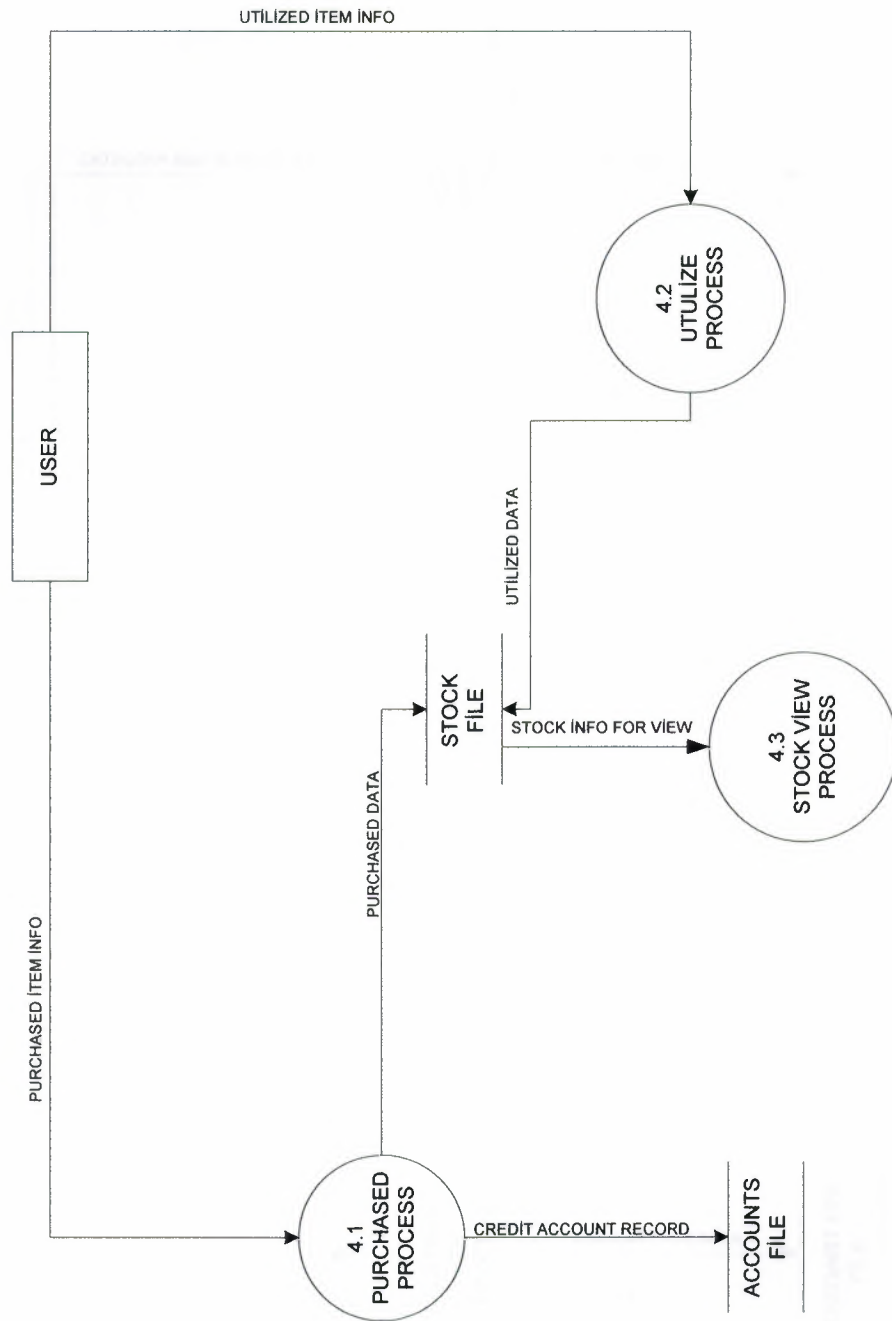
TOP LEVEL DIAGRAM



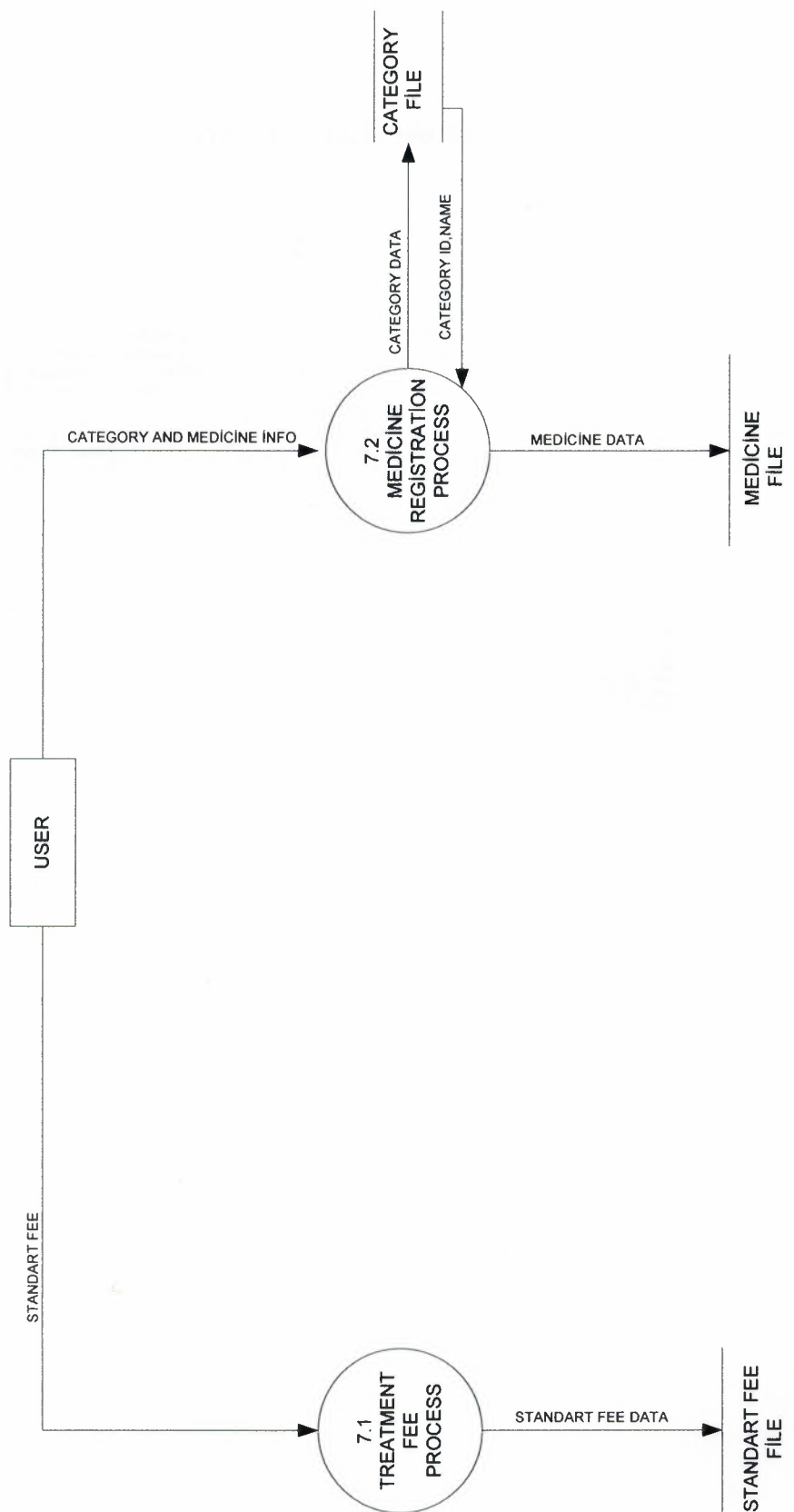
DETAILED DFD FOR APPOINTMENT PROCESS



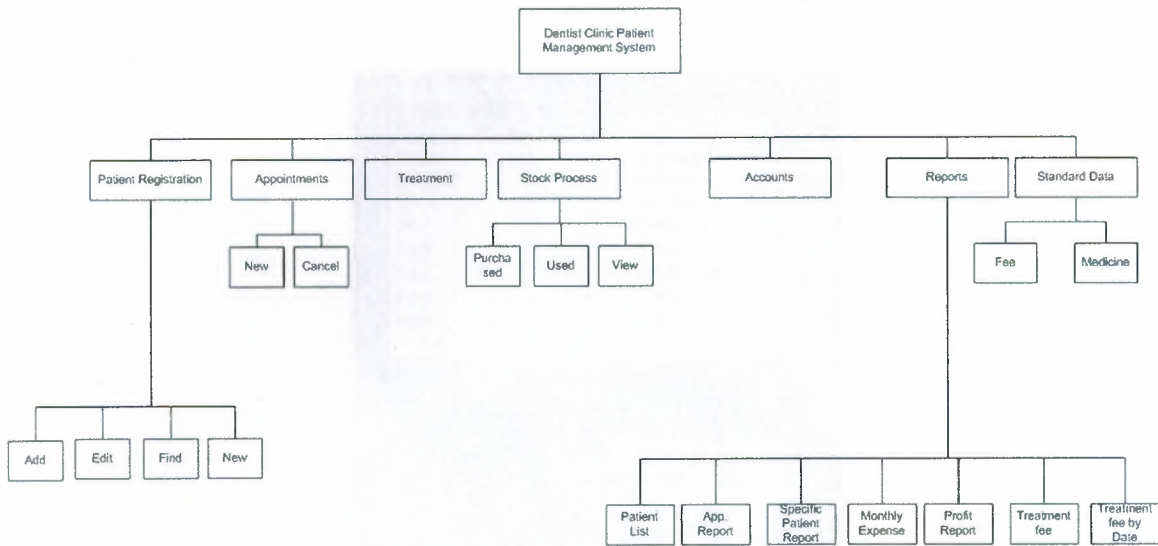
DETAILED DFD OF STOCK PROCESS



DETAILED DATA FOR STANDARD DATA



SYSTEM BLOCK DIAGRAM



Database Design

Accounts Table

Field Name	Data Type
rec_no	AutoNumber
tedaviID	Number
Invoice_No	Number
debit	Currency
credit	Currency
date	Date/Time
electricity	Currency
water	Currency
phone	Currency

Field Properties

General Lookup

Field Size: Long Integer
 New Values: Increment
 Format:
 Caption:
 Indexed: Yes (No Duplicate:)

Appointments Table

Field Name	Data Type
AppID	Number
patientID	Number
date	Date/Time
time	Date/Time
reason	Text
canceled	Yes/No

Field Properties

General Lookup

Format: Yes/No
 Caption:
 Default Value:
 Validation Rule:
 Validation Text:
 Required: No
 Indexed: No

Categories Table

categories : Table

Field Name	Data Type
catID	Number
name	Text

Field Properties

General Lookup

Field Size: Long Integer

Format:

Decimal Places: Auto

Input Mask:

Caption:

Default Value: 0

Validation Rule:

Validation Text:

Required: No

Indexed: Yes (No Duplicate)

Medicine Table

medicines : Table

Field Name	Data Type
medID	Number
catID	Number
name	Text
manufacturer	Text
about	Memo

Field Properties

General Lookup

Field Size: Long Integer

Format:

Decimal Places: Auto

Input Mask:

Caption:

Default Value: 0

Validation Rule:

Validation Text:

Required: No

Indexed: Yes (No Duplicate)

Main Stock Table

MainStock : Table

Field Name	Data Type
Invoice_No	Number
medID	Number
vendor	Text
quantity_purchased	Number
cost_per_item	Currency
Total_Cost	Number
quantity_utilized	Number
date	Date/Time

Field Properties

General Lookup

Field Size: Long Integer

Format:

Decimal Places: Auto

Input Mask:

Caption:

Default Value: 0

Validation Rule:

Validation Text:

Required: No

Indexed: Yes (Duplicates O

Invoice Table

Invoice : Table

Field Name	Data Type
Invoice_No	AutoNumber
Vcode	Text
date	Date/Time
type	Text
Ttl	Currency

Field Properties

General Lookup

Field Size: Long Integer

New Values: Increment

Format:

Caption:

Indexed: Yes (No Duplicat

Patients Table

patients : Table

Field Name	Data Type
patientID	Number
name	Text
surname	Text
gender	Text
D_O_Birth	Date/Time
address	Text
phone	Text
NIC	Text
attention	Text
pre_Operation	Text
alergic	Text
pregnent	Yes/No
HP	Yes/No
Sugar	Yes/No
Smoker	Yes/No

Field Properties

General | Lookup

Field Size: Long Integer

Format:

Decimal Places: Auto

Input Mask:

Caption:

Default Value: 0

Validation Rule:

Validation Text:

Required: No

Indexed: Yes (No Duplicate)

Standard Data Fee

standard_data : Table

Field Name	Data Type
id	Number
name	Text
fee	Currency

Field Properties

General | Lookup

Field Size: Long Integer

Format:

Decimal Places: Auto

Input Mask:

Caption:

Default Value: 0


Validation Rule:

Validation Text:

Required: No

Indexed: Yes (No Duplicate)

