

PATIENTS DIAGNOSIS SYSTEM



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Computer Science.*

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Islamabad.



BY,

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Final Approval

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Preface to Project

This project titled with Patient Diagnosis System has been developed with Oracle & Developer 2000. This System provides efficient means of data storage & retrieved through Variety of fields. During the storage of information various validation-checks are provided on the data, which improves the reliability and accuracy of the system.

Advantage of computerized system is it provides great amenity for retrieved of information in the form of report. At the key point in a project the user is given the opportunity to achieve required objectives by carrying out short tests. It is hoped by using this software error-free report regarding the patient's can be obtained.



Project Brief

Project Title:	Patient Diagnosis System
Objective:	Patient Diagnosis system and Treatment of Patient.
Under taken By:	Sher-ur-Rehman & Najeeb ullah Khan
Supervised By:	Dr.Ghulam Muhammad
Starting Date:	10th July 2003
Date of Completion:	20th September 2003
Source Language:	Oracle 7.3 & Developer 2000
Operating System used:	Windows 2000

Table of Contents

Unit 1: Introduction: -

1.1	Objective of Study-----	2
1.2	Existing System-----	2
1.3	History of Patient-----	2
1.4	Diagnosis of Disease of Patient-----	3
1.5	Treatment-----	3
1.6	Record of a patient-----	3
1.7	Functionality of the system-----	4

Unit 2: Proposed System: -----8

2.1	Study Phase-----	9
2.1.1	Requirements of the proposed system-----	9
2.1.2	Objectives of the proposed system-----	9
2.2	Design Phase-----	10
2.3	Development Phase-----	11
2.4	Proposed System-----	11

Unit 3: System Design Phase: -----12

3.1	Input Designing System-----	13
3.1.1	Code Designing-----	13
3.1.2	Designing Input Screen-----	13
3.2	Output Designing-----	14
3.2.1	Reports-----	15

Unit 4: Software Development & Implementation: -----16

4.1	Language Selection-----	17
4.2	Software Development-----	17

Unit 5: Physical Database: -----19

5.1	Database structures-----	20
5.1.1	All types of tables within database-----	20
Unit 6: Conclusion: -----		36
6.1	Feeding-----	37
6.2	System Evaluation-----	37
Unit 7: Batchman tables: -----		39
Unit 8: System Flowchart: -----		47
Appendix A	Input Screens-----	48
Appendix B	Output Screens-----	50
Unit 9: Forms: -----		53



UNIT 1

INTRODUCTION

Unit-1

INTRODUCTION:

In the Present Days the computer has become a part of life. Every activity of life through computer has become more active and quick. Now Computers are used in hospitals to overcome the problems of the doctors due to the increasing number of patients. Therefore, there is need to develop such software through which doctor can have direct and easy access to the data Released to the patient The database of patient diagnosis system of Pakistan Institute of Medical Sciences, has developed according to the need of the hospital. One can access the data thoroughly about each and every information of the patients related hospital staff and all others hospital related information can be accessed easily.

1.1 Objectives of the study: -

This software provides diagnosis, evolution, and treatment. Have new and follows up patients suffering from different diseases. It's activates in the Past few years have encompassed all areas of clinical work which comes under its Fields. Statistical data indicate and increasing work load on the hospital. Keeping in View this increasing workload can wastage of precious time utilizing the costly Equipment due to the slow manual file work? So it is needed to computerize the medical Treatment system. Therefore, the present system study was carried out to design a database Which will provide relevant information about any patient visiting to the hospital.

1.2 Existing system: -

Presently there is a conventional card based system in the hospital. Therefore through every patient is registered. The patient diagnosis system provides us all information about the patient and their treatment as well as the relevant hospital database.

1.3 History of Patient: -

In this software first of all patient's registration will be done ,after registration it will be decided whether the patient is serious or not if it is got serious trouble then be admitted in the hospital the computer will Save his history and then take further decision according to the patient's history. Computer will record his data and will decide whether the patient is serious to be admitted in the hospital or only provide him little treatment and consider as outdoor patient.

1.4 Diagnosis of Diseases: -

When a history and all relevant record of the patient is entered to the computer then it will be decided by the computer that which disease a patient has and according to his symptoms the related doctor is to taken his treatment. If the case is very serious and the doctor at the spot does not able to treat the patient properly so they may be suggested to refer any other hospital or doctor. If symptoms are not properly entered then computer will not give any reasonable response. This software has facility to decide the indoor and outdoor patient and allot him a related ward no and bed no. As well as the charges of different things will also be considered.

1.5 Treatment of Patient: -

After the diagnosis of disease the computer will suggest. The proper treatment corresponding to the disease. We can also add any medicine. According to the condition of patient. The patient diagnosis system has a facility to provide us information about the patient related to his disease and well as the hospital account system.

1.6 Record Of Patient: -

All the patients will be registered according to the patient. Login name and password. The system has facility that every record of patient that is record of blood pressure record of lab test record of food, fees, checkup, and record of medicine. We can easily search of record of any patient within no time through ID No.

Functionality Of System: -

a) Patient Entry Discharge System:

This Section deals with the registration, admission and discharge of patient. This section consists of the following three forms.

i. Patient Registration Form:

In this form the bio-data of a patient that arrives the hospital is recorded. All the fields of the form are filled from information provided by the patient. Only one field is filled by the operator which is 'Dept_Id' which refers the patient to the relevant department. In this form one or more fields may or may not contain nil entries. Pat_ID is primary key.

ii. Patient Admission Form: -

In this form the record of those patient is maintained which are treated as indoor patients.

b) Patient Diagnosis Activities: -

This section is the core of the "patient Diagnosis System". This section maintains the record of those activities, which are involved in the diagnosis of disease of the patient.

i. Patient Temperature Form:

This form is specially used for recording of the patient's temperature.

ii. Patient Blood Pressure Form: -

This form is used for recording blood pressure of the patients.

iii. Lab Test Form: -

This form is used to maintain the record of patient's those tests which are done in the hospital's laboratory.

iv. Patient Check Up Form: -

This form is used for recording patient's check up like ECG, X-Ray etc, and related information.

v. **Disease Form: -**

In this form all the known diseases and their symptoms are recorded. It is to consult by the doctor during course of diagnosing the disease of a patient.

vi. **Disease Diagnosis Form: -**

This form is used by the doctor which diagnosing the disease of the patient.

vii. **Death Form: -**

This form is used to update if a patient dies during diagnosis or treatment.

c) **Patient Daig- Exp System: -**

This section deals the expenditures incurred by the diagnosis of the disease. It consists of the following forms.

a) **Lab Test Form: -**

b) **Check Up Form: -**

c) **Patient Used Medicine Form: -**

This form is used to maintain record of the medicines used by the patient during the disease diagnosing activities.

d) **Patient Ward Form: -**

This form is used to record information of the patient related to ward, if the patient is admitted.

e) **Patient Food Form: -**

This form is used to record food expenditure and related information of the indoor patient.

f) **Patient fee Form: -**

This form is used to receive fees from the patient. Fees amounts and related information are entered in this form.

5) Hospital Record updating system: -

This section is the database of the hospital when all the information related to the hospital is stored. This section consisting of many form which need updating during the course of time and could be easily updated.

General Reports: -

This section is meant for reports, which need to print in different times and in different circumstances. Some reports that will be printed often are prepared.

Discharge Form: -

When a patient is discharged then this form is used. It is bill form more than discharge form.

Patient general Information System: -

This System is specially meant for different quarries about the patients, Doctors diseases etc. This section consisting of many master detail forms. Each form is discussed in detail as under;

I. Patient Temp Form: -

This form is used to view the temperature of a patient recorded at different times.

II. Patient Bp Form: -

In this form the blood pressure of a patient checked at different times is viewed.

III. Patient Check Up: -

In this form the different checkups of a patient and their result are observed.

IV. Patient Ward: -

In this form it is observed that which patient is in which ward.

V. Patient Tests: -

In this form patient's different laboratory tests, their results and other related information are enquired.

– **VI. Patient Used Medicine: -**

In this form the different medicines used by a patient during the diagnosis of disease is observed.

VII. Doc Adm: -

In this form different patients admitted by doctor are observed.

VIII. Doc Daig: -

In this form different patients diseases diagnosed by a doctor are observed.

Unit 2

Proposed system

Unit 2

PROPOSED SYSTEM

2.1 Study Phase: -

We achieved the following from study phase.

- The problem is clearly defined and identified.
- The objectives of the proposed are defined.
- The recruitment of the system are analyzed and noted.
- Performed the feasibility study and selection of most feasible solution.
- Study of various other solutions and possibilities.

Following are the main requirements of the system.

2.1.1 Requirements of the proposed system: -

System must be capable of doing things in order to fulfill the Requirements of the proposed system. How it is possible to implement the system. It is designed on the bases Of the user's requirements and problems faced by him. How the system can be functional in itself and it is environment and should behave under certain conditions.

Another requirement indicates about the physical environment of human. Behavior and interface. According to the suggestion and requirements, development of software and selection of hardware discuss below. There are main functions of data and detail information. Inputting the data and detail information. Outputting of this information. The main program should manage all the processing and storage of this Information. Beyond the major functions the most important thing is that the program must keep control on input and output activities as well as storage along With the processing of information inside the memory. So, keeping in view. All these factors and problems, the selection of programming language or database package is. Therefore database tool should Selected as database system because it provides more features and control our huge data.

2.1.2 Objective of the proposed system: -

Having detailed study of the main objectives of the proposed system is following;

Easy input of data: -

In the present fast moving world where time is very important so the System should be designed in such a way that inputting of data and storage facilities must Be simple and easy to use.

Easy access and availability of information: -

System should have been designed in such a way that it could provide facilities for each and quick access for stored information.

Efficient update system: -

The new system provides efficient update facilities. Editing and changing in data should be possible.

Important checks and confirmations: -

In order to maintain correctness of data during the input process, the proposed system uses the no. Of validation and variety of warnings is given before processing of data.

Flexibility of the system: -

The proposed system has been made so easy that even those people who have limited knowledge of computer can use it. Simple letters and keys should have to be used wherever it is possible. It provides facilities the users for entering the data and saves the time and memory. Its also helps the user to identify the problems which may occur during the data entry process and information which was not return properly can be corrected.

2.2 Design Phase: -

The objectives of this phase are given below;

Design of the input and output data.

Development of the logic for the implementation of the objective identified by the Proposed system.

Designing of input and output files to the logic.

Documentation of logic.

2.3 Development Phase: -

The major considerations in this phase are as follows:
Development of computer program. We can test of complete system software.

2.4 Proposed System: -

After the detailed study of the objectives and requirements of project, a model is developed which can satisfied all the requirements and outputs. The outputs were finalized according to the objectives and necessary requirements.



Unit 3

System design phase

Unit 3

System Design Phase

This unit gives the detail of the system specification, flow of Information, processing and design of output files. In system designing phase there are no of steps involved. First of all involves of designing of impacts in form of screen displays, which the system required to produced. After that second step covers the out data and information which will be used by the screen, decided already according to the requirement. Finally, the program logic is designed which can hold all the inputs. In this phase while designing the program inputs available and output required are considered. So, all over this unit briefly described all the above steps.

When the form c:\orawin 95\Form45\Shayan-1\Main_System is opened And run, then one will enter into the main switchboard having 7 labeled buttons. The Last button labeled "Exit" is to close the system. The other six buttons represent six Sub-sections pressing a button open the relevant sections switchboard, in which one may select a button of one's choice, which on pressing opens the required form. In which one can enter data into the form or retrieve the already stored data.

The system design has the following the major parts.

- ❖ Input Design.
- ❖ Output Design.
- ❖ Program Logic.

3.1 Input Designing: -

The first step of the system design is to describe the input designing Required producing the proposed outputs. The computerized database system handles manually Prepared information (Patient Diagnosis) provides to the data entry operator who is responsible to the enter the correct data to the system.

If the operator does not give the correct data he should not expect the Reasonable output. An excellent data entry system must be designed to give a reasonable performance while designing the inputs following parameters would be helpful.

3.1.1 Code Designing: -

The code is a brief title, which is composed of combination of numeric number, which is used to identify data item of data. Code must be unique for each patient that is why in proposed computerized system there is an arrangement to allot a code number in automatic ways just to avoid the duplication of data, in code designing codes needed to be design carefully.

For example,

Description of patient ID

ID INT Size= 13

ID is an access key and all the processing takes place regarding this primary key.

3.1.2 Designing of input Screen: -

Input plays a very important role to provide relevant data.

For processing and producing required results. Perfect design inputs increase level of accuracy, the designing. Must carefully planned. Inputs help in providing necessary information for the accomplishment of objectives of the system. Therefore, inputs must be easy to understand and convenient to use.

While designing the inputs, the objectives are given below.

Screen is used for the purpose of data entry. The data is entered from the patient's registration slip.

Most common information that any person may require is entered.

- ◆ Only important information must be input and all the redundant fields should be removed.
- ◆ Length and size of each field is designed according to its importance.
- ◆ Expected space for each entry is provided.

3.2 Output Designing: -

The output requirement plays a vital role in the system designing therefore before designing the system all inputs must be clearly defined. The major

function of any system is to produce relevant and timely information when needed. The outputs of any system determine the efficiency and reliability. Outputs must be design in such a way that it must contain all types of Information, which are needed for the system.

These outputs can be placed into the following categories.

3.2.1 Reports: -

This software generates the different types of reports, which are given.

Patient description: -

The patient description describe the detail report about the patient's history through which computer can easily diagnose the disease.

Diagnosis of patient disease: -

Based on the patient's history the computer wills diagnosis the disease and its type in detail.

Medicine Description: -

Based on the diagnosis the computer will suggest the list of medicines along with its dose side effect and cautions.

Unit 4

Software Development and Implementation

Unit 4

Software Development and Implementation

Language Selection: -

Selection of a programming language is an important task while developing a system. But selection of a suitable programming language or package is very difficult because certain facilities provided by the different languages and packages. Selection of language also depends upon the problem nature. Keeping in mind the objectives of the proposed system. Oracle is preferred for developing patient diagnostic system. Oracle carries following advantages.

4.2 Software Development: -

The develop software is named as Patient Diagnosis System and provides the following five Main Modules.

- 1 Security Module
- 2 Insertion Module
- 3 Retrieval Module
- 4 Modification Module
- 5 Reports

4.2.1 Security Module: -

This Module is for security purpose. First of all the user will provide the user name & password. If any one of these two does not match with the actual user name and password the message will display at the top of the screen that is invalid user name or password.

4.2.2 Insertion Module: -

Data entry in data tables means writing records at the end of Files due to special design code no, it is possible to insert record all regards at any time Position in the data table. Whenever it is necessary to insert new record into the file it is possible that the current data should automatically be located at its place.

4.2.3 Retrieval Module: -

In this module by using the main menu any person may get any information about the patient, staff, medicines & related hospital inquiry within no time.

4.2.4 Modification Module: -

In this module we can modify any existing record in the patient's record or treatment record by specifying the patient's revised history, as well as all the records of doctors, patients may be modified accordingly.

4.2.5 Reports: -

When we modify the records all the reports will automatically be modified. If we want to take the printed shape of patient's diagnosis reports, we can get it within no time. The system has facility that all patient's diagnosis system reports may be provided in required shape.

Technologies and Software Used: -

- ❖ Oracle 7.3
- ❖ Developer 2000

Unit 5

Physical Database Design

Unit 5

Physical Database Design

Database Structure: -

The data base files that were designed mainly consist of the forms and applications, which are being used in the hospital. These files were designed by recommendation of the computer. These requirements were given main priority.

Here is the structure description of some database files.

DOCTORS: -

Field	Field Name	Type	Width	Description
1	Doc_id	Number	30	Doctor's identification
2	Name	Char	30	Name of concern doctor
3	Sex	Char	255	Male or female
4	BPS	Number	3	Grade of doctor
5	Dept_id	Number	255	Identification of department
6	SP_id	Char	30	Specialization categories
7	Design	Char	30	Designation of doctor's

SPECIALIZATION: -

Field	Field Name	Type	Width	Description
1	SP_ID	Number	255	Specialization, Identification
2	Name	Character	50	Specialized Doctor Name

DEATHS: -

Field	Field Name	Type	Width	Description
1	Pat_ID	Number	255	Patient Identification
2	Resp Doc_ID	Char	50	Doctor's Receipt
3	Death Causes	Char	50	Cause Of Death
4	Death Date	Date	10	Date of Death
5	Death Time	Time	10	Time Of Death



ADMISSION: -

Field	Field Name	Type	Width	Description
1	SNO	Number	255	Serial number
2	Pat_ID	Number	255	Patient's Identification
3	Doc_ID	Number	255	Doctor's Identification
4	Adm Date	Char	Date	Admission Date
5	Ward_ID	Number	255	Ward Identification
6	Bed No	Char	255	No. Of Bed
7	Adm_Time	Time	255	Time Of Admission

DIAGNOSIS: -

Field	Field Name	Type	Width	Description
1	S.No	Char	255	
2	Pat_ID	Number	255	Patient's Identification
3	Doc_ID	Number	255	Doctor's Identification
4	Type-ID	Number	255	Identification Type
5	Diagnosed Diseased_ID	Number	255	Identification of Diseased Diagnosis
6	Remarks	Char	50	Remarks of Doctor
7	Receipt	Char	50	Receipt Of Medicine
8	Next Visit Date	Date	Date	Next Visit Date
9	Date	Date	Date	Date
10	Referred To	Char	30	Doctor's Reference

PATIENT: -

Field	Field Name	Type	Width	Description
1	Pat_ID	Number	255	Patient's Identification
2	Name	Char	30	Patient's Name
3	F_Name	Char	30	Name Of
4	Sex	Char	255	Patient's Sex
5	Dob	Number	10	
6	Arrival Date	Date	Date	Date of Arrival
7	Age	Number	3	Age Of Patient
8	Arrival Time	Time	Time	Time of arrival in Hospital
9	Problem	Char	50	Problem to Patient
10	Dept_Id	Number	255	Identification Of Department
11	Address	Char	50	Address Of Patient

HOSPITAL DEPT'S: -

Field	Field Name	Type	Width	Description
1	Dept_Id	Number	255	Identification OF Department
2	Description	Char	50	Detail of Hospital Departments

DOOR TYPE: -

Field	Field Name	Type	Width	Description
1	Type_Id	Number	255	Identification OF Type
2	Description	Char	50	Indoor or Outdoor Patient