Treatment Table

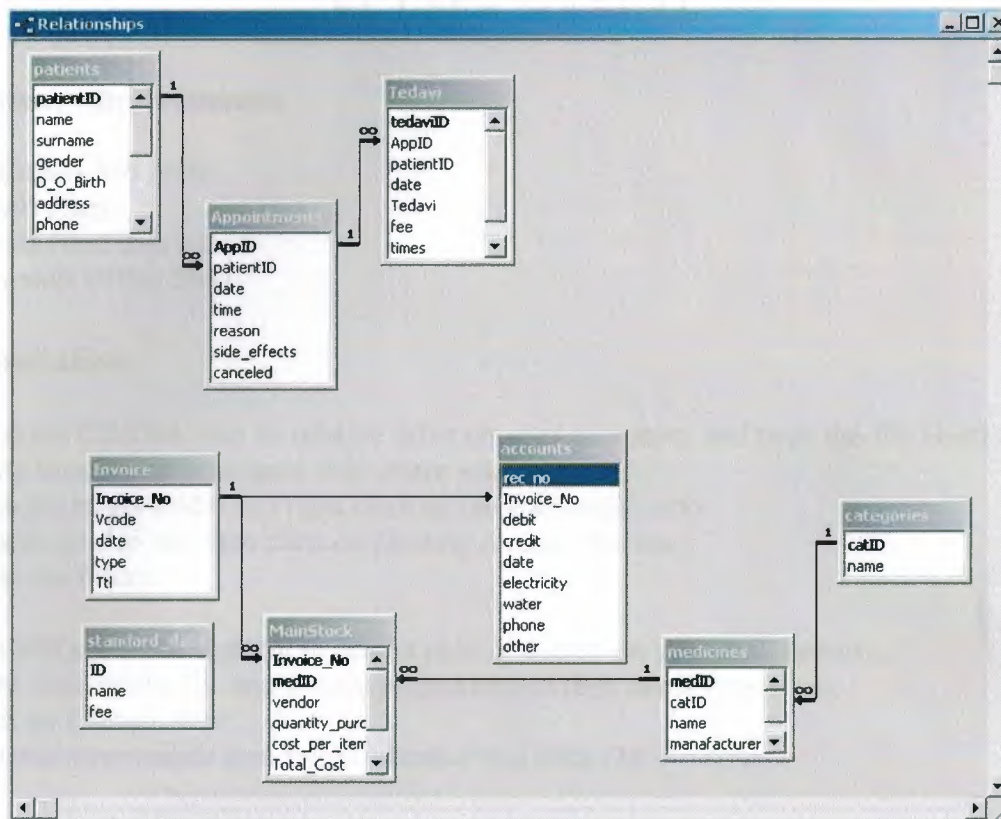
	Field Name	Data Type
	tedaviID	AutoNumber
	AppID	Number
	patientID	Number
	date	Date/Time
	Tedavi	Text
	fee	Currency
	times	Number
	total_fee	Currency

Field Properties

General | Lookup

Field Size	Long Integer
New Values	Increment
Format	
Caption	
Indexed	Yes (No Duplicates)

Relationship



VI. USER MANUAL

System requirements

Pentium II 350 MHz.
64 MB Ram
50 MB Hard disk space
Microsoft Office 2003

Installation

Insert the CD/Disk into its relative drive on your computer, and copy the file Dentist.mdb to any location on your hard disk where you want
Open the target folder and right click on the file dentist.mdb
Choose *send to* and then click on *Desktop (create shortcut)*
Close the folder.

You will see that a shortcut to dentist.mdb is located on your desktop now.
Right click on the file and choose properties and then select *Properties*.
Click on *Change Icon*
Select an appropriate icon for the shortcut and click *OK*

Running the program

Simply click on the shortcut icon that you created in installation part explained in previous topic.
Program will prompt you to enter a valid password
Type 1 in the password field and press ENTER
A MAIN MENU will appear on the screen

Each of the steps how to proceed is explained in detail one by one below on the preceding pages.

Main Menu

Main Menu is designed in order to have a user friendly environment. It is divided into two main parts, left hand side displays different options to be chosen while incase there is any sub menu related to the main option is displayed on the right side of the Main menu.



Main menu has 8 basic options as shown in the list below

1. Patient Registration
2. Appointments
3. Treatment
4. Stock Process
5. Accounts
6. Reports
7. Standard Data
8. Exit

To accomplish the better results these main options may contain sum additional options called sub menu. Each of the above process will be explained now one be one.

Patient Registration

This is our first process in the database program. When ever a new customer comes to the clinic, we will register him to our database so that he/she may go under other process.

An automatic *Patient ID* is displayed in the patient ID field and program is prompting to enter the patient bio data. This form is divided into two parts. One contains patient's personal bio data while the other contains any additional information related to patient's health. Once you enter this information into its relative fields simply click *Save* button, if the record patient ID does not exist in the database, patient data will be stored in the database otherwise program will prompt you to change the patient ID as it already exists in the database.

Patient Registration

Patient Card

Patient Biodata

Patient ID: 6

Name: _____ Surname: _____

Date of Birth: _____ N.I.C No.: _____

Address: _____

Phone: _____

Additional Information

☐ Hepatit B? Gender: _____

☐ Pregnent Other: _____

☐ Sugar Problem? Alergies: _____

☐ Smoker?

Back **New** **Save** **Edit** **Find** **App**

To search for any particular patient click on *Find* and a form will appear asking you to enter either patient ID, Name or Surname, providing any of these click *GO*, a list of records will be generated if the search criteria is found in the database, double click on the desired patient's ID to display its information on the main form.

Make any changes if you want and click *Edit*.

To give an appointment to the same patient simply click on *App.* button and you will be directed to add new appointment form, which will be discussed in the next topic.

To enter any new patient click *New*, click *Back* to close the form and other functions to be active

Appointments



This process contains two sub processes

1. Make new appointment
2. Cancel Appointment

Make New Appointment

Enter a valid patient ID to whom you desire to give an appointment. His/her name and surname will appear on the screen if the record is found in the database and on the right hand side of the screen all the visit history of the patient will appear otherwise program will give you an error message prompting you to enter another valid number. There is an option incase the doctor wants to see the current patient details. Click on *view patient detail* and all information related to the current patient will be displayed on a separate form. Click *Back* to move back to appointment form.

Appointments

Today 9/11/2005

Patient Information

Patient ID: 1

Name: Pinar Surname: yasar

View Patient Card

Appointment Information

App. ID: 8

Date: 8/22/2005

Time:

Reason: General Checkup

Fee: 250

Add Appointment

Aug 2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Choose a date from the calendar to view its appointments or to select a date

Back

Patient Appointments History

Date	App. ID	Reason
8/22/2005	1	General Checkup
8/23/2005	3	dolgu
9/13/2005	7	General Checkup

Appointments of the Day

Time	Name	Surname	Phone	Reason
9:00	Pinar	yasar	5465	General Checkup
10:00	Fiden	Yamanoglu	78542145	dolgu

Appointment ID is generated automatically, simply enter the date on which you want to give appointment. Click on *Show Calendar* to view a calendar for easy use of date entering process. Double click on any date on the calendar to view appointments of that day. Choose appropriate time for the current patient's appointment, and click *Add Appointment*.

To move back to the submenu click *Back*

Cancel Appointment

Appointment Information

App. ID: 1
 Date: 8/22/2005
 Time: 9:00
 Reason: General Checkup
 Cancel Appointment

Patient Information

Patient ID: 1
 Name: Pinar Surname: yasar
 View Patient Card
 Show Calendar

Patient Appointments History

Date	App_ID	Reason
8/22/2005	1	General Checkup
8/23/2005	3	dolgu
9/13/2005	7	General Checkup

Appointments of the day

Time	Name	Surname	Phone	Reason
9:00	Pinar	yasar	5465	General Checkup
10:00	Fidan	Yamanoglu	78542145	dolgu

Back

Enter a valid appointment ID that you desire to cancel, if it is found in the database all information of patient, his/her visit history will be displayed on the screen in its appropriate places. Click *Cancel Appointment* to cancel it. There is a calendar option give here as well with the same functions as calendar in previous section explained.

Treatment

This section is to enter the data when a patient is validating his/her appointment. Doctor uses this part of the program. Enter appropriate appointment ID, click on Treatment and choose what exactly is treated, enter a valid number of quantities, select any discount category incase there is any and click *Save to accounts*.

Choose category of medicines and from the list below it choose what medicine to be given and what doze in the text field below the list. To move back to previous menu, simply click *Back* button.

tedavi
Today 9/11/2005
Treatment Process

Appointment Information
App. ID: 1
Date: 8/22/2005
Time: 9:00
Reason: General Checkup
Treatment: [Dropdown]
Quantity: [Text Field]
Fee: 0

Patient Information
Patient ID: 1
Name: Pinar Surname: yasar
View Patient Card [Button]

Accounts
Sub Total: 0
Net Total: [Text Field]
Discount:
☐ Family 25 %
☐ Special 20 %
☐ 10 %
☐ No Discount
 Save Accounts [Button]

Treatment List

Treatment	Fee	Times	Total Fee
General Checkup	250.00	1	250.00

Prescription
 Calpol Once every morning
 Categories: Syrup
 Medicines: Calpol
 Tarara
 Doze: Once every morn
 Choose a category and then medicine from the list and enter the doze of the medicine to make a prescription
 Print [Button]

Back [Button]

Stock Process

STOCK OPTIONS

Purchased Process [Button]

Utilize Process [Button]

Stock View [Button]

This section of the program is used in order to maintain stock activities. There are three sub options in the program

1. Purchase process
2. Utilize process
3. Stock view

Purchase Process

Replenishment

Purchased Process

Receipt No. Date

Vendor

Product Code Description Cost Quantity Total

Product Code	Description	Quantity	Cost	Total Cost

Click *New* to begin with a new receipt, enter vendor name from where you want to buy the medicines, choose from the list medicine that you bought, enter its cost of purchase and quantity and press enter. After all the receipt is enter similarly click on *Save to Accounts*. After saving accounts and stock item click *Back* to move to the sub menu.

Utilize Process

Utilize Process

Utilize Process

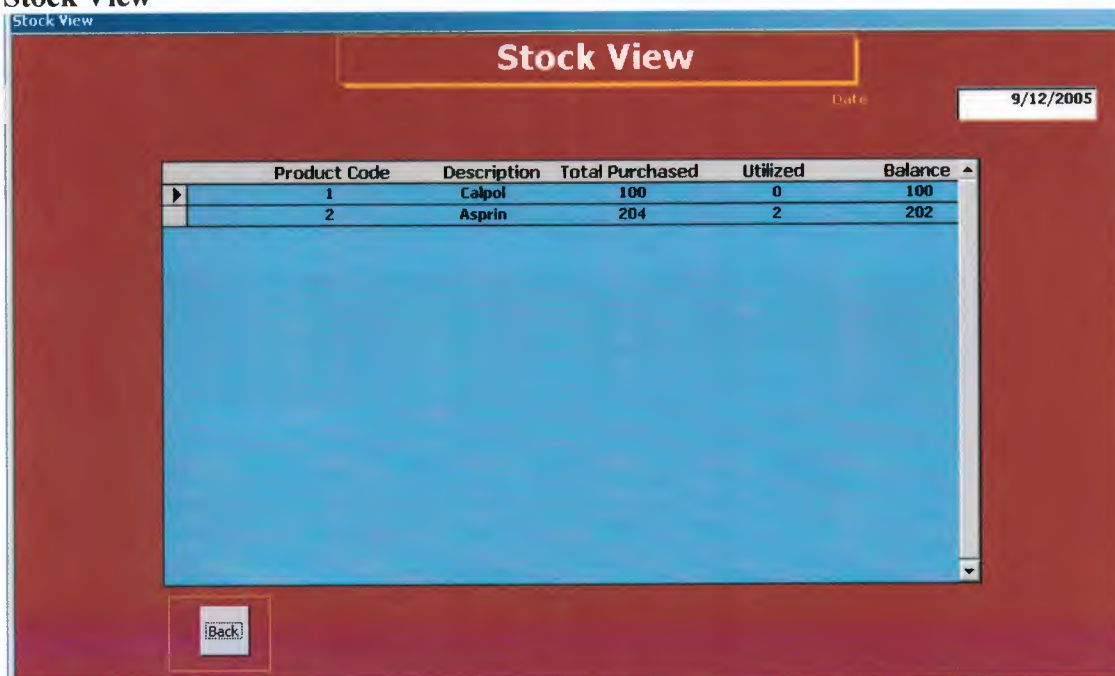
Receipt No. Date

Product Code Description In Stock Quantity

Product Code	Description	Quantity

This process is used when the doctor ask stock items from the stock to the clinic. Click *New* to begin a new utilize process and then enter the stock (medicine) id in its field or choose from the popup list, its quantity in stock is displayed on the screen, enter the quantity to be utilized and press enter. To move back to the previous menu click *Back*.

Stock View



Product Code	Description	Total Purchased	Utilized	Balance
1	Calpol	100	0	100
2	Asprin	204	2	202

This process is to view the stock situation, how many did you buy, utilized and remaining items are shown as a list on the screen. Note: this is just a screen report; you can not print this information on a paper using any device like printer or anything else.

Accounts



Today 9/11/2005

Expense Registration to the database

Electricity

Water

Phone

Other

Total

Back Save

In this process you enter the data of your expense of the month or any time period. Enter all the expenses mentioned in the form and click *Save*. To move back to the main menu click *Back*.

Reports

As mentioned in the problem solution part this part is for managerial purpose.

Enter any two valid dates for appointments report and click on *Appointments report*

Enter any valid patient ID and click on its *Specific patient report*

To generate patients list click on *patients' list* button

To view and print standard data fee, click on *treatment fee*

Enter any two valid dates for appointments report and click on *profit report*.

The screenshot shows a window titled "Reports" with a red header bar. Below the header, there are two main sections. On the left, under the heading "Enter patient to generate specific report", there is a "Patient ID" input field and a "Patient Search" button. Below this, under the heading "Enter two dates to generate required report", there are "Date1" and "Date2" input fields. On the right, there is a "Report Menu" box containing six buttons: "Patients List", "Appointments Report", "Specific Patient", "Profit Report", "Treatment Fee", and "Treatment Fee Date". At the bottom left of the window is a "Back" button with a left-pointing arrow icon.