DISEASE: -

Field	Field Name	Type	Width	Description
1	Diseased_ID	Number	255	Identification OF Disease
2	Description	Char	50	Related Disease
3	Symptoms	Char	100	Symptoms of Patient Disease

TEMPERATURE: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	
2	Pat_ID	Number	255	Identification Of Patient
3	Type_Id	Number	255	Identification Of Type
4	Temperature	Char	3	Temperature Of Patient
5	Date	Date	Date	Date of temperature Recorded
6	Time	Time	Time	Time of temperature recorded

BLOOD PRESSURE: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	Serial No.
2	Pat_ID	Number	255	Identification Of Patient
3	Type_Id	Number	255	Identification Of Type
4	Temperature	Char	3	Temperature Recorded
5	Date	Date	Date	Date of Blood Pressure recorded
6	Time	Time	Time	Time of Blood Pressure recorded

BILL: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	Serial No.
2	Pat_ID	Number	255	Identification Of Patient
3	Type_Id	Number	255	Identification Of Type
4	Test Charges	Char	255	Charges Of Test
5	Check Up Charges	Char	255	Check Up Charges
6	Fee	Char	255	Hospital Fee
7	Medical Charges	Char	255	Medical Charges
8	Ward Charges	Char	255	Ward Charges
9	Food Charges	Char	255	Food Charges
10	Total Admission	Char	255	Total Admission

PATIENT TEST: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	Serial Number
2	Pat_ID	Number	255	Identification Of Patient
3	Type_Id	Number	255	Identification Of Type
4	Test_Id	Number	255	Identification Of Test
5	Test Result	Char	255	Test Result
6	Test Charges	Char	255	Test Charges
7	Test Staff_Id	Number	255	Identification Of Test Staff
8	Test Date	Date	Date	Test Date

LAB STAFF: -

Field	Field Name	Type	Width	Description
1	Staff_Id	Number	255	Identification OF Staff
2	Name	Char	Name	Name
3	Sex	Char	50	Sex
4	BPS	Char		Basic Pay Scale
5	Designation	Char		Designation Of Lab Staff

LAB TEST HEADS: -

Field	Field Name	Type	Width	Description
1	Test_Id	Number	255	Identification OF Test
2	Name	Char	50	Name
3	Charges	Number	255	Number

PATIENT CHECK UP: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	
2	Pat_ID	Number	255	Identification Of Patient
3	Type_Id	Number	255	Number
4	Check Up_ID	Number	255	Identification Of Check Up
5	Check Up Result	Character	250	Check Up Result
6	Check Up Charges	Number	255	Check Up Charges
7	Check Up Staff_Id	Number	255	Identification Of Check UP Staff
8	Check Up Date	Date	Date	Check Up Date

CHECK UP HEADS: -

Field	Field Name	Type	Width	Description
1	Check Up_ID	Number	255	Identification Of Check Up
2	Name	Char	50	Name
3	Charges	Number	255	Charges

CHECK UP STAFF: -

Field	Field Name	Type	Width	Description
1	Staff_Id	Number	255	Identification Of Staff
2	Name	Number	255	Name
3	Dept_Id	Number	255	Identification Of Department
4	Name	Char	255	Name
5	Sex	Char	255	Sex
6	BPS	Number	2	Basic Pay Scale
7	Design	Char	30	Designation

MEDICINES: -

Field	Field Name	Type	Width	Description
1	Med-ID	Number	255	Medicines
2	Name	Char	30	Name Of Medicine
3	Company	Char	30	Manufacturer company
4	U_price	Number	255	Price of Medicines

PATIENT USED MEDICINE: -

Field	Field Name	Type	Width	Description
1	SNo	Number	255	Serial number
2	Pat_ID	Number	255	Patient identification
3	Type_Id	Number	255	Type of medicine
4	Med_ID	Number	255	Medicine identification
5	U_price	Number	255	Price of medicine
6	Qty	Number	255	Quantity
7	Tot price	Number	255	Total price of medicine
8	Date	Date	Date	Date of medicine used
9	Staff_Id	Number	255	Identification of staff

Wards: -

Field	Field Name	Type	Width	Description
1	Ward_ID	Number	255	Ward identification
2	Name	Char	30	Patient name
3	No. Of Bed	Number	255	Bed number
4	Charges Per Day	Number	255	Charge of wards

PATIENT BED: -

Field	Field Name	Type	Width	Description
1	Pat_ID	Number	255	Patient identification
2	Ward_ID	Number	30	Ward identification
3	Bed no	Number	255	Bed number

PATIENT WARD: -

Field	Field Name	Type	Width	Description
1	SND	Number	255	Patient identification
2	Pat_ID	Number	255	Identification Of Patient
3	Ward_ID	Number	255	Identification Of Ward
4	Bed_No	Number	255	No. Of Bed
5	Adm_Date	Number	255	Date Of Admission
6	No. Of Days	Number	255	No. Of Days
7	Che_Paid	Number	255	Check Paid
8	Ward_Charges	Number	255	Ward Charges
9	Date	Char	Date	Date Of Admission
10	BPS	Number	2	Basic Pay Scale
11	Staff_Id	Number	255	Identification Of Staff

PATIENT FOOD: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	Serial No.
2	Pat_ID	Number	255	Identification Of Patient
3	Adm_Date	Date	Date	Date Of Admission
4	No. Of Days	Number	255	Number Of Days
5	Char_PD	Number	255	Charges Per Day
6	TOT_Char	Number	255	Total Charges
7	Date	Date	Date	Date Of Food given
8	Staff_Id	Number	255	Identification Of Staff

DAYS: -

Field	Field Name	Type	Width	Description
1	Day_Id	Number	255	Identification Of Day
2	Desc	Char	50	Description

PATIENT FEE: -

Field	Field Name	Type	Width	Description
1	S.No	Number	255	Serial No.
2	Pat_ID	Number	255	Identification Of Patient
3	Type_Id	Number	255	Identification Of Type
4	Fee_Id	Number	255	Identification Of Fee Paid
5	Fee_Amt	Number	255	Amount Of Fee
6	Date	Date	Date	Date of fee deposited
7	Staff_Id	Number	255	Identification Of Staff

FEE HEADS: -

Field	Field Name	Type	Width	Description
1	Fee_Id	Number	255	Identification Of Fee Paid
2	Name	Char	50	Name
3	Amt	Number	255	Amount Of Fee

MEDICINE STAFF: -

Field	Field Name	Type	Width	Description
1	Staff_Id	Number	255	Identification Of Staff
2	Name	Char	30	Name Of Staff
3	Sex	Char	255	Sex of Medicine Staff
4	BPS	Number	2	Basic Pay Scale
5	Design	Char	30	Designation

ACCOUNT STAFF: -

Field	Field Name	Type	Width	Description
1	Staff_Id	Number	255	Identification Of Staff
2	Name	Char	30	Name
3	Sex	Char	255	Sex
4	BPS	Number	2	Basic Pay Scale
5	Design	Char	30	Designation

unit 6

Conclusion

Unit 6

Conclusion

A computerized data system has been developed. The system provides efficient way of data storage and several retrieval methods, through specific field description.

6.1 Feeding: -

During the storage of information different validation checks and signals Against these checks are provided on the data before a final entry.

6.2 System Evaluation: -

An evaluation of a newly developed computerized system is necessary to judge weathers the objectives setout for the system have been achieved or Ont. system is reviewed and evaluated with respect to completion, correctness and consistency. The new computerized system has a number of advantages over the old one. Some are given below.

Efficiency: -

The new system is efficient and suitable for easy for retrieval within a short Time. This database responds the quickly and accurately. The reason for this quick approach directly to their required record is due to the usage of a standard query language. While in old system data remains in register and files whereas retrieval of information takes a long period of time. While the new system has been designed in such a manner that even a layman does not face any problem during the data information, retrieval and modification and formation of reports.

Correctness: -

The result produced by the new system is accurate which is made possible by providing validation checks all the data entry fields. Thus the system assures the results that are outputs are correct.

Reliability: -

The proposed system is more reliable and efficient than the old one's. In this system the data can be copied for backup and kept in another place and thus the risk of losing and damaging of data is reduced.

Consistency: -

Duplicate information and details create many problems as is done in the manual system. But in the proposed system different validation routines are provided which update the files at different times. So, consistency is achieved to some extent, by providing automatic generation of code numbers.

Minimum Redundancy: -

There is a minimum redundancy in the new developed system. The data files are designed in such a way that minimum data is duplicated. This process is very important that helps the system to work in a better way and saves storage space and time of processing.

Easy Modification: -

Operation of a new computerized system becomes simple and its modification becomes easy. This is because of the flexibility provided by the system which makes it convenient in daily use. The system is designed in such a way that it could provide the user with the facility of modification or change of data. Whenever required, a change in record number (ID No.) can't be done.

Screen Designing and Operation: -

The input screen and operation of the system are so easy and simple that even a person with no background of computers can also understand these operations without any difficulty.