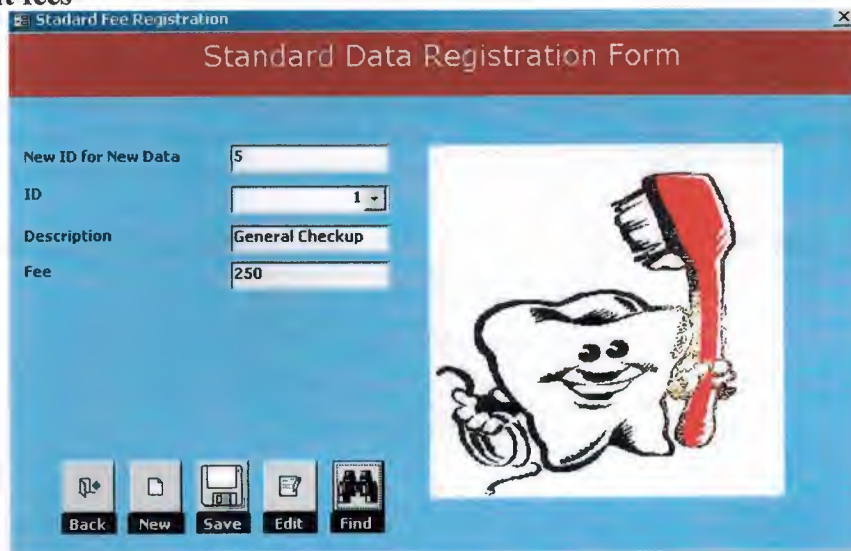
Standard Data

The screenshot shows a window titled "STANDARD DATA OPTIONS" with a red header bar. Below the header, there are two buttons: "Treatment Fee" and "Medicine Reg.". Each button has a right-pointing arrow icon to its left.

This process has two main processes as

1. Treatment fees
2. Medicine registration

Treatment fees

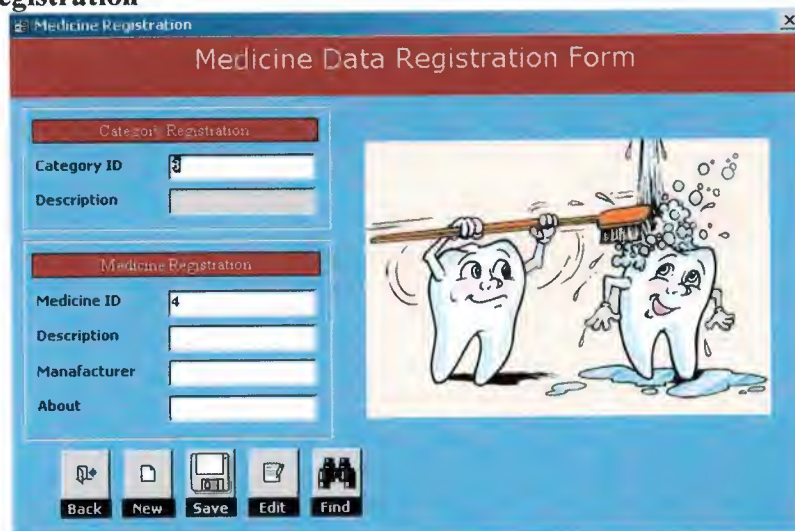


The image shows a software window titled "Standard Fee Registration" with a red header bar containing the text "Standard Data Registration Form". The window has a light blue background. On the left, there are four input fields: "New ID for New Data" with the value "5", "ID" with a dropdown menu showing "1", "Description" with the text "General Checkup", and "Fee" with the value "250". To the right of these fields is a cartoon illustration of a smiling tooth holding a red toothbrush. At the bottom of the window, there are five buttons: "Back", "New", "Save", "Edit", and "Find", each with a small icon above it.

Auto generated ID for treatment is displayed in its field, enter description of the treatment and fee for it and click *Save* to save information to the database. Enter any pre registered treatment ID and click *Find* to view its detail, change anything you want to desire and click *Edit* to update the changes.

Click *New* to enter any other new data to the database, again a new auto generated ID is displayed in its field.

Medicine Registration



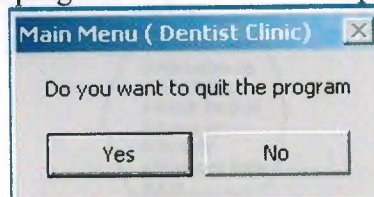
The image shows a software window titled "Medicine Registration" with a red header bar containing the text "Medicine Data Registration Form". The window has a light blue background. It is divided into two main sections. The top section, titled "Category Registration", has two input fields: "Category ID" with the value "3" and "Description". The bottom section, titled "Medicine Registration", has four input fields: "Medicine ID" with the value "4", "Description", "Manufacturer", and "About". To the right of these sections is a cartoon illustration of two smiling teeth. One tooth is holding a toothbrush and brushing the other tooth, which is covered in white foam. At the bottom of the window, there are five buttons: "Back", "New", "Save", "Edit", and "Find", each with a small icon above it.

In this process we register medicines that are displayed on Treatment form for doctor to write prescriptions. The form is divided into two parts; one is to register categories and the other for medicine registration.

To register category simply click *New* and type the same category ID that is displayed over it and its description form will be enabled to write anything in it. Write down its description and press *ENTER*, category will be added to the database. Medicine ID is generated automatically as well, enter its data and click *Save*.

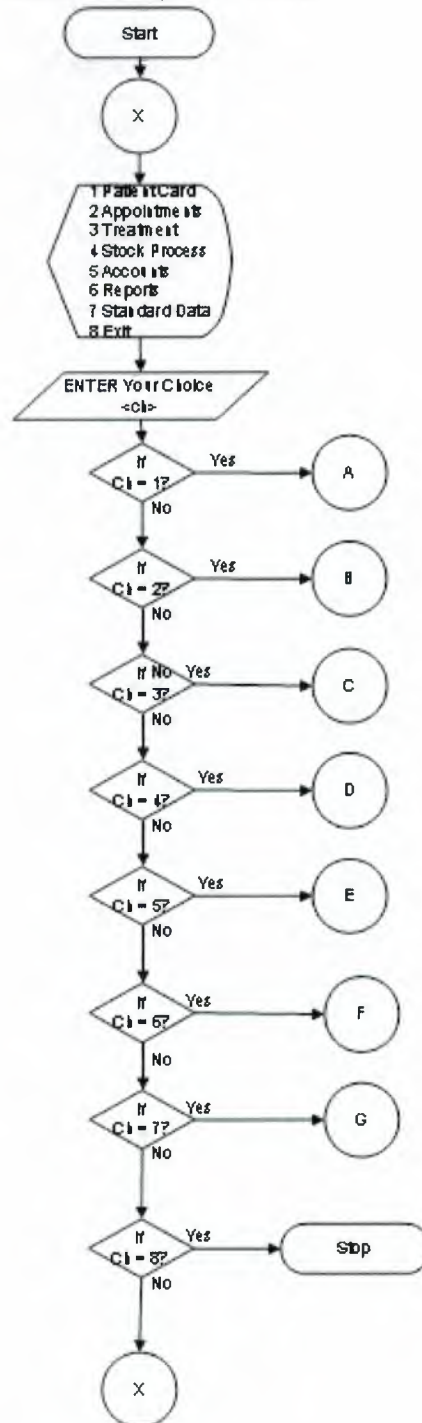
To view any medicine enter its ID and click *Find*. Make any correction and click *Edit* to update the changes. *Back* is to move back to previous sub menu.

Once you finish working with program click *Exit* to close program and move to windows.

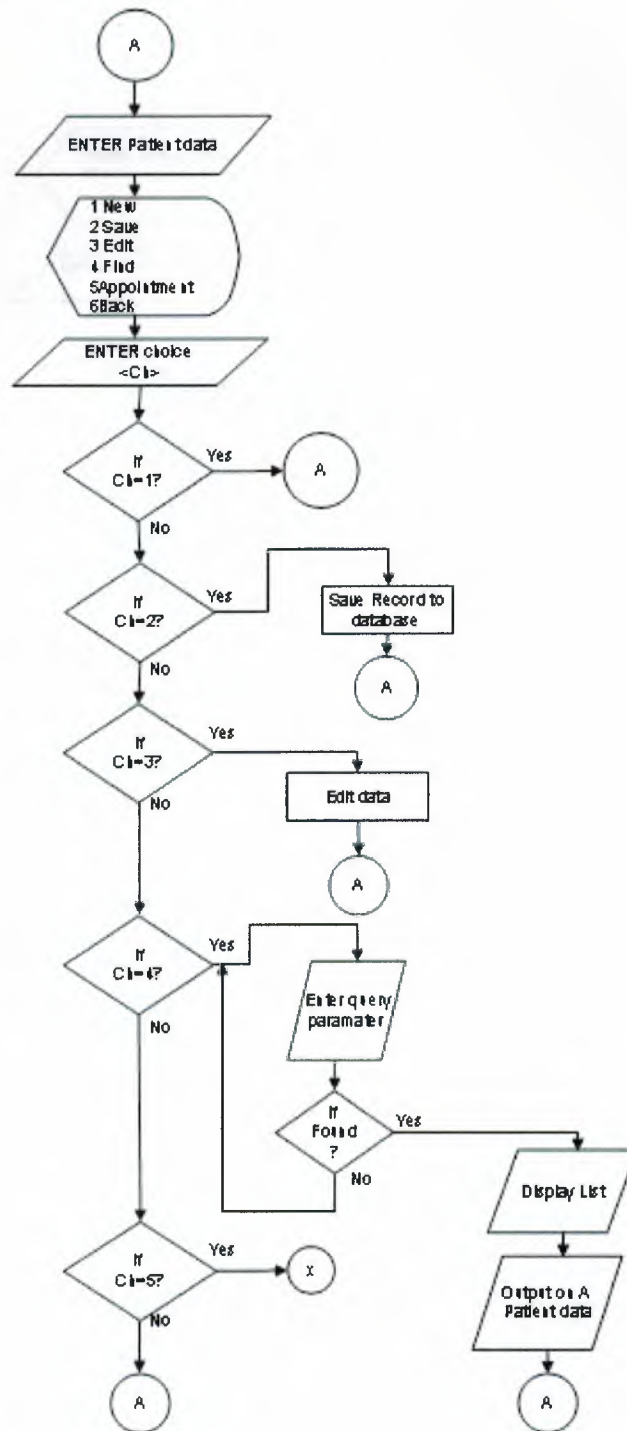


User Flowcharts

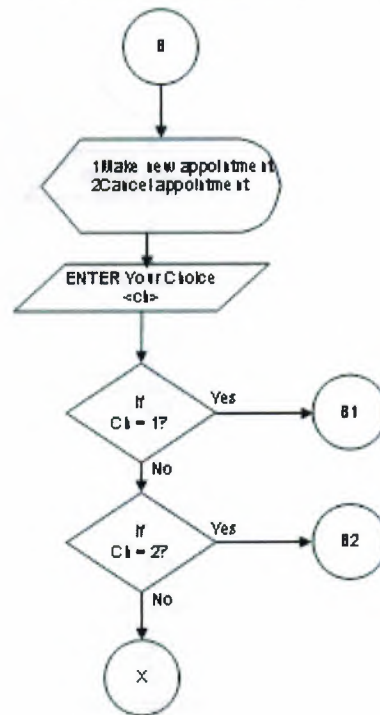
MAIN MENU (MAIN PAGE)



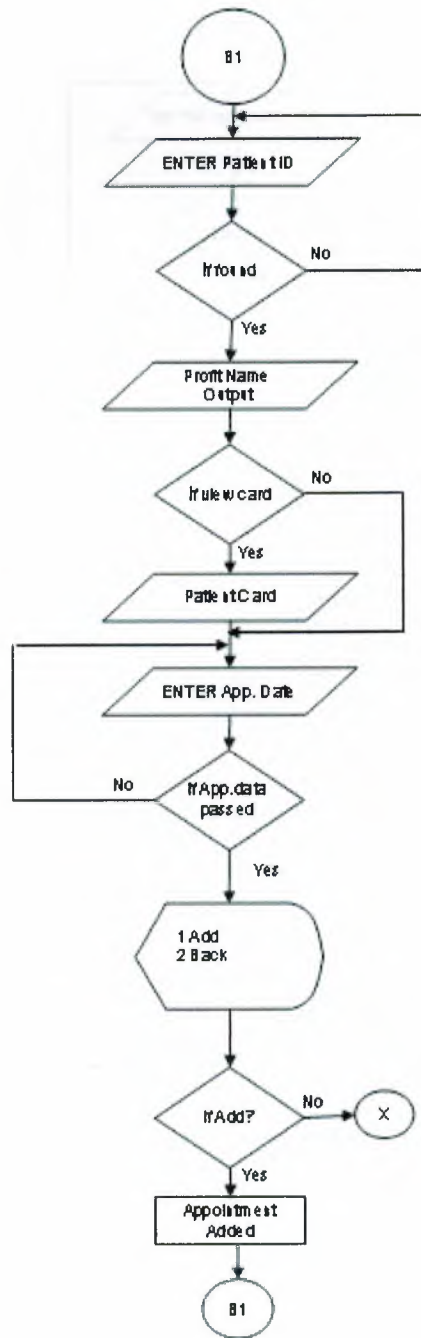
Patient Registration



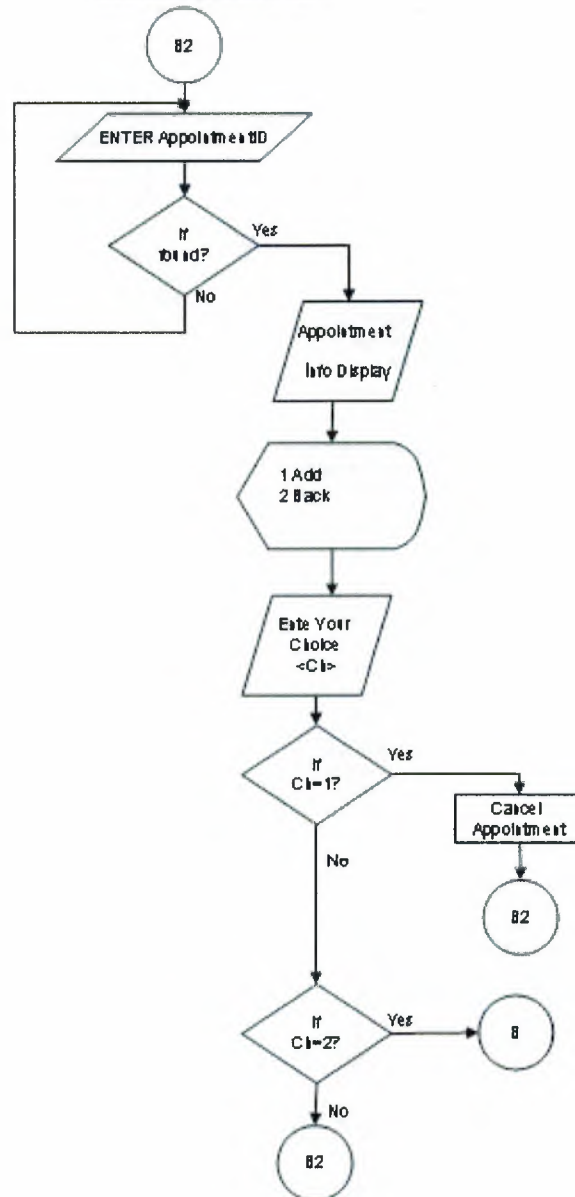
Appointment Sub Menu

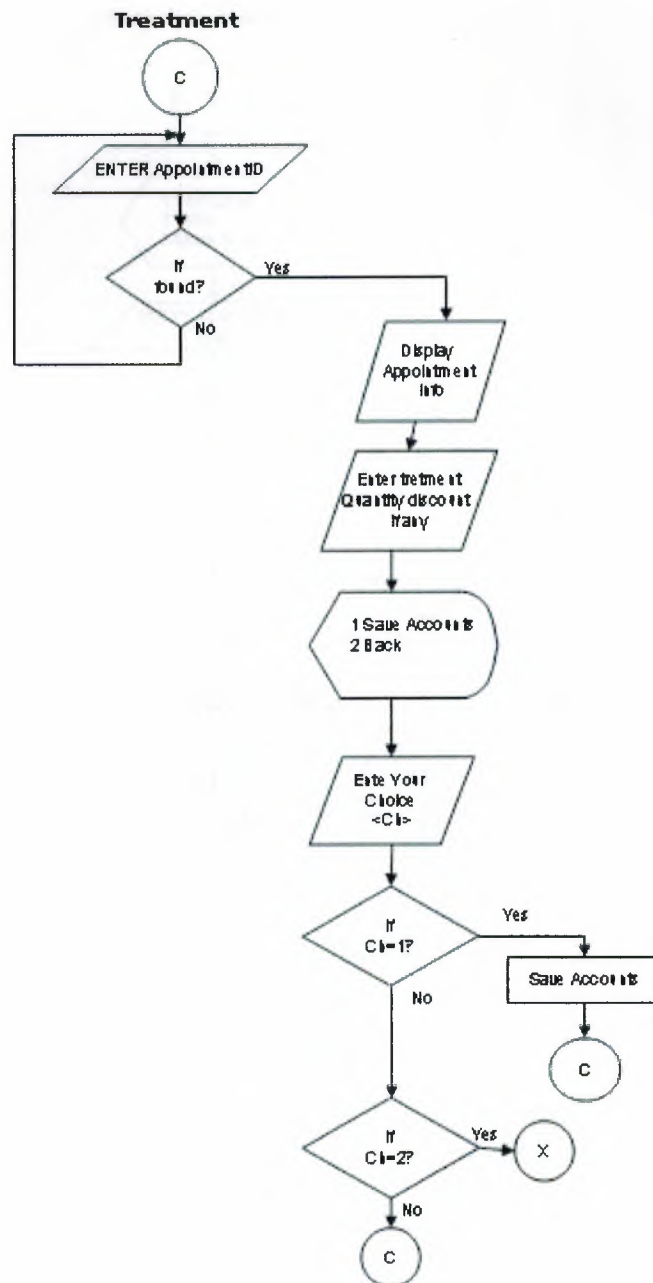


New Appointment

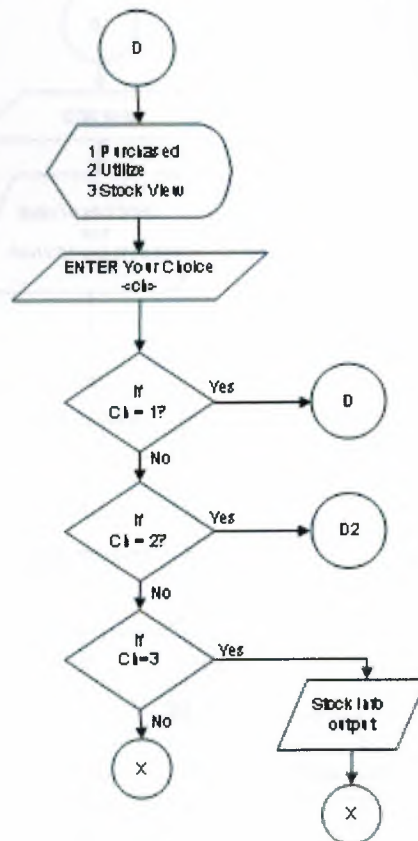


Cancel Appointment

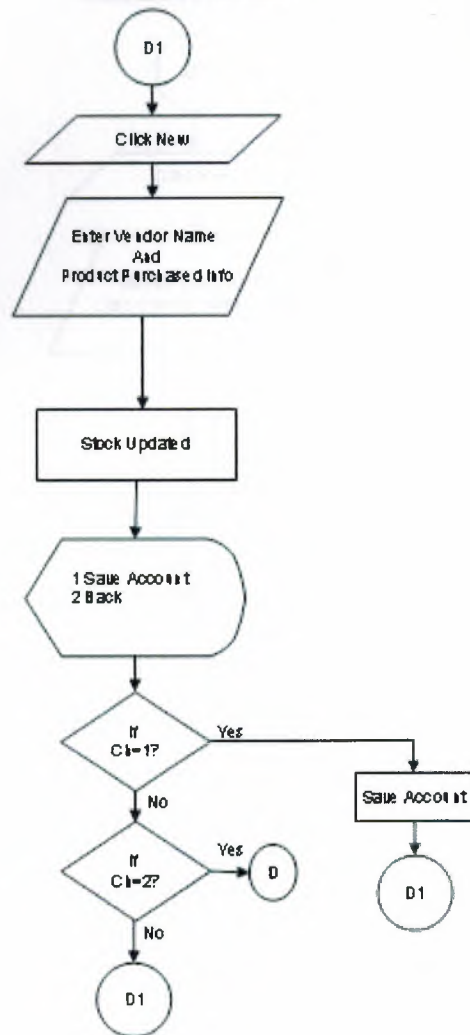




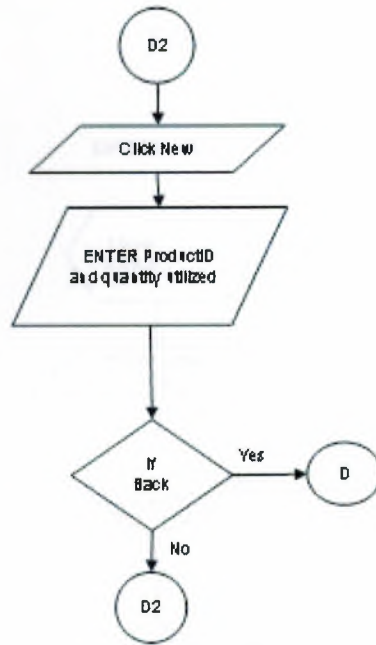
Stock Sub Menu



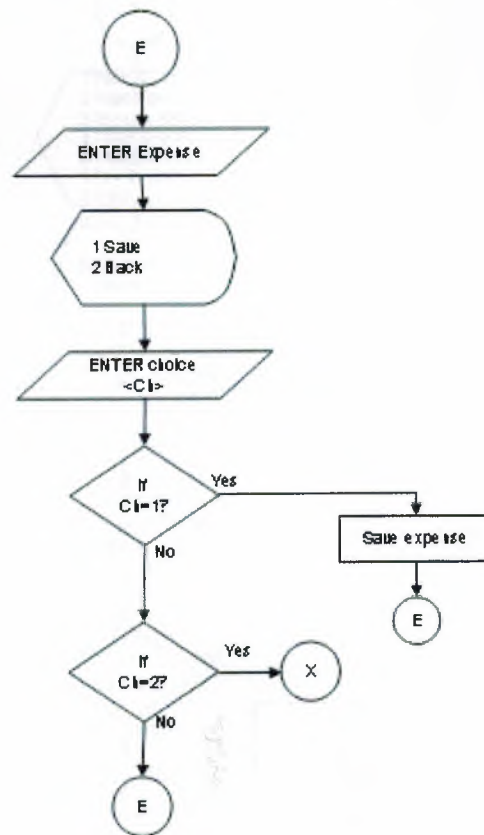
Purchased Process

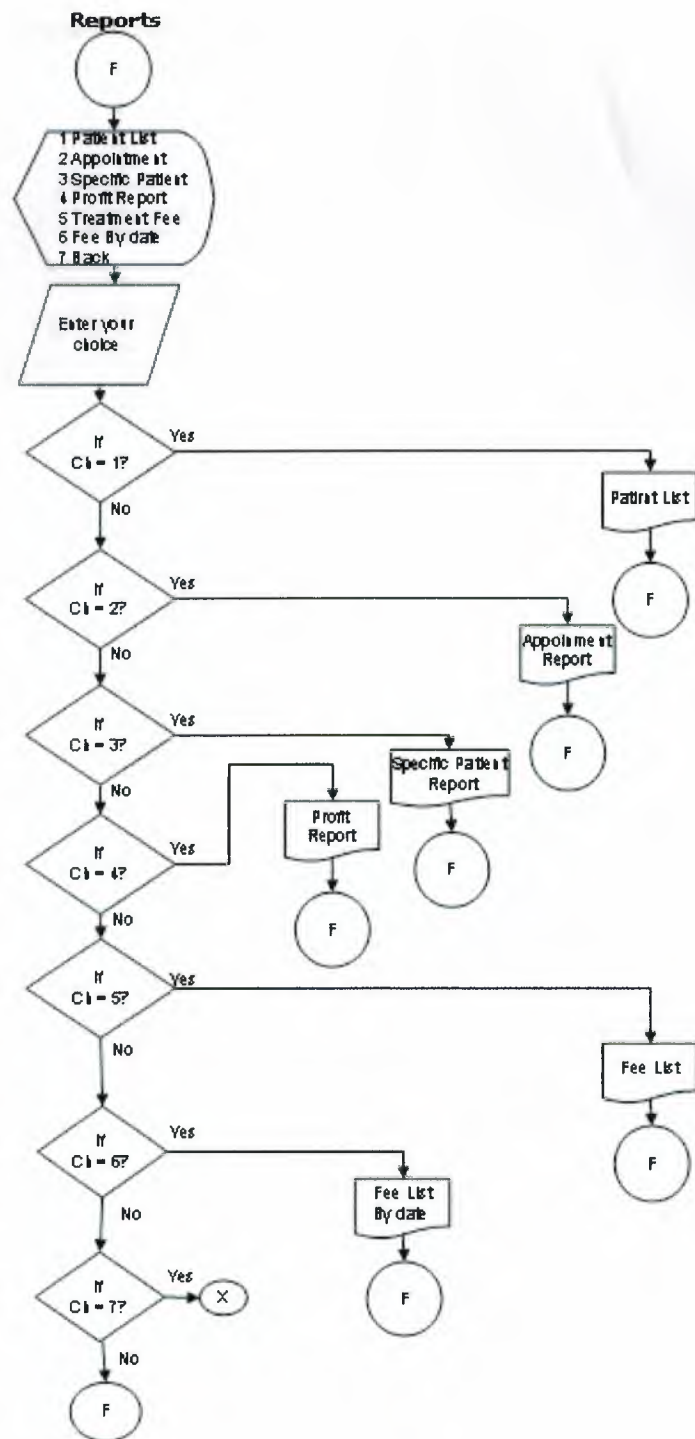


Utilize Process

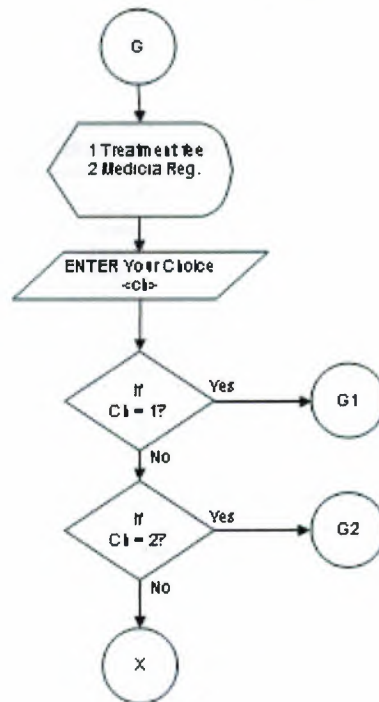


Account expense

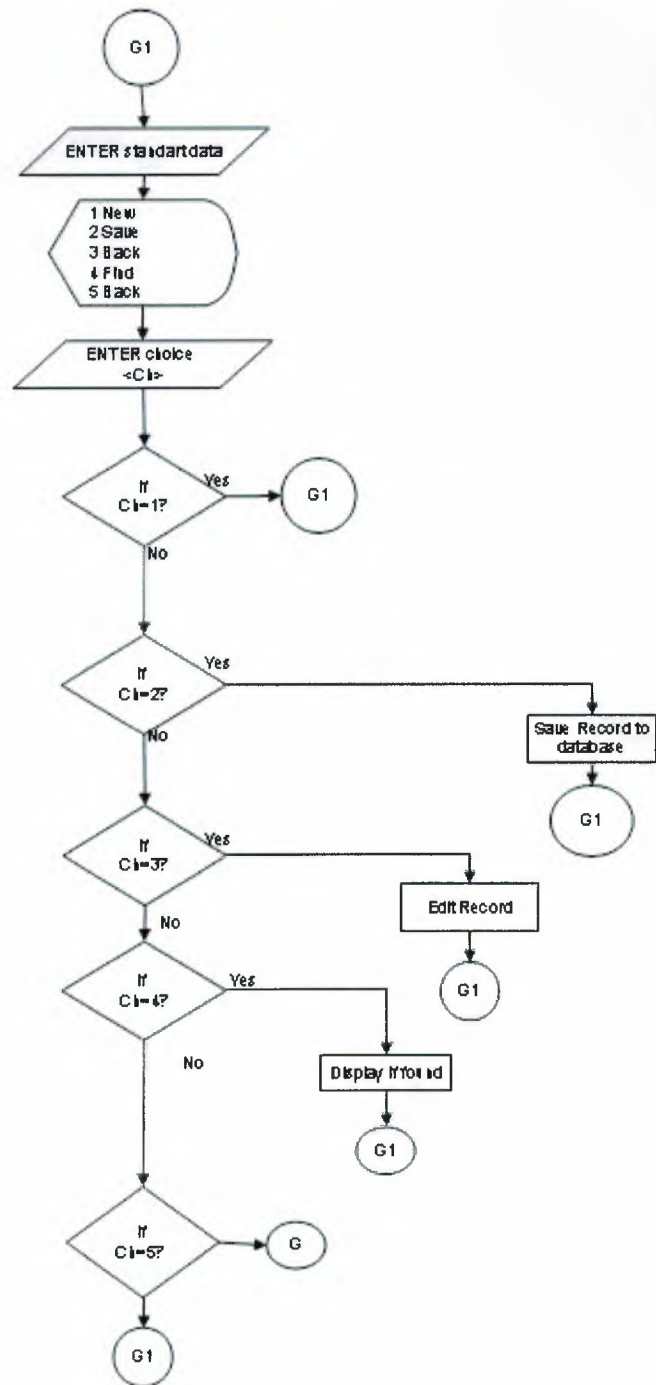




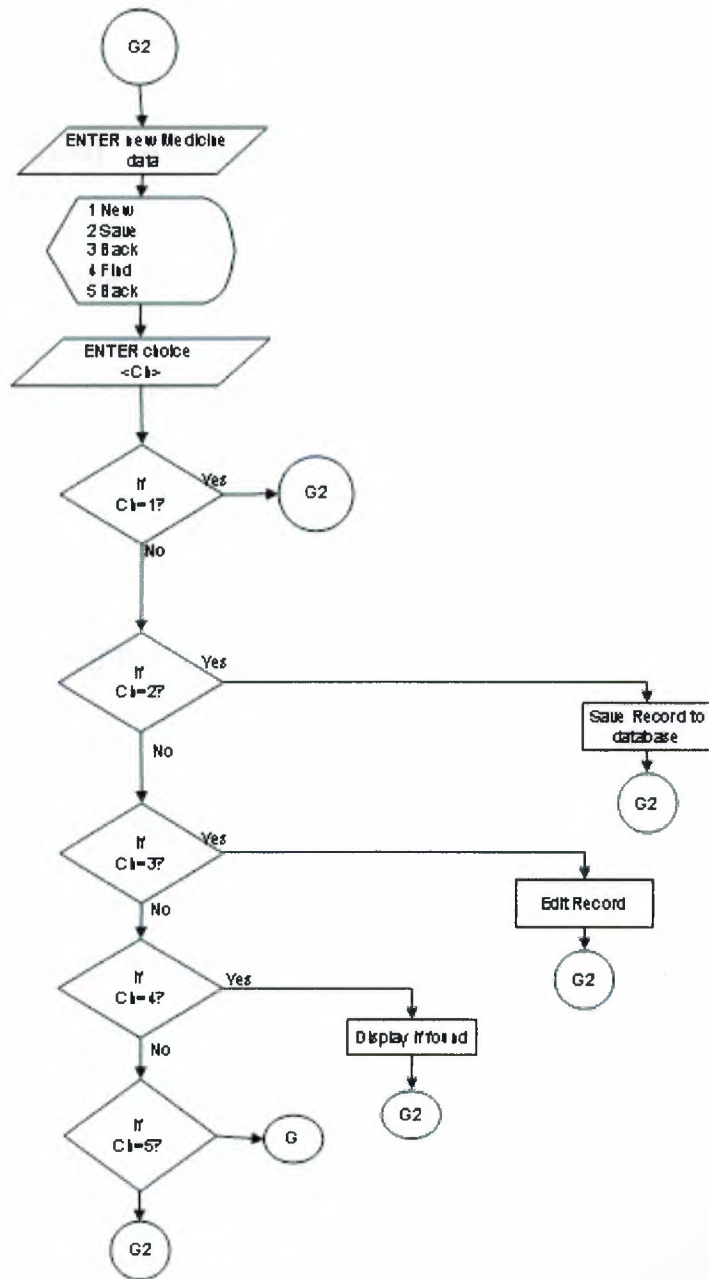
Standart data sub menu



Standart data Fee Form



Standart data Medicine Form



VIII. REFERENCE

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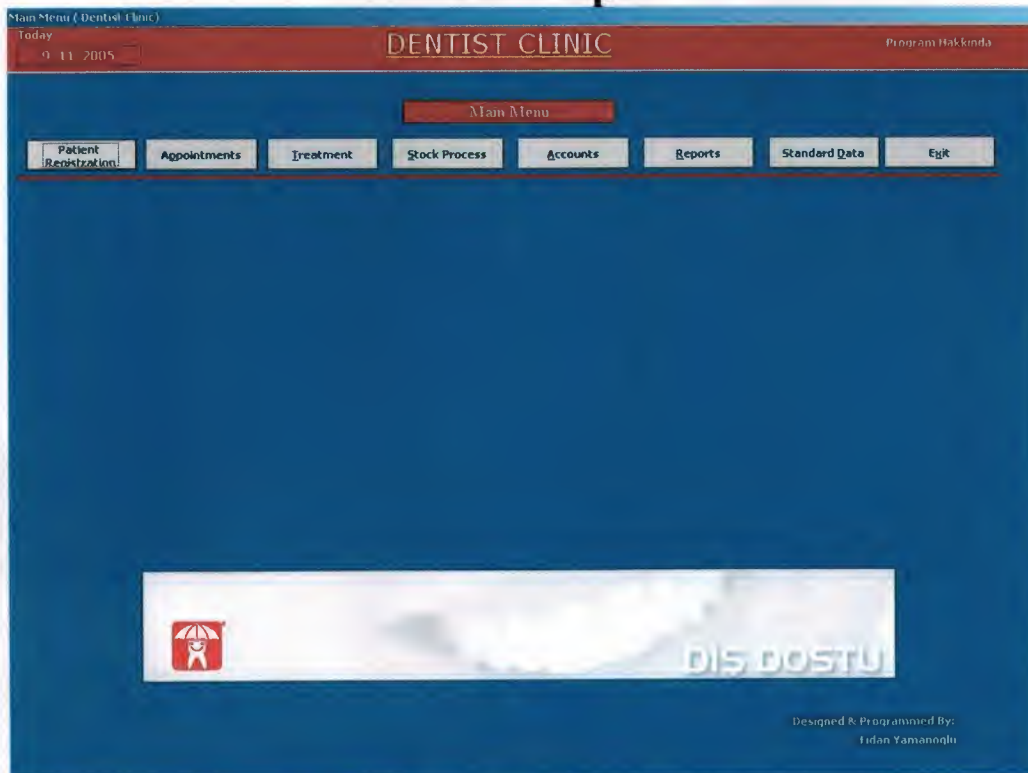
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www.utteraccess.com

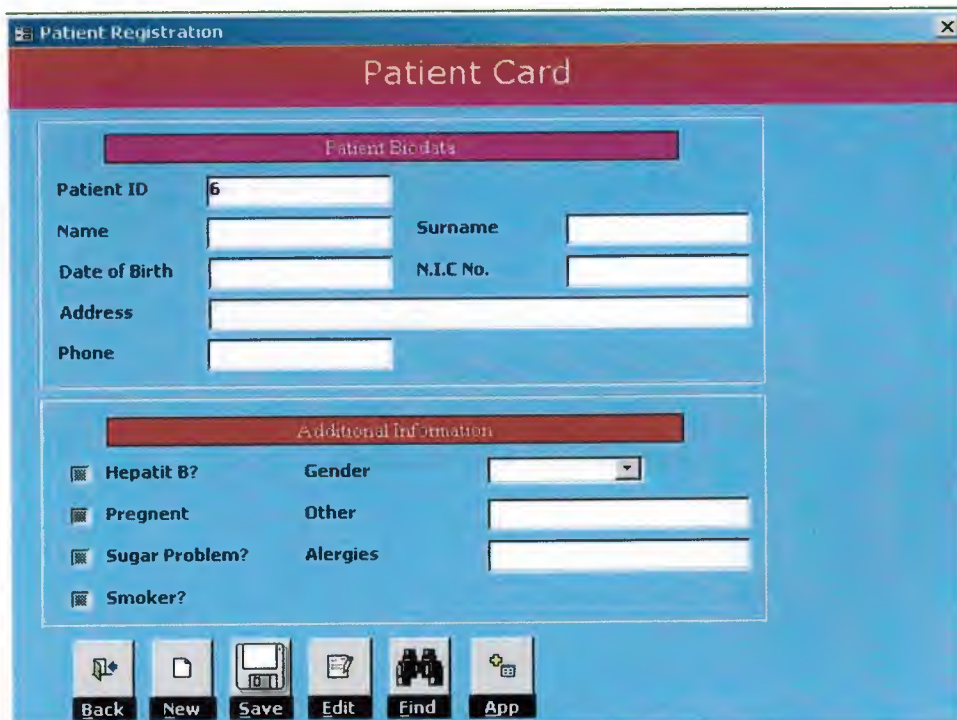
APPENDIX I

Screen Output



The screenshot shows the 'Main Menu (Dentist Clinic)' window. At the top, there's a header bar with 'DENTIST CLINIC' in the center, 'Today' on the left, and 'Program Hakkında' on the right. Below the header, a 'Main Menu' bar contains several buttons: 'Patient Registration', 'Appointments', 'Treatment', 'Stock Process', 'Accounts', 'Reports', 'Standard Data', and 'Egit'. The main area of the window is blue. At the bottom, there's a banner with a logo on the left and the text 'DIS DOSTU' on the right. In the bottom right corner, it says 'Designed & Programmed By: Irfan Yamannolu'.

Figure 1: Main Menu



The screenshot shows the 'Patient Registration' window, specifically the 'Patient Card' section. The window has a title bar 'Patient Registration' and a close button. The main area is titled 'Patient Card'. Below this, there's a section titled 'Patient Biodata' with several input fields: 'Patient ID' (with the value '6'), 'Name', 'Surname', 'Date of Birth', 'N.I.C. No.', 'Address', and 'Phone'. Below this, there's a section titled 'Additional Information' with checkboxes for 'Hepatit B?', 'Pregnant', 'Sugar Problem?', and 'Smoker?'. There are also input fields for 'Gender', 'Other', and 'Allergies'. At the bottom, there's a row of buttons: 'Back', 'New', 'Save', 'Edit', 'Find', and 'App'.