Unit 1

Batch man tables

BATCH MAN TABLES

DOCTOR: -

Doc_I	Nam	Se	BP	Dept_I	SP_I	Desig
D	e	x	S	D	D	

↓
A

↓
B

SPECIALIZATION: -

SP_I	NAM
D	E

↓
B

DEATHS: -

S.No	Pat_I	Disease-Id	Death	Death
	D		Date	Time

↓
C

ADMISSION: -

S.No	Pat_I	Type_I	Doc_I	Adm	Ward_I	Bed_N	Adm_T
	D	d	D	Date	D	o	e

↓
C

↓
A

DIAGNOSIS: -

S.No	Pat_I	Doc_I	Type_I	Diseased_I	Receip	Date	Reffere_I
	D	D	d	D	t		d

↓
C

↓
A

↓
M

BATCH MAN TABLES

PATIENT: -

Pat_I D	Nam e	F_Nam e	Se x	DOB	Arr_Date	Age	Arrival Time	Proble m	Dept_I d	Ac ss
↓										
Ⓢ										

HOSPITAL DEPT'S: -

Dept Id	Name
↓	
Ⓢ	

DOOR TYPE: -

Type_I D	Descriptio n
↓	
Ⓢ	

DISEASE: -

Diseased_I D	Name	Symptom s
↓		
Ⓢ		

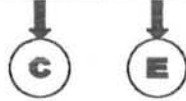
TEMPERATURE: -

S.No	Pat_I D	Type_I d	Tem p	Dat e	Tim e
	↓	↓			
	Ⓢ	Ⓢ			

BATCH MAN TABLES

BLOOD PRESSURE: -

S.No	Pat_I D	Type_Id	Bp	Date	Time
------	------------	---------	----	------	------



DISCHARGE BILL: -

S.No	Pat_ID	Type_Id	Staff_Id	Test Charges	Checks Up Charges	Fee Amt	Med Charges	Ward Charges	FD Admission	Staff_Id	I
------	--------	---------	----------	--------------	-------------------	---------	-------------	--------------	--------------	----------	---



PATIENT TEST: -

S.N o	Pat_I D	Type_I d	Test_I d	Test Result	Test Charges	Test Staff ID	Test Date
----------	------------	-------------	-------------	-------------	--------------	---------------	-----------



LAB STAFF: -

Staff_I D	Name	Sex	BPS	Desig
--------------	------	-----	-----	-------



LAB TEST HEADS: -

Test_I D	Nam e	Charge s
-------------	----------	-------------



BATCH MAN TABLES

PATIENT CHECK UP: -

S.No	Pat_ID	Type_ID	Check Up_ID	Check Up Result	Check Up Charges	Check Up Staff_ID	Check Up Date	Staff_ID
		↓	↓	↓			↓	
		(C)	(E)	(L)			(J)	

CHECK UP HEADS: -

Check Up_ID	Name	Charges
↓		
(L)		

CHECK UP STAFF: -

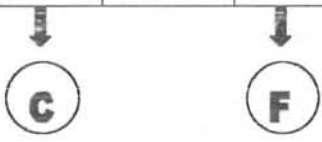
Staff_ID	Dept_ID	Name	Sex	BPS	Designation
↓					
(J)					

MEDICINES: -

Med_ID	Name	Company	Unit Price
↓			
(F)			

PATIENT USED MEDICINES: -

S.No	Pat_I D	Type_I d	Med_I D	Unit Price	QT Y	Total Price	Staff_I d
------	------------	-------------	------------	---------------	---------	----------------	--------------



BATCH MAN TABLES

WARDS: -

Ward_ID	Name	No. Of Bed	Charges Per Day
---------	------	------------	-----------------

↓

(G)

PATIENT BED: -

Pat_ID	Ward_ID	Bed No.
--------	---------	---------

↓

(G)

PATIENT WARD: -

SNO	Pat_ID	Ward_ID	Bed No	Adm_date	No. Of Day	Cha_p d	Ward Charges	Date	BS	S
-----	--------	---------	--------	----------	------------	------------	-----------------	------	----	---

↓

(C)

PATIENT FOOD: -

Food_ID	Desc	Day_ID	Charges Per Day
---------	------	--------	-----------------

↓ ↓

(I) (H)

DAYS: -

Day_Id	Desc
--------	------

↓

(H)