Figure 2: Patient Card



Figure 3: Appointment Sub menu

Appointments

today 9/11/2005

Appointments

Patient Information

Patient ID: 1

Name: Pinar Surname: yasar

View Patient Card

Appointment Information

App. ID: 8

Date: 8/22/2005 Hide Calendar

Time:

Reason: General Checkup

Fee: 250

Add Appointment

Patient Appointments History

Date	App_ID	Reason
8/22/2005	1	General Checkup
8/23/2005	3	dolgu
9/13/2005	7	General Checkup

Appointments of the Day

Time	Name	Surname	Phone	Reason
9:00	Pinar	yasar	5455	General Checkup
10:00	Fidan	Yamanoglu	78542145	dolgu

Aug 2005 Aug 2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Choose a date from the calendar to view its appointments or to select a date

Back

Figure 4: New Appointment

Today 9/11/2005

Cancel Appointments

Appointment Information

App. ID: 1
 Date: 8/22/2005
 Time: 9:00
 Reason: General Checkup

Patient Information

Patient ID: 1
 Name: Pinar Surname: yasar

Patient Appointment History

Date	App. ID	Reason
8/22/2005	1	General Checkup
8/22/2005	3	dogu
9/13/2005	7	General Checkup

Appointments of the day

Time	Name	Surname	Phone	Reason
9:00	Pinar	yasar	5465	General Checkup
10:00	Fidan	Yamanoglu	78542145	dogu

Figure 5: Cancel Appointment

Today 9/11/2005

Treatment Process

Appointment Information

App. ID: 1
 Date: 8/22/2005
 Time: 9:00
 Reason: General Checkup
 Treatment:
 Quantity: Fee: 0

Patient Information

Patient ID: 1
 Name: Pinar Surname: yasar

Accounts

Sub Total: 0
 Net Total:

Discount:
☐ Family 25 %
☐ Special 20 %
☐ 10 %
☐ No Discount

Treatment History

Treatment	Fee	Times	Total Fee
General Checkup	250.00	1	250.00

Prescriptions

Calcol Once every morning

Categories: Syrup
 Medicines: Calcol
 Tarara

Doze: Once every mon

Choose a category and then medicine from the list and enter the doze of the medicine to make a prescription

Figure 6: Treatment Process Form

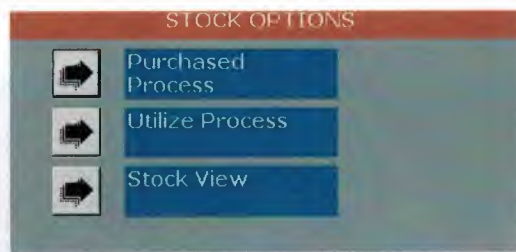


Figure 7: Stock Sub Menu

A screenshot of the "Purchased Process" form. The title bar says "Replenishment". The form has a red header with "Purchased Process" in yellow. Below the header, there are input fields for "Receipt No.", "Vendor", and "Date" (which contains "9/11/2005"). Below these are fields for "Product Code" (a dropdown), "Description", "Cost", "Quantity", and "Total". A large blue table area is in the center. At the bottom are buttons for "Back", "New", and "Save To Accounts".

Product Code	Description	Quantity	Cost	Total Cost

Figure 8: Purchased Process Form

A screenshot of the "Utilize Process" form. The title bar says "Utilize Process". The form has a red header with "Utilize Process" in yellow. Below the header, there are input fields for "Receipt No.", "Date" (which contains "9/11/2005"), "Product Code" (a dropdown), "Description", "In Stock", and "Quantity". A large blue table area is in the center. At the bottom are buttons for "Back" and "New".

Product Code	Description	Quantity

Figure 9: Utilized Process Form

Stock View

Stock View

Date: 9/12/2005

Product Code	Description	Total Purchased	Utilized	Balance
1	Calpol	100	0	100
2	Asprin	204	2	202

Back

Figure 10: Stock View Form

Reports

Accounts

Today: 9/11/2005

Expense Registration to the database

Electricity	0
Water	0
Phone	0
Other	0
Total	0

Figure 11: Monthly Expense Accounts Form

Reports

Enter patient to generate specific report

Patient ID

Patient Search

Enter two dates to generate required report

Date1

Date2

Report Menu

Patients List

Appointments Report

Specific Patient

Profit Report

Treatment Fee

Treatment Fee Date

Back

Figure 12: Reports Form

STANDARD DATA OPTIONS

Treatment Fee

Medicine Reg.

Figure 13: Standard Data Sub menu

Standard Fee Registration


Standard Data Registration Form

New ID for New Data:

ID:

Description:

Fee:



Back New Save Edit Find

Figure 14: Treatment Fee Form

Medicine Registration

Medicine Data Registration Form

Category Registration

Category ID:

Description:


Medicine Registration

Medicine ID:

Description:

Manufacturer:

About:



Back New Save Edit Find

Figure 15: Medicine Registration Form

Bu proje örnek bir programdır. 2005 yaz okulu mezuniyet projesidir.

Program diş hekimlerinin kliniklerinde kullanılan hasta takip programıdır.

Programın içerisinde hasta kayıt, randevu, tedavi, muhasebe, stock kontrolü ve raporlardan oluşurur.

Benim yaptığım analiz dışında farklı fikirleriniz varsa bana ulaşabilirsiniz. I



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0535 5695930

Figure 16: Program Information

APPENDIX II

Source Code

Main Menu

```
Private Sub Ctl_Accounts_Click()  
DoCmd.OpenForm ("Accounts")  
End Sub
```

```
Private Sub Ctl_Appointments_Click()  
Me.submenu.Visible = True  
Me.submenu.SourceObject = "subAppointments"  
End Sub
```

```
Private Sub Ctl_Data_Click()  
Me.submenu.Visible = True  
Me.submenu.SourceObject = "subStandard_data"  
End Sub
```

```
Private Sub Ctl_Registration_Click()  
DoCmd.OpenForm ("patients_reg")  
End Sub
```

```
Private Sub Ctl_Reports_Click()  
DoCmd.OpenForm "Reports"  
End Sub
```

```
Private Sub Ctl_Stock_Click()  
Me.submenu.Visible = True  
Me.submenu.SourceObject = "subStock"  
End Sub
```

```
Private Sub Ctl_Tedavi_Click()  
DoCmd.OpenForm "Treatment"  
End Sub
```

```
Private Sub Detail_Click()  
If Me.submenu.Visible = True Then  
    Me.E_xit.SetFocus  
    Me.submenu.Visible = False  
End If  
End Sub
```

```
Private Sub E_xit_Click()  
If MsgBox("Do you want to quit the program", vbYesNo, Me.Caption) = vbYes Then  
    DoCmd.Close acForm, "mainmenu"  
    ' Quit
```

End Sub

Private Sub Form_Load()

DoCmd.Maximize

End Sub

Private Sub Form_Timer()

Me.Label33.Caption = Mid(Me.Label33.Caption, 2, _
(Len(Me.Label33.Caption) - 1)) & Left(Me.Label33.Caption, 1)

End Sub

Patient Registration

Option Compare Database

Public db As DAO.Database

Public rs As DAO.Recordset

Public s As String

Private Sub CmdApp_Click()

DoCmd.OpenForm "Appointments"

Forms!Appointments!txtID = Me.txtID

DoCmd.Close acForm, "patients_reg"

End Sub

Private Sub cmdBack_Click()

DoCmd.Close acForm, "patients_reg"

End Sub

Private Sub cmdEdit_Click()

Set db = CurrentDb()

s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""

Set rs = db.OpenRecordset(s)

If rs.EOF And rs.BOF Then

MsgBox "This Id could not be found in the database", vbInformation, Me.Caption

Else

rs.Edit

rs.Fields("name").Value = Me.txtName

rs.Fields("surname").Value = Me.txtSname

rs.Fields("address").Value = Me.txtAddress

rs.Fields("phone").Value = Me.txtFone

rs.Fields("NIC").Value = Me.txtNIC

rs.Fields("D_O_Birth").Value = Me.txtDOB

rs.Fields("pre_Operation").Value = Me.prev_oper

rs.Fields("alergic").Value = Me.alergies

rs.Fields("gender").Value = Me.gender

rs.Fields("HP").Value = Me.HepatitB

```

rs.Fields("Sugar").Value = Me.Sugar
rs.Fields("smoker").Value = Me.Smoker
rs.Fields("pregnent").Value = Me.pregnent
rs.Update
MsgBox "Record Edited in the database", vbInformation, Me.Caption
End If
End Sub

```

```

Private Sub cmdFind_Click()
DoCmd.OpenForm "SearchOption"
End Sub

```

```

Private Sub cmdNew_Click()
Dim ctl As Control
For Each ctl In Screen.ActiveForm
    If TypeOf ctl Is CheckBox Then
        ctl = False
    ElseIf TypeOf ctl Is TextBox Then
        ctl = Null
    End If
Next ctl
Set db = CurrentDb()
Set rs = db.OpenRecordset("patients")
If rs.EOF And rs.BOF Then
    Me.txtID = 1
Else
    Me.txtID = rs.RecordCount + 1
End If
Me.txtName.SetFocus
End Sub

```

```

Private Sub cmdSave_Click()
If IsNull(Me.txtName) Then
    MsgBox "Please enter the patient's personal data", , Me.Caption
Else
    Set db = CurrentDb()
    s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""
    Set rs = db.OpenRecordset(s)
    If rs.EOF And rs.BOF Then
        rs.AddNew
        rs.Fields("patientID").Value = Me.txtID
        rs.Fields("name").Value = Me.txtName
        rs.Fields("surname").Value = Me.txtSname
        rs.Fields("address").Value = Me.txtAddress
        rs.Fields("phone").Value = Me.txtFone
        rs.Fields("NIC").Value = Me.txtNIC
    End If
End If

```



```

rs.Fields("D_O_Birth").Value = Me.txtDOB
rs.Fields("pre_Operation").Value = Me.prev_oper
rs.Fields("alergic").Value = Me.alergies
rs.Fields("gender").Value = Me.gender
rs.Fields("HP").Value = Me.HepatitB
rs.Fields("Sugar").Value = Me.Sugar
rs.Fields("smoker").Value = Me.Smoker
rs.Fields("pregnent").Value = Me.pregnent
rs.Update
MsgBox "Record Added to the database", vbInformation, Me.Caption
Else
MsgBox "This Id alrady exists in the database", vbInformation, Me.Caption
End If
End If
End Sub

```

```

Private Sub Form_Load()
Set db = CurrentDb()
Set rs = db.OpenRecordset("patients")
If rs.EOF And rs.BOF Then
Me.txtID = 1
Else
Me.txtID = rs.RecordCount + 1
End If
End Sub

```

Appointments sub menu

```

Private Sub cmdAssign_Click()
DoCmd.OpenForm "AppointmentsEdit"
End Sub

```

```

Private Sub cmdNew_Click()
DoCmd.OpenForm "Appointments"
End Sub

```

New Appointment Form

```

Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset, rs1 As DAO.Recordset
Public s As String, s1 As String

```

```

Private Sub Calendar6_Db1Click()
Me.txtdate = Me.Calendar6.Value
Me.txtTime.SetFocus

```

```
Me.subAppointments.Requery
End Sub
```

```
Private Sub Calendar6_Updated(Code As Integer)
End Sub
```

```
Private Sub cmbReason_AfterUpdate()
On Error Resume Next
s = "SELECT * FROM standard_data WHERE name='" & Me.cmbReason & "'"
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    Me.txtFee = ""
    Me.cmbReason = ""
    Me.txtID.SetFocus
    Me.cmbReason.SetFocus
Else
    Me.txtFee = rs.Fields("fee")
End If
rs.Close: Set rs = Nothing
End Sub
```

```
Private Sub cmbReason_BeforeUpdate(Cancel As Integer)

End Sub
```

```
Private Sub cmbtime_AfterUpdate()
s1 = "SELECT * FROM appointments WHERE date='" & Me.txttoday & "'"
Set rs1 = db.OpenRecordset(s1)
If rs1.EOF And rs1.BOF Then
    Me.txtTime = "09:00"
Else
    rs1.MoveLast
    MsgBox rs1.Fields("time").Value
    Me.txtTime = rs1.Fields("time") + Me.cmbtime
End If
End Sub
```

```
Private Sub cmbtime_BeforeUpdate(Cancel As Integer)

End Sub
```

```
Private Sub cmdADD_Click()
If Me.txtdate < Me.txttoday Then
    MsgBox "You can not make an appointment for a date that has been passed before", ,
Me.Caption
Else
```

```

If IsNull(Me.cmbReason) Or IsNull(Me.txtID) Then
    MsgBox "Please enter the values to required fields", , Me.Caption
Else
    s = "SELECT * FROM Appointments WHERE date=#" & Format(Me.txtdate,
"mm\dd\yyyy") & "# AND time=#" & Me.txtTime & "#"
    Set rs = db.OpenRecordset(s)
    If rs.EOF And rs.BOF Then
        Set rs = db.OpenRecordset(s)
        s = "SELECT * FROM Appointments WHERE patientID=" & Me.txtID & "
AND date=#" & Format(Me.txtdate, "mm\dd\yyyy") & "#"
        Set rs = db.OpenRecordset(s)
        If rs.EOF And rs.BOF Then
            rs.AddNew
            rs.Fields("AppID").Value = Me.txtappID
            rs.Fields("patientID").Value = Me.txtID
            rs.Fields("date").Value = Me.txtdate
            rs.Fields("reason").Value = Me.cmbReason
            rs.Fields("date").Value = Me.txtdate
            rs.Fields("time").Value = Me.txtTime
            rs.Update
            Me.txtappID = Me.txtappID + 1
            Me.subsession.Requery
            Me.subAppointments.Requery
            rs.Close: Set rs = Nothing
        Else
            MsgBox "Already one appointment has been added on this date by the current
patient"
        End If
    Else
        MsgBox "Appointment exists for the desired date and time", , Me.Caption
    End If
End If
End If
End Sub

```

```

Private Sub cmdBack_Click()
DoCmd.Close acForm, "Appointments"
End Sub

```

```

Private Sub cmdCalender_Click()
If Me.Calendar6.Visible = False Then
    Me.cmdCalender.Caption = "&Hide Calender"
    Me.Calendar6.Visible = True
    Me.Label76.Visible = True
Else
    Me.cmdCalender.Caption = "&Show Calender"