BATCH MAN TABLES

PATIENT FOOD: -

S.No	Pat ID	Adm Date	No. Of Days	Charges_PD	Tot Charges	Date	Staff Id
	↓ C	↓ /					

PATIENT FEE: -

S.No	Pat ID	Type_Id	Fee_Id	Date	Staff_Id
	↓ C		↓ E		

FEE HEADS: -

Fee_Id	Desc	Amount
--------	------	--------

MEDICINE STAFF: -

Staff ID	Name	Sex	BPS	Design
↓ J				

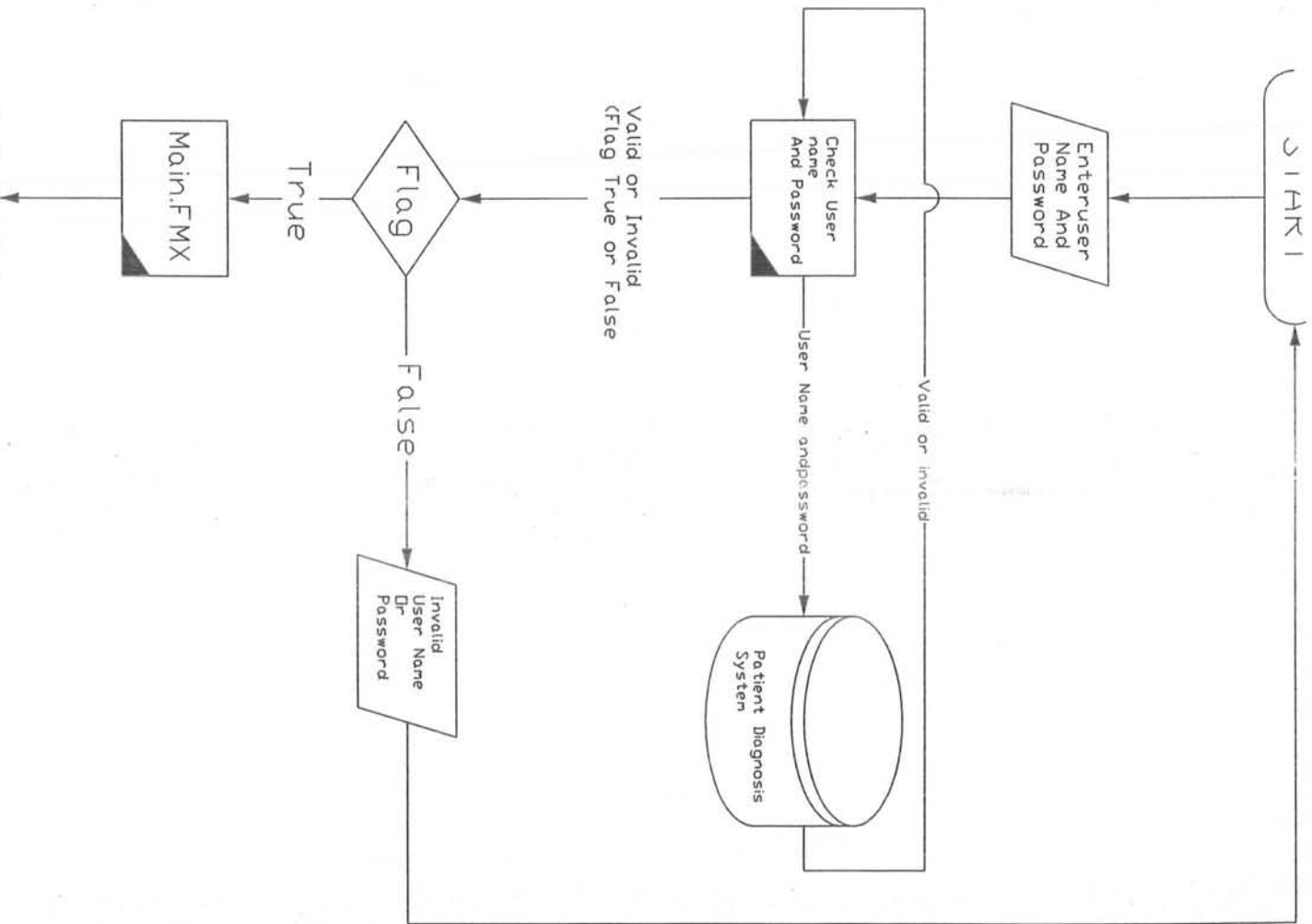
ACCOUNT STAFF: -

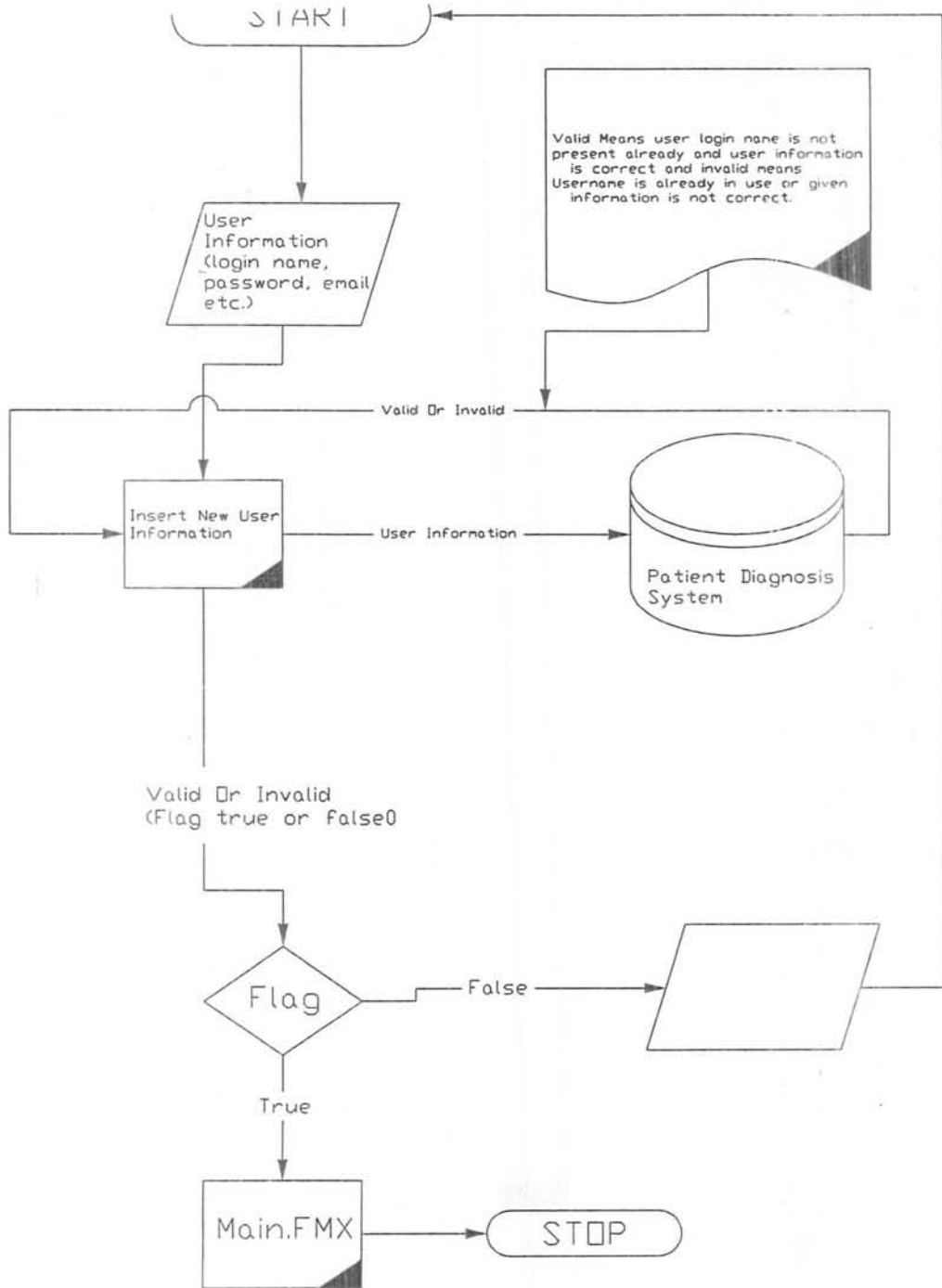
Staff ID	Name	Sex	BPS	Design
↓ J				

Unit 8

System flowcharts

login



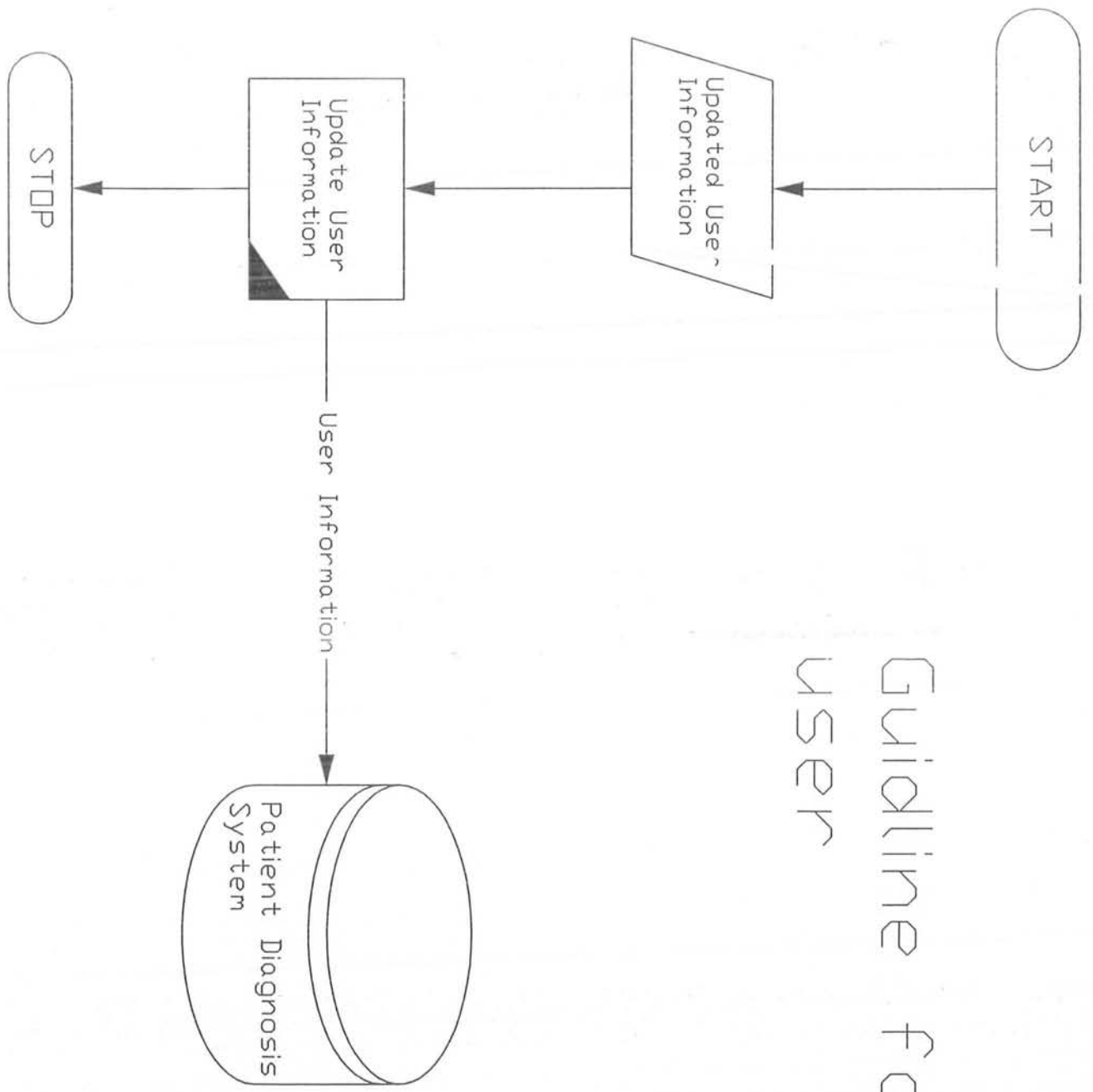


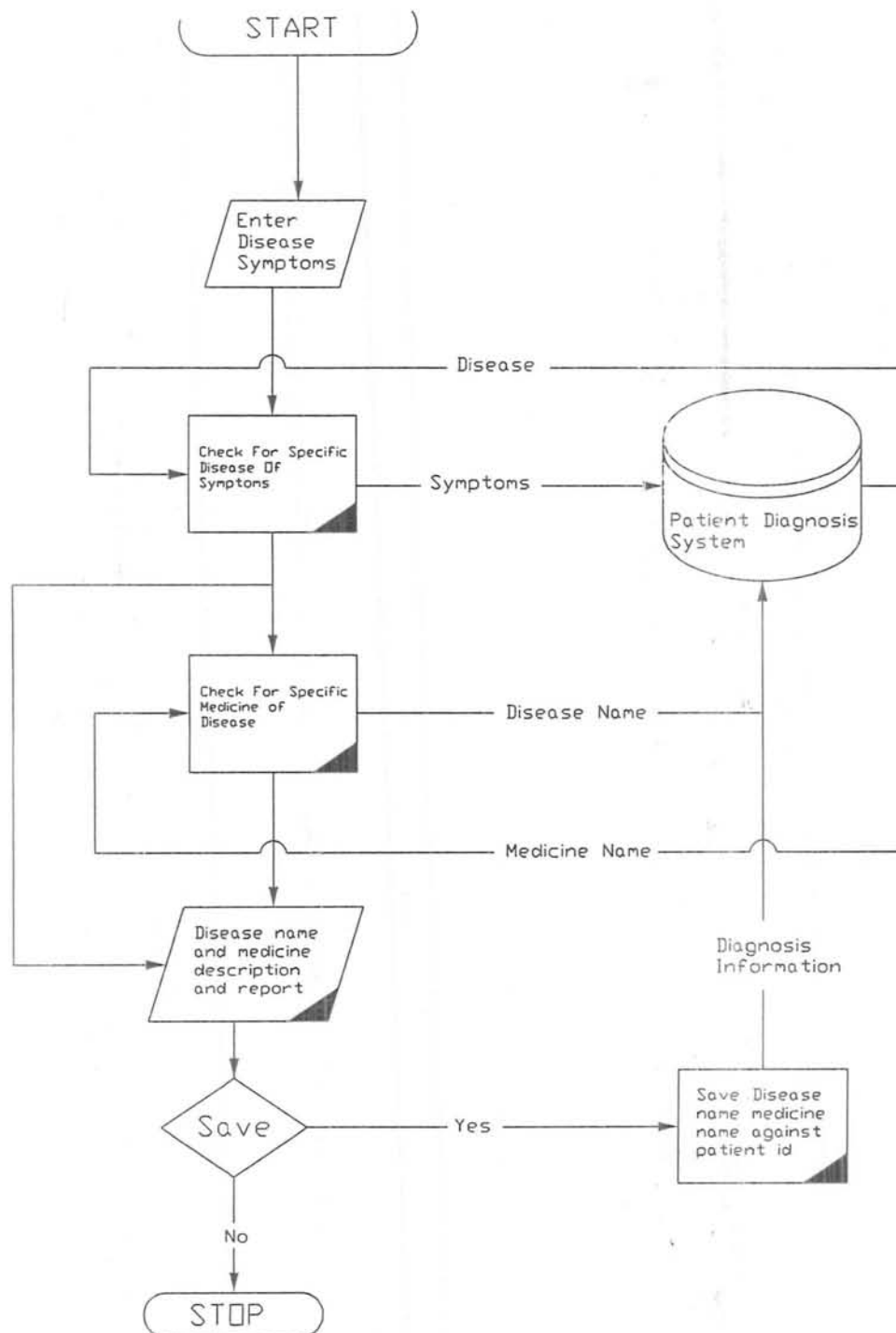
Valid Means user login name is not present already and user information is correct and invalid means Username is already in use or given information is not correct.



User Information

Guideline for user





disease diagnostic

Unit 9

Forms

SWITCHBOARD

Main

This form is used as a main switchboard for patients entry and discharge system all the others sub switchboard are attached with this switchboard.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

WELCOME TO PATIENTS DIAGNOSIS SYSTEM

PAKISTAN INSTITUTE OF MEDICAL SCIENCES ISLAMABAD

PATIENT ENTRY-DISCHARGE SYSTEM

PATIENT DISEASE-DIAGNOSIS ACTIVITIES

PATIENT DIAGNOSIS-EXPENDITURE SYSTEM

PATIENT GENERAL INFORMATION SYSTEM

HOSPITAL RECORD UPDATION SYSTEM

GENERAL REPORTS

EXIT

Count: 0

Start | Developer/2000 Form... | 10:46 AM

INPUT FORM



This form is used for inputting the initial record of the patients all the information related to patients is being present here.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

PATIENTS

Pat Id	10	Name	ABDULLA SHAH
F Name	AHMAD SHAH	Sex	M
Arr Date	29-JUL-03	Age	33
Arr Time	11:57:24	Problem	HEAD ACK
Dept Id	12	Distt	ISLAMABAD
Teh	ISLAMABAD	city	ISLAMABAD
P O	SITARA MARKET	Sector	G-7/2
St No	12	H No	6

Ph 2872172

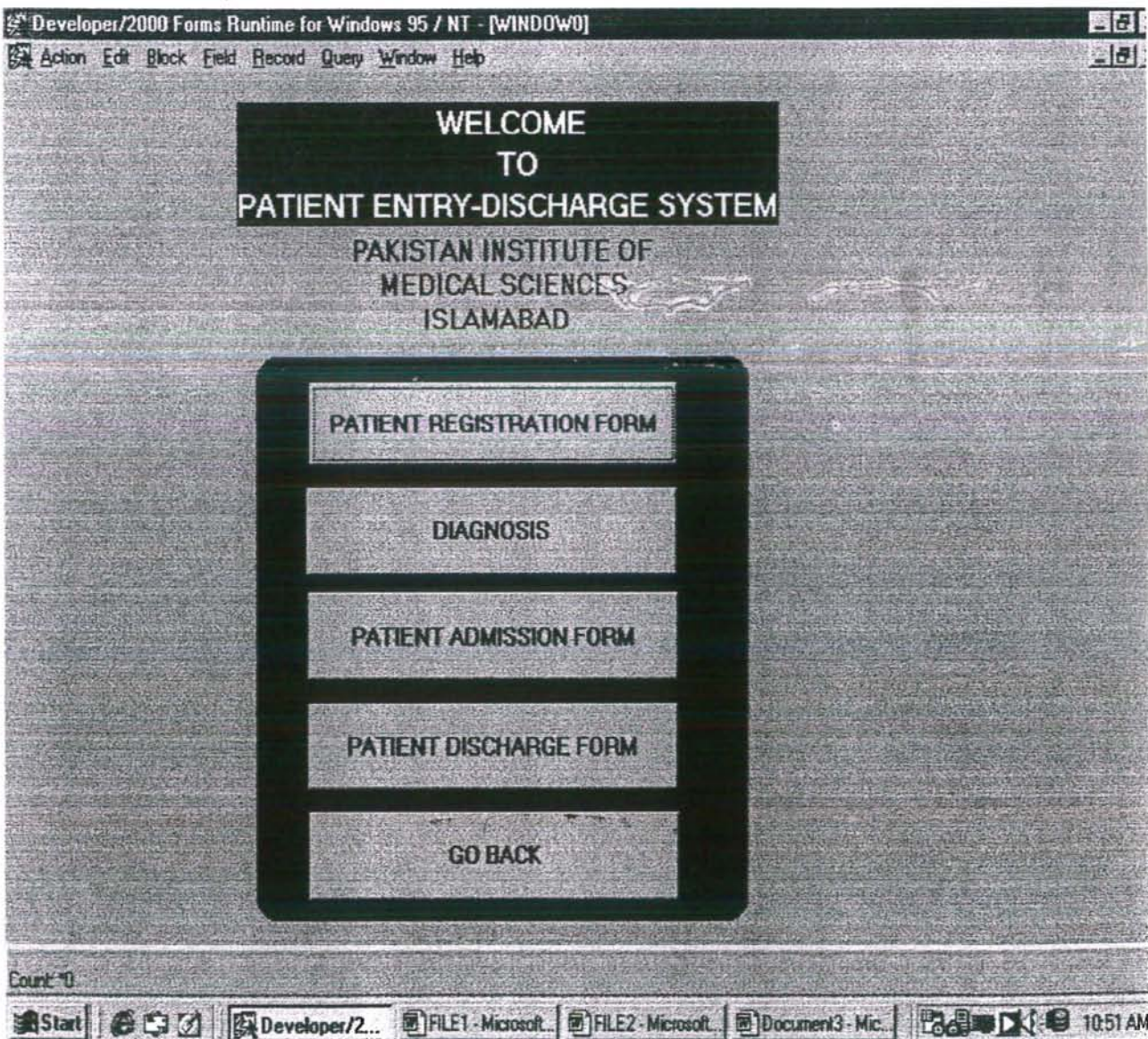
<< < > >> Query Save GO BACK

Start Developer/2000 Form... FILE1 - Microsoft Word 10:50 AM

SWITCHBOARD



This form is used as a main switchboard for patient entry and discharge system.



INPUT FORM

Diagnosis

This form is used for inputting the record of the patients while diagnosis their disease.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

DIAGNOSIS

Sno	Pat Id	Doc Id	Type Id	Disease Id	Recipe	Datte	Refer Id
1	10	10	1	12	TAB PONSTAN (10) SY	15-AUG-03	1
2	11	13	1	10	CAP VALOSIF (10)	15-AUG-03	1
3	12	19	1	11	CAP VIBRAMICINE SY	15-AUG-03	1
4	13	18	1	10	TAB SEPTRAN DS SY	15-AUG-03	1
5	14	13	2	11	INJ LINCOICINE TAB A	15-AUG-03	1

DISEASES GEN_REC << < > >> Query Save GO BACK

Count: 5 v

Start | Developer/2000 Form... | Document4 - Microsoft Word | 10:53 AM

INPUT FORM

Admission

This form is used for inputting the record of the patients who are being admitted in the hospital.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

ADMISSION M

Sno	Pat Id	Pat Name	Doc Id	Type Id	Adm Date	Adm Time	Ward Id	Bed No
1	10	ABDULLA SHA	10	1	19-AUG-03	12:35:52	10	1
2	11	GUL KHAN	11	1	19-AUG-03	12:36:13	10	2
3	12	MOHAMMAD S	11	1	19-AUG-03	12:36:36	10	3
4	13	ASIF SHAH	13	1	19-AUG-03	12:37:01	11	1
5	14	MUHAMMAD J	15	1	19-AUG-03	12:37:45	11	2

BED << < > >> Query Save GO BACK

Count: 5

Start Developer/2000 Form... Document5 - Microsoft Word 10:54 AM

INPUT FORM

Discharge

This form is used for inputting the record of the patients who are being discharge from the hospital.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

DISCHARGE

Sno	1	Pat Id	10
Type Id	1	Staff Id	10
Test Charges	460	Chp Charges	1900
Fee Amt	25	Med Charges	206
Wr'd Charges	20	Fd Charges	60
Tot Amt	2751	Adm Date	19-AUG-03
Dis Date	19-AUG-03	Datte	19-AUG-03

<< < > >> Query Save GO BACK

Count: 1

Start | Developer/2000 Form... | Document6 - Microsoft Word | 10:54 AM

SWITCHBOARD

admitted patient record

This form is used as a main switchboard for the record of patients who are admitted in hospital all the record like temp.bp etc are being attached to this form.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

WELCOME
TO
PATIENTS DISEASE DIAGNOSIS ACTIVITIES

PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

TEMPERATURE FORM

BLOOD PRESSURE FORM

LABORATORY TEST FORM

CHECKUP FORM

DISEASES AND SYMPTOMS

DEATHS

GO BACK

Count: 10

Start Developer/2000 Form... Document7 - Microsoft Word 10:55 AM

SWITCHBOARD

Diagnosis and expenditure

This form is used as a main switchboard for the record of patients who are admitted in hospital all the record like labtest,checkupforms and all the fees are being attached to this form.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