```

```

    Me.Calendar6.Visible = False
    Me.Label76.Visible = False
End If
End Sub

Private Sub cmdNew_Click()

End Sub

Private Sub cmdPatientCard_Click()
If IsNull(Me.txtID) Or Me.txtID = "" Then
    MsgBox "Enter any patient ID in order to view his/her card", , Me.Caption
    Me.txtID.SetFocus
Else
    DoCmd.OpenForm "patients_reg"
    Set db = CurrentDb()
    s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""
    Set rs = db.OpenRecordset(s)
    Forms!patients_reg!txtID = Me.txtID
    Forms!patients_reg!txtName = rs.Fields("name").Value
    Forms!patients_reg!txtSname = rs.Fields("surname").Value
    Forms!patients_reg!txtAddress = rs.Fields("address").Value
    Forms!patients_reg!txtFone = rs.Fields("phone").Value
    Forms!patients_reg!txtNIC = rs.Fields("NIC").Value
    Forms!patients_reg!txtDOB = rs.Fields("D_O_Birth").Value
    Forms!patients_reg!Sugar = rs.Fields("sugar")
    Forms!patients_reg!pregnent = rs.Fields("pregnent")
    Forms!patients_reg!HepatitB = rs.Fields("HP")
    Forms!patients_reg!gender = rs.Fields("gender")
    Forms!patients_reg!prev_oper = rs.Fields("pre_Operation")
    Forms!patients_reg!Smoker = rs.Fields("smoker")
    Forms!patients_reg!alergies = rs.Fields("alergic")
End If
End Sub

Private Sub Form_Close()
db.Close: Set db = Nothing
End Sub

Private Sub Form_Load()
DoCmd.Maximize
Set db = CurrentDb()
Set rs = db.OpenRecordset("Appointments")
If rs.EOF And rs.BOF Then
    Me.txtappID = 1
Else

```



```

Me.txtappID = rs.RecordCount + 1
'rs.MoveFirst
'Do While Not rs.EOF
'  If Me.txttoday < rs.Fields("date") And rs.Fields("canceled") = True Then
'    Me.txtdate = rs.Fields("date")
'    Me.txtTime = rs.Fields("time")
'    Exit Do
'  Else
'    rs.MoveLast
'    Me.txtdate = rs.Fields("date")
'    Me.txtTime = rs.Fields("time") + 0.021
'  End If
'  rs.MoveNext
'Loop
End If
rs.Close: Set rs = Nothing
End Sub

Private Sub txtdate_AfterUpdate()
Me.subAppointments.Requery
End Sub

Private Sub txtdate_BeforeUpdate(Cancel As Integer)

End Sub

Private Sub txtID_AfterUpdate()
On Error Resume Next
s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
  MsgBox "No patient was found with the entered patient ID, please enter a valid patient ID", , Me.Caption
  Me.txtID = ""
  Me.cmbReason.SetFocus
  Me.txtID.SetFocus
Else
  Me.txtName = rs.Fields("name").Value
  Me.txtSname = rs.Fields("surname").Value
  Me.txtdate.SetFocus
  Me.subsession.Requery
End If
rs.Close: Set rs = Nothing
End Sub

```


Cancel Appointment

```
Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset
Public s As String
```

```
Private Sub Calendar6_Db1Click()
Me.txtdate = Me.Calendar6.Value
Me.subAppointments.Requery
End Sub
```

```
Private Sub Calendar6_Updated(Code As Integer)
End Sub
```

```
Private Sub cmdBack_Click()
DoCmd.Close acForm, "AppointmentsEdit"
End Sub
```

```
Private Sub cmdCalender_Click()
If Me.Calendar6.Visible = False Then
    Me.cmdCalender.Caption = "&Hide Calender"
    Me.Calendar6.Visible = True
    Me.Label76.Visible = True
Else
    Me.cmdCalender.Caption = "&Show Calender"
    Me.Calendar6.Visible = False
    Me.Label76.Visible = False
End If
End Sub
```

```
Private Sub cmdCancel_Click()
s = "SELECT * FROM Appointments WHERE AppID=" & Me.txtappID & " AND"
canceled=False"
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    MsgBox "No such active appointment found in the database", , Me.Caption
Else
    rs.Edit
    rs.Fields("canceled").Value = True
    rs.Update
    MsgBox "Appointment successfully canceled", , Me.Caption
    Me.txtappID.SetFocus
End If
rs.Close: Set rs = Nothing
```

End Sub

Private Sub cmdPatientCard_Click()

If IsNull(Me.txtID) Or Me.txtID = "" Then

MsgBox "Enter any patient ID in order to view his/her card", , Me.Caption
Me.txtappID.SetFocus

Else

DoCmd.OpenForm "patients_reg"

Set db = CurrentDb()

s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""

Set rs = db.OpenRecordset(s)

Forms!patients_reg!txtID = Me.txtID

Forms!patients_reg!txtName = rs.Fields("name").Value

Forms!patients_reg!txtSname = rs.Fields("surname").Value

Forms!patients_reg!txtAddress = rs.Fields("address").Value

Forms!patients_reg!txtFone = rs.Fields("phone").Value

Forms!patients_reg!txtNIC = rs.Fields("NIC").Value

Forms!patients_reg!txtDOB = rs.Fields("D_O_Birth").Value

Forms!patients_reg!Sugar = rs.Fields("sugar")

Forms!patients_reg!pregnent = rs.Fields("pregnent")

Forms!patients_reg!HepatitB = rs.Fields("HP")

Forms!patients_reg!gender = rs.Fields("gender")

Forms!patients_reg!prev_oper = rs.Fields("pre_Operation")

Forms!patients_reg!Smoker = rs.Fields("smoker")

Forms!patients_reg!allergies = rs.Fields("alergic")

End If

End Sub

Private Sub Form_Close()

db.Close: Set db = Nothing

End Sub

Private Sub Form_Load()

DoCmd.Maximize

Set db = CurrentDb()

End Sub

Private Sub txtappID_AfterUpdate()

s = "SELECT * FROM Appointments WHERE AppID=" & Me.txtappID & ""

Set rs = db.OpenRecordset(s)

If rs.EOF And rs.BOF Then

MsgBox "Appointment not found please re enter the appointment ID", , Me.Caption
Me.txtappID = ""

Me.txtdate.SetFocus

Me.txtappID.SetFocus

Else

```

Me.txtID = rs.Fields("patientID")
Me.txtdate = rs.Fields("date")
Me.txtTime = rs.Fields("time")
Me.cmbReason = rs.Fields("reason")
s = "SELECT * FROM patients WHERE patientID=" & rs.Fields("patientID") & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
Else
    Me.txtName = rs.Fields("name")
    Me.txtSname = rs.Fields("surname")
End If
End If
Me.subsession.Requery
Me.subAppointments.Requery
End Sub

```

Treatment

```

Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset
Public s As String

```

```

Private Sub cmbMed_categories_AfterUpdate()
Me.list_medicines.Requery
End Sub

```

```

Private Sub cmbmed_categories_BeforeUpdate(Cancel As Integer)

```

```

End Sub

```

```

Private Sub cmbReason_AfterUpdate()
s = "SELECT * FROM standard_data WHERE name=" & Me.cmbReason & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
Else
    txtFee = rs.Fields("fee")
End If
s = "SELECT * FROM Tedavi WHERE AppID=" & Me.txtappID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    rs.AddNew
    rs.Fields("AppID").Value = Me.txtappID
    rs.Fields("patientID").Value = Me.txtID
    rs.Fields("date").Value = Me.txttoday
    If rs.Fields("tedavi") = Null Or rs.Fields("tedavi").Value = "" Then

```

```

        rs.Fields("tedavi").Value = Me.cmbReason
    Else
        rs.Fields("tedavi").Value = rs.Fields("tedavi").Value & "," & Me.cmbReason
    End If
    rs.Update
    Me.txttedavi = rs.Fields("tedaviID")
Else
    rs.Edit
    If rs.Fields("tedavi") = Null Or rs.Fields("tedavi").Value = "" Then
        rs.Fields("tedavi").Value = Me.cmbReason
    Else
        rs.Fields("tedavi").Value = rs.Fields("tedavi").Value & "," & Me.cmbReason
    End If
    rs.Update
    Me.txttedavi = rs.Fields("tedaviID")
    Me.txtquantity.SetFocus
End If
Me.subsession.Requery
rs.Close: Set rs = Nothing
End Sub

Private Sub cmbReason_BeforeUpdate(Cancel As Integer)

End Sub

Private Sub cmdAccounts_Click()
s = "SELECT * FROM accounts WHERE tedaviID=" & Me.txttedavi & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    rs.AddNew
    rs.Fields("tedaviID").Value = Me.txttedavi
    rs.Fields("debit").Value = Me.txtNettotal
    rs.Fields("date").Value = Me.txttoday
    rs.Update
Else
    rs.Edit
    rs.Fields("tedaviID").Value = Me.txttedavi
    rs.Fields("debit").Value = Me.txtNettotal
    rs.Fields("date").Value = Me.txttoday
    rs.Update
End If
End Sub

Private Sub cmdBack_Click()
DoCmd.Close acForm, "Tedavi"
End Sub

```



```

Private Sub cmdPatientCard_Click()
If IsNull(Me.txtID) Or Me.txtID = "" Then
    MsgBox "Enter any patient ID in order to view his/her card", , Me.Caption
    Me.txtappID.SetFocus
Else
    DoCmd.OpenForm "patients_reg"
    Set db = CurrentDb()
    s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""
    Set rs = db.OpenRecordset(s)
    Forms!patients_reg!txtID = Me.txtID
    Forms!patients_reg!txtName = rs.Fields("name").Value
    Forms!patients_reg!txtSname = rs.Fields("surname").Value
    Forms!patients_reg!txtAddress = rs.Fields("address").Value
    Forms!patients_reg!txtFone = rs.Fields("phone").Value
    Forms!patients_reg!txtNIC = rs.Fields("NIC").Value
    Forms!patients_reg!txtDOB = rs.Fields("D_O_Birth").Value
    Forms!patients_reg!Sugar = rs.Fields("sugar")
    Forms!patients_reg!pregnent = rs.Fields("pregnent")
    Forms!patients_reg!HepatitB = rs.Fields("HP")
    Forms!patients_reg!gender = rs.Fields("gender")
    Forms!patients_reg!prev_oper = rs.Fields("pre_Operation")
    Forms!patients_reg!Smoker = rs.Fields("smoker")
    Forms!patients_reg!alergies = rs.Fields("alergic")
    rs.Close: Set rs = Nothing
End If
End Sub

Private Sub cmdPrint_Click()
DoCmd.OpenReport "Prescription_Report", acViewPreview
End Sub

Private Sub Form_Close()
db.Close: Set db = Nothing
End Sub

Private Sub Form_Load()
DoCmd.Maximize
Set db = CurrentDb()
End Sub

Private Sub listPrescriptions_BeforeUpdate(Cancel As Integer)

End Sub

Private Sub listPrescriptions_DblClick(Cancel As Integer)

```



```

n = Me.listPrescriptions.ListIndex
Me.listPrescriptions.RemoveItem (n)
End Sub

```

```

Private Sub Option10_GotFocus()
Me.txtNettotal = Me.txtsubtotal - ((Me.txtsubtotal * 10) / 100)
End Sub

```

```

Private Sub Option126_GotFocus()
Me.txtNettotal = Me.txtsubtotal
End Sub

```

```

Private Sub OptionF_GotFocus()
Me.txtNettotal = Me.txtsubtotal - ((Me.txtsubtotal * 25) / 100)
End Sub

```

```

Private Sub OptionS_GotFocus()
Me.txtNettotal = Me.txtsubtotal - ((Me.txtsubtotal * 20) / 100)
End Sub

```

```

Private Sub txtappID_AfterUpdate()
s = "SELECT * FROM Appointments WHERE AppID=" & Me.txtappID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    MsgBox "Appointment not found please re enter the appointment ID", , Me.Caption
    Me.txtappID = ""
    Me.txtdate.SetFocus
    Me.txtappID.SetFocus
Else
    Me.txtID = rs.Fields("patientID")
    Me.txtdate = rs.Fields("date")
    Me.txtTime = rs.Fields("time")
    s = "SELECT * FROM patients WHERE patientID=" & Me.txtID & ""
    Set rs = db.OpenRecordset(s)
    If rs.EOF And rs.BOF Then
        Else
            Me.txtName = rs.Fields("name")
            Me.txtSname = rs.Fields("surname")
        End If
    End If
    Me.subsession.Requery
    rs.Close: Set rs = Nothing
End Sub

```

```

Private Sub txtDoze_AfterUpdate()
n = Me.list_medicines.ListIndex

```

```

If n < 0 Then
    MsgBox "Select a medicine from the list before entering the doze value", , Me.Caption
Else
    Me.listPrescriptions.AddItem Me.list_medicines.ItemData(n) & " " & Me.txtDoze
End If
End Sub

```

```

Private Sub txtquantity_AfterUpdate()
Me.txtsubtotal = Me.txtsubtotal + (Me.txtFee * Me.txtquantity)
End Sub

```

Sub stock menu

Option Compare Database

```

Private Sub cmdStock_view_Click()
DoCmd.OpenForm ("Stock_View")
End Sub

```

```

Private Sub Ctl_New_Click()
DoCmd.OpenForm ("replenishment")
End Sub

```

```

Private Sub Ctl_Utilize_Click()
DoCmd.OpenForm ("utilize")
End Sub

```

Purchased Stock Process

```

Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset
Public s As String

```

```

Private Sub cmbpcode_AfterUpdate()
s = "SELECT * FROM medicines WHERE medID=" & Me.cmbpcode & " "
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    Me.txtpname.SetFocus
    Me.cmbpcode.SetFocus
Else
    Me.txtpname = rs.Fields("name")
    Me.txtcost.SetFocus
End If
rs.Close: Set rs = Nothing

```

End Sub

Private Sub cmbpcode_BeforeUpdate(Cancel As Integer)
End Sub

Private Sub cmdBack_Click()
If MsgBox("Did you save the vendor accounts?", vbYesNo, Me.Caption) = vbYes Then
 DoCmd.Close acForm, "Replenishment"
Else
 Me.cmdSave.SetFocus
End If
End Sub

Private Sub cmdNew_Click()
Set rs = db.OpenRecordset("Invoice")
rs.AddNew
rs.Fields("date").Value = Me.txtdate
rs.Fields("type").Value = "Purchase"
Me.txtrec_no = rs.Fields("Invoice_No").Value
rs.Update
Me.txtvendor.SetFocus
rs.Close: Set rs = Nothing
End Sub

Private Sub cmdSave_Click()
Dim n As Integer
If IsNull(Me.txtvendor) Then
 MsgBox "Please select a vendor from the dropdown box"
Else
 s = "SELECT * FROM accounts WHERE Invoice_No=" & Me.txtrec_no & ""
 Set rs = db.OpenRecordset(s)
 If rs.EOF And rs.BOF Then
 rs.AddNew
 rs.Fields("Invoice_No").Value = Me.txtrec_no
 rs.Fields("Invoice_No").Value = Me.txtrec_no
 rs.Fields("credit").Value = Forms!Replenishment!suborder!txtSum
 rs.Fields("date").Value = Me.txtdate
 rs.Update
 Me.suborder.Enabled = False
 MsgBox "Stock and accounts Updated", vbInformation, Me.Caption
 Else
 rs.Edit

 rs.Fields("Invoice_No").Value = Me.txtrec_no
 rs.Fields("credit").Value = Forms!frmReplenishment!suborder!txtSum
 rs.Fields("date").Value = Me.txtdate

```

rs.Update
Me.suborder.Enabled = False
MsgBox "Stock and accounts edited", vbInformation, Me.Caption
End If
End If
End Sub

```

```

Private Sub Form_Close()
db.Close: Set db = Nothing
End Sub

```

```

Private Sub Form_Load()
Set db = CurrentDb()
End Sub

```

```

Private Sub txtqty_AfterUpdate()
s = "SELECT * FROM MainStock WHERE Invoice_No=" & Me.txtrec_no & " AND
medID=" & Me.cmbpcode & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
rs.AddNew
rs.Fields("Invoice_No").Value = Me.txtrec_no
rs.Fields("vendor").Value = Me.txtvendor
rs.Fields("medID").Value = Me.cmbpcode
rs.Fields("quantity_purchased").Value = Me.txtqty
rs.Fields("cost_per_item").Value = Me.txtcost
rs.Fields("date").Value = Me.txtdate
rs.Fields("Total_Cost").Value = Me.txtTotal
rs.Update
Me.suborder.Requery
Me.cmbpcode.SetFocus
Else
MsgBox "This product is added to the receipt", vbInformation, Me.Caption
Me.cmbpcode.SetFocus
End If
End Sub

```

Utilize stock Process

```

Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset
Public s As String

```

```

Private Sub cmbpcode_AfterUpdate()
On Error Resume Next

```



```

s = "SELECT * FROM medicines WHERE medID=" & Me.cmbpcode & " "
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    Me.txtpname.SetFocus
    Me.cmbpcode.SetFocus
Else
    Me.txtpname = rs.Fields("name")
    s = "SELECT * FROM MainStock WHERE medID=" & Me.cmbpcode & " "
    Set rs = db.OpenRecordset(s)
    rs.MoveFirst
    p = 0
    u = 0
    Do While Not rs.EOF
        p = p + rs.Fields("quantity_purchased").Value
        u = u + rs.Fields("quantity_utilized").Value
        rs.MoveNext
    Loop
    Me.txtInstock = p - u
    Me.txtqty.SetFocus
End If
rs.Close: Set rs = Nothing
End Sub

Private Sub cmbpcode_BeforeUpdate(Cancel As Integer)
End Sub

Private Sub cmdBack_Click()
DoCmd.Close acForm, "utilize"
End Sub

Private Sub cmdNew_Click()
Set rs = db.OpenRecordset("Invoice")
rs.AddNew
rs.Fields("date").Value = Me.txtdate
rs.Fields("type").Value = "Utilize"
Me.txtrec_no = rs.Fields("Incoice_No").Value
rs.Update
Me.cmbpcode.SetFocus
rs.Close: Set rs = Nothing
End Sub

Private Sub Form_Close()
db.Close: Set db = Nothing
End Sub

Private Sub Form_Load()

```



```
Set db = CurrentDb()
End Sub
```

```
Private Sub txtqty_AfterUpdate()
s = "SELECT * FROM MainStock WHERE Invoice_No=" & Me.txtrec_no & " AND
medID=" & Me.cmbpcode & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    rs.AddNew
    rs.Fields("Invoice_No").Value = Me.txtrec_no
    rs.Fields("medID").Value = Me.cmbpcode
    rs.Fields("quantity_utilized").Value = Me.txtqty
    rs.Fields("date").Value = Me.txtdate
    rs.Update
    Me.suborder.Requery
    Me.cmbpcode.SetFocus
Else
    MsgBox "This product is added to the receipt", vbInformation, Me.Caption
    Me.cmbpcode.SetFocus
End If
End Sub
```

Accounts expense registration

Reports form

Option Compare Database

```
Private Sub App_report_Click()
DoCmd.OpenReport "Appointments_report", acViewPreview
End Sub
```

```
Private Sub cmdBack_Click()
DoCmd.Close acForm, "Reports"
End Sub
```

```
Private Sub cmdTreatment_Click()
DoCmd.OpenReport "treatment_fee", acViewPreview
End Sub
```

```
Private Sub PatientList_Click()
DoCmd.OpenReport "PatientList", acViewPreview
End Sub
```

```
Private Sub Sp_Patient_report_Click()
If IsNull(patientID) Then
```

```

    MsgBox "Please enter a valid patient ID to generate specific report", , Me.Caption
    Me.patientID.SetFocus
Else
    DoCmd.OpenReport "Specific_Patient_Report", acViewPreview
    Me.patientID.SetFocus
End If
End Sub

```

Standard Data sub menu

Option Compare Database

```

Private Sub cmdMedicine_Click()
DoCmd.OpenForm "Medicine_data"
End Sub

```

```

Private Sub cmdTreatment_Click()
DoCmd.OpenForm "Standard_data"
End Sub

```

Standard Data fee registration form

```

Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset
Public s As String

```

```

Private Sub cmdBack_Click()
DoCmd.Close acForm, "standard_data"
End Sub

```

```

Private Sub cmdEdit_Click()
Set db = CurrentDb()
s = "SELECT * FROM standard_data WHERE ID=" & Me.txtID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    MsgBox "This Id could not be found in the database", vbInformation, Me.Caption
Else
    rs.Edit
    rs.Fields("name").Value = Me.txtName
    rs.Fields("fee").Value = Me.txtFee
    rs.Update
    MsgBox "Record Edited in the database", vbInformation, Me.Caption
End If
End Sub

```

```

Private Sub cmdFind_Click()
Set db = CurrentDb()
s = "SELECT * FROM standard_data WHERE ID=" & Me.txtID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
MsgBox "This Id could not be found in the database", vbInformation, Me.Caption
Else
Me.txtFee = rs.Fields("fee")
Me.txtName = rs.Fields("name")
End If
End Sub

```

```

Private Sub cmdNew_Click()
Me.txtID = Null: Me.txtName = Null
Me.txtFee = Null
Set db = CurrentDb()
Set rs = db.OpenRecordset("standard_data")
If rs.EOF And rs.BOF Then
Me.txtID = 1
Else
Me.txtID = rs.RecordCount + 1
End If
Me.txtName.SetFocus
End Sub

```

```

Private Sub cmdSave_Click()
Set db = CurrentDb()
s = "SELECT * FROM standard_data WHERE ID=" & Me.txtID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
rs.AddNew
rs.Fields("ID").Value = Me.txtID
rs.Fields("name").Value = Me.txtName
rs.Fields("fee").Value = Me.txtFee
rs.Update
MsgBox "Record Added to the database", vbInformation, Me.Caption
Else
MsgBox "This Id already exists in the database", vbInformation, Me.Caption
End If
End Sub

```

```

Private Sub Form_Load()
Set db = CurrentDb()
Set rs = db.OpenRecordset("standard_data")
If rs.EOF And rs.BOF Then
Me.txtID = 1

```

```

Else
    Me.txtID = rs.RecordCount + 1
End If
End Sub

```

Medicine Registration form

```

Option Compare Database
Public db As DAO.Database
Public rs As DAO.Recordset
Public s As String

```

```

Private Sub cmdBack_Click()
DoCmd.Close acForm, "Medicine_data"
End Sub

```

```

Private Sub cmdEdit_Click()
s = "SELECT * FROM medicines WHERE medID=" & Me.txtmedID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    rs.Edit
    rs.Fields("catID").Value = Me.txtID
    rs.Fields("name").Value = Me.txtmedName
    rs.Fields("manafacturer").Value = Me.txtmanafacturer
    rs.Fields("about").Value = Me.txtabout
    rs.Update
    MsgBox "Record Added to the database", vbInformation, Me.Caption
Else
    MsgBox "This Id alrady exists in the database", vbInformation, Me.Caption
End If
End Sub

```

```

Private Sub cmdFind_Click()
s = "SELECT * FROM medicines WHERE medID=" & Me.txtmedID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    MsgBox "This Id could not be found in the database", vbInformation, Me.Caption
Else
    Me.txtID = rs.Fields("catID")
    Me.txtName = rs.Fields("name")
    Me.txtmanafacturer = rs.Fields("manafacturer")
    Me.txtabout = rs.Fields("about")
    s = "SELECT * FROM categories WHERE catID=" & Me.txtID & ""
    Set rs = db.OpenRecordset(s)
    If rs.EOF And rs.BOF Then
        Else

```



```

        Me.txtName = rs.Fields("name")
    End If
End If
End Sub

```

```

Private Sub cmdNew_Click()
Dim ctl As Control
For Each ctl In Screen.ActiveForm
    If TypeOf ctl Is TextBox Then
        ctl = Null
    End If
Next ctl
Set db = CurrentDb()
Set rs = db.OpenRecordset("categories")
If rs.EOF And rs.BOF Then
    Me.txtID = 1
Else
    Me.txtID = rs.RecordCount + 1
End If
Set rs = db.OpenRecordset("medicines")
If rs.EOF And rs.BOF Then
    Me.txtmedID = 1
Else
    Me.txtmedID = rs.RecordCount + 1
End If
Me.txtID.SetFocus
End Sub

```

```

Private Sub cmdSave_Click()
s = "SELECT * FROM medicines WHERE medID=" & Me.txtmedID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    rs.AddNew
    rs.Fields("medID").Value = Me.txtmedID
    rs.Fields("catID").Value = Me.txtID
    rs.Fields("name").Value = Me.txtmedName
    rs.Fields("manufacturer").Value = Me.txtmanufacturer
    rs.Fields("about").Value = Me.txtabout
    rs.Update
    MsgBox "Record Added to the database", vbInformation, Me.Caption
Else
    MsgBox "This Id already exists in the database", vbInformation, Me.Caption
End If
End Sub

```

```

Private Sub Form_Close()

```



```
db.Close: Set db = Nothing
End Sub
```

```
Private Sub Form_Load()
Set db = CurrentDb()
Set rs = db.OpenRecordset("categories")
If rs.EOF And rs.BOF Then
    Me.txtID = 1
Else
    Me.txtID = rs.RecordCount + 1
End If
Set rs = db.OpenRecordset("medicines")
If rs.EOF And rs.BOF Then
    Me.txtmedID = 1
Else
    Me.txtmedID = rs.RecordCount + 1
End If
End Sub
```

```
Private Sub txtID_AfterUpdate()
s = "SELECT * FROM categories WHERE catID=" & Me.txtID & ""
Set rs = db.OpenRecordset(s)
If rs.EOF And rs.BOF Then
    If MsgBox("This Id could not be found in the database, do you want to add a new category?", vbYesNo, Me.Caption) = vbYes Then
        MsgBox "Enter the description of the category and press ENTER to add the new category", , Me.Caption
        Me.txtName = Null
        Me.txtName.Enabled = True
        Set rs = db.OpenRecordset("categories")
        If rs.EOF And rs.BOF Then
            Me.txtID = 1
        Else
            Me.txtID = rs.RecordCount + 1
        End If
        Me.txtName.SetFocus
    Else
        Me.txtID = Null
        Me.txtmedID.SetFocus: Me.txtID.SetFocus
    End If
Else
    Me.txtName = rs.Fields("name"): Me.txtmedID.SetFocus
End If
End Sub
```

```
Private Sub txtID_BeforeUpdate(Cancel As Integer)
```

End Sub

Private Sub txtName_AfterUpdate()

s = "SELECT * FROM categories WHERE catID=" & Me.txtID & ""

Set rs = db.OpenRecordset(s)

If rs.EOF And rs.BOF Then

 rs.AddNew

 rs.Fields("catID").Value = Me.txtID

 rs.Fields("name").Value = Me.txtName

 rs.Update

 Me.txtmedID.SetFocus

 Me.txtName.Enabled = False

 MsgBox "Record Added to the database", vbInformation, Me.Caption

Else

 Me.txtID.SetFocus

 Me.txtName.Enabled = False

 MsgBox "This Id already exists in the database", vbInformation, Me.Caption

End If

End Sub