WELCOME
TO
PATIENT DIAGNOSIS-EXPENDITURE SYSTEM

PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

LABORATORY TEST FORM

CHECKUP FORM

MEDICINES FORM

WARDS FORM

FOOD FORM

FEES FORM

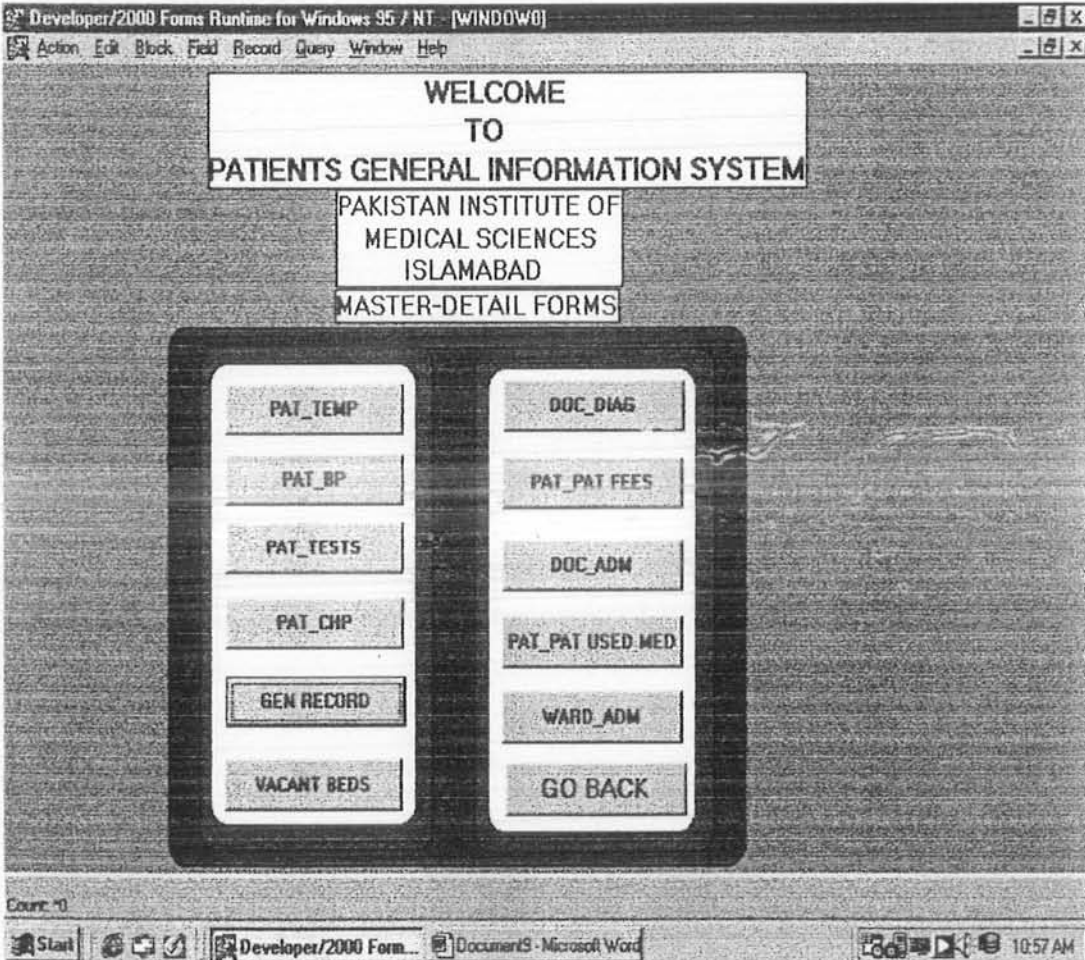
GO BACK

Start [Taskbar Icons] Developer/2000 Form... Document8 - Microsoft Word [System Tray] 10:56 AM

SWITCHBOARD



This form is used as a main switchboard for the general record of patients who are admitted in hospital.



SWITCHBOARD

General Information System

This form is used as a main switchboard for the general record of patients who are admitted in hospital.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

**WELCOME
TO
PATIENTS GENERAL INFORMATION SYSTEM**

PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

MASTER-DETAIL FORMS

PAT_TEMP	DOC_DIAG
PAT_BP	PAT_PAT FEES
PAT_TESTS	DOC_ADM
PAT_CHP	PAT_PAT USED MED
GEN RECORD	WARD_ADM
VACANT BEDS	GO BACK

Count: 10

Start [Taskbar Icons] Developer/2000 Form... Document9 - Microsoft Word [System Tray] 10:57 AM

SWITCHBOARD

Record updation

This form is used as a main switchboard for the updation of record of the hospital all the information of the hospital is updated through this switchboard.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

WELCOME
TO
HOSPITAL RECORD UPDATION SYSTEM

MASTER FORMS

WARDING DEPARTMENT OF
MEDICAL SCIENCES
DELAYAD

HOSPITAL_DEPTS SPECIALIZATION DOOR_TYPE

DOCTORS DISEASES LAB_STAFF

LAB_TEST_HEADS CHECKUP_STAFF CHECKUP_HEADS

MEDICINES WARDS MEDICINE_STAFF

ACCOUNT_STAFF BEDS FEES_HEADS

GO BACK

Count: 0

Start Developer/2000 Form... Document10 - Microsoft W... 10:59 AM

SWITCHBOARD

General reports

This form is used as a main switchboard for the general reports for printing purpose.

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

GENERAL REPORTS

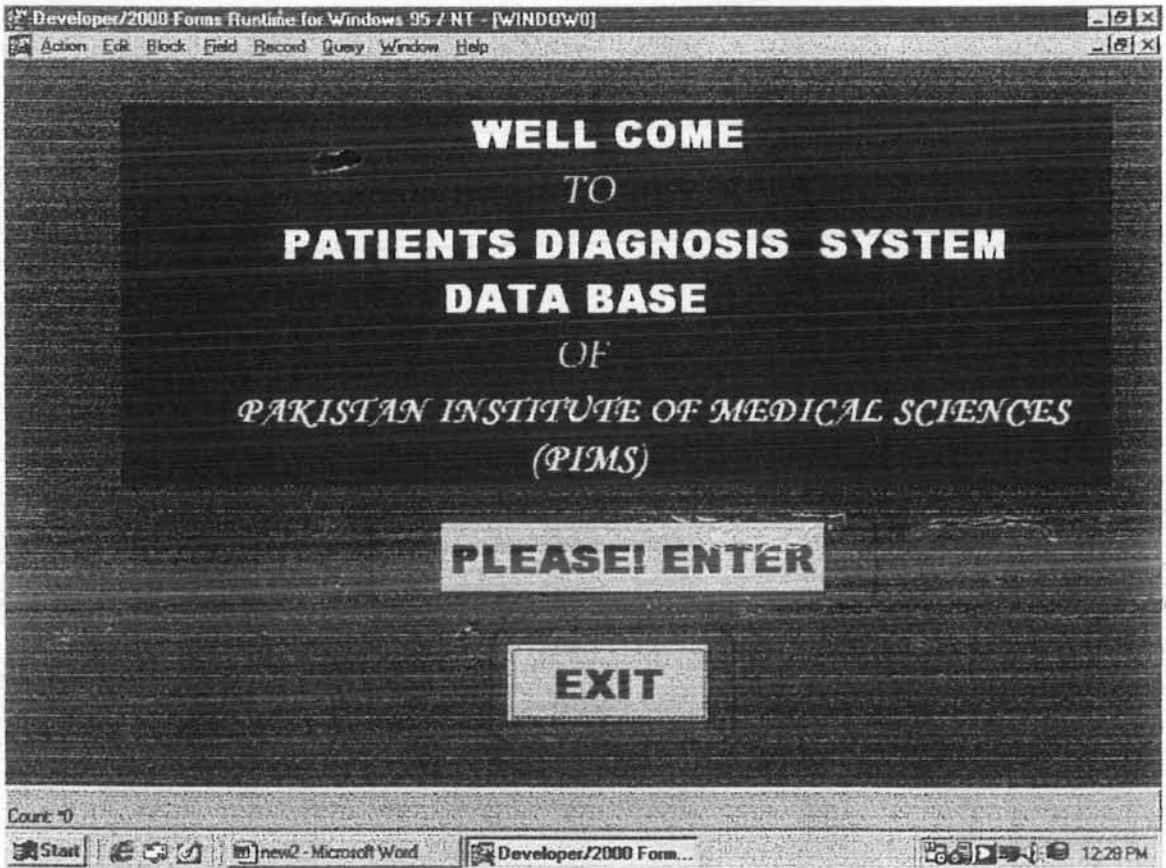
PAKISTAN INSTITUTE OF
MEDICAL SCIENCES
ISLAMABAD

DEPARTMENTS	DOCTORS
TESTS HEADS	DEATHS
CHECKUP HEADS	WARDS
MEDICINES	PATIENTS
RECIPE	BILL
DISEASES	GO BACK

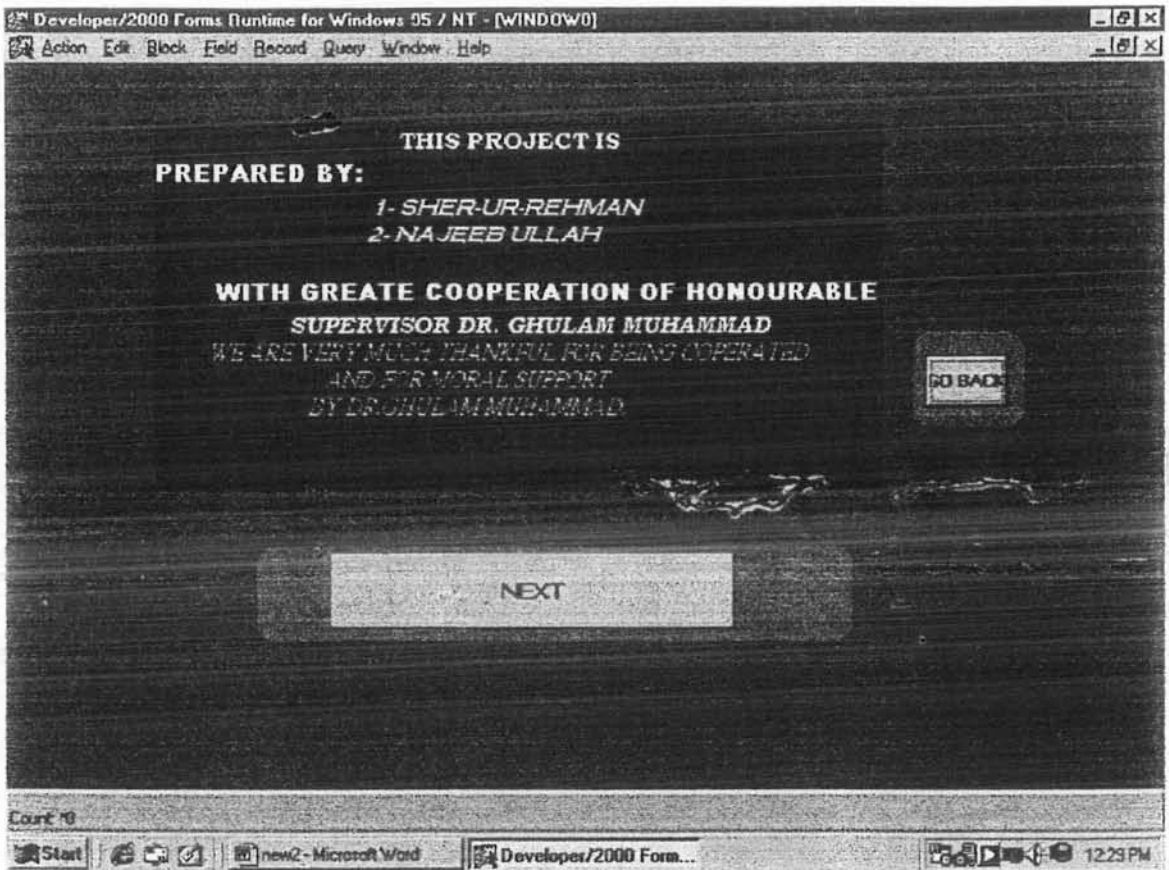
Count: 0

Start [Taskbar icons] Developer/2000 Form... Document11 - Microsoft W... 10:59 AM

WELL COME



ENTRANCE



REPORTS

Developer/2000 Forms Runtime for Windows 95/NT - (D:\NDI\DWJ)

bill Previewer

File Edit Window Help

Prev Next First Last Page: Print Mail Close New

PATIENT'S BILL

Pat Id	Name	Tot Amt	Date
10	ABDULLA SHAH	2751	19-AUG-03
11	GUL KHAN	1519	19-AUG-03
12	MUHAMMAD SUBBHA	2395	20-AUG-03
13	ASIF SHAH	6559	20-AUG-03
14	MUHAMMAD JAMAL	1387	20-AUG-03
15	ZAHIR SHAH	15270	20-AUG-03
16	SHAGUFTA BEGUM	1645	20-AUG-03
17	ADIL HARJAN	372	20-AUG-03
18	SHABNUM	2135	20-AUG-03
19	ALLAH BAKHSH	1655	20-AUG-03
20	WALI SARDAR	16645	20-AUG-03
21	SHAHBAZ KHAN	5529	21-SEP-03
22	ASLAM	30	01-SEP-03
23	ALI	1535	01-SEP-03
24	NAWAZ KHAN	0	01-SEP-03
25	GUL JANA	120	01-SEP-03
26	GUL MEERA	180	02-SEP-03
30	ZULFIQAR	0	03-SEP-03
31	ISLAM SAIED	0	03-SEP-03

Working...
Count: 0

Start | new2 - Microsoft | Developer/2000 | Reports Server | bill Previewer | 12:30 PM

REPORTS

Developer/2000 Fama [Runtime for Windows: 05 / NT - [WINDOW#]]

Recipe: Previewer

File Edit Window Help

Prev Next First Last Page: 1 Print Mail Close New

PATIENTS'S RECIPE

Pat Id	Name	Recipe	Date
10	ABDULLA SHAH	TAB PONSTAN (10) SYP HYDERALINE	15-AUG-03
13	ASIF SHAH	TAB SEPTRAN DS SYP CALPOL	15-AUG-03
14	MUHAMMAD JAMAL	INJ LINCOCINE TAB ACTIFED	15-AUG-03
15	ZAHIR SHAH	CAP WYNOX (10) SYP BENADRIL	15-AUG-03
17	ADIL HARJAN	TAB MACOTRIM SYP MOSIGAR	15-AUG-03
20	WALI SARDAR	TAB AUGHINTINE SYP HYDRALINE	15-AUG-03
21	SHAHBAZ KHAN	TAB PANGLOB SYP DEJIPILEX	15-AUG-03
23	ALI	INJ LINCOCINE (6) TAB ASTHOFILINE	20-AUG-03
24	NAWAZ KHAN	IDEX TAB PARACETAMOL	20-AUG-03
25	GUL JANA	BETNOVIT TAB PONSTAN	22-AUG-03
26	GUL JANA	CAP WYNOX (6)	01-SEP-03

Working... Count: 0

Start new2 - Microsoft Developer/2000 Reports Server Recipe: Previ... 12:31 PM

REPORTS

Developer/2000 Form Runtime for Windows 95 / NT - [WINDOW0]

Recipe Previewer

File Edit Window Help

Prev Next First Last Page: Print Mail Close New

PATIENTS RECIPES

Pat Id	Name	Recipe	Datte
10	ABDULLA SHAH	TAB PONSTAN (10) SYP HYDERALINE	15-AUG-03
13	ASIF SHAH	TAB SEPTRAN DS SYP CALPOL	15-AUG-03
14	MUHAMMAD JAHAL	INJ LINCOCINE TAB ACTIFED	15-AUG-03
15	ZAHIR SHAH	CAP WYMOX (10) SYP BENADRIL	15-AUG-03
17	ADIL MARJAN	TAB N-COTRIM SYP MOSIGAR	15-AUG-03
20	WALI SARDAR	TAB AUGHINTINE SYP HYDRALINE	15-AUG-03
21	SHAHBAZ KHAN	TAB PANGLOB SYP DEJIPLEX	15-AUG-03
23	ALI	INJ LINCOCINE (6) TAB ASTHOFILINE	20-AUG-03
24	NAVAZ KHAN	IDEX TAB PARACETAMOL	20-AUG-03
25	GUL JANA	BETNOVIT TAB PONSTAN	22-AUG-03
26	GUL NAFISA	CAP WYMOX (6)	01-SEP-03

Working...
Count: 0

Start new2 - Microsoft ... Developer/2000 ... Reports Server Recipe: Previ... 12:31 PM

REPORTS

Developer/2000 Forms Runtime for Windows: 95 / NT - [WINDOW]

PATIENTS: Previewer

File Edit Window Help

Prev Next First Last Page 1 Print Mail Close New

PATIENTS RECORD

Pat Id	Name	F Name	Dob	City
10	ABDULLA SHAH	AHMAD SHAH	12-JUL-70	ISLAMABAD
11	GUL KHAN	ASHRAF KHAN	23-AUG-75	RWP
12	MOHAMMAD SUB	GUL HANAN	15-JAN-60	KARAK
13	ASIF SHAH	AMIR AHMAD	18-FEB-67	SAWABI
14	MUHAMMAD JAM	MUHAMMAD KAMAL	16-SEP-78	LACHI
15	ZAHIR SHAH	GUL MIYAN	19-MAR-58	BUNNU
16	SHAGUFTA BEG	ALI MARJAN	14-DEC-72	LUKY
17	ADIL MARJAN	GUL MARJAN	08-NOV-85	ABBOT ABAD
18	SHADNUM	SHAMS UR REHMAN	13-MAR-64	KOHAT
19	ALLAH BAKHSH	KHAN HALOOK	16-MAR-55	ATTOCK
20	WALI SARDAR	ALI SARDAR	01-AUG-02	KARLE
21	SHARBAZ KHAN	BALQVAZ KHAN	23-JUL-90	KDA
22	ASLAN	KAMAL	12-JAN-70	PESHAWAR
23	ALI	WALI	20-DEC-01	RWP
24	NAWAZ KHAN	ASGHAR KHAN	02-JAN-01	BUNNU
25	GUL JANA	SADAT KHAN	23-AUG-70	KOHAT
26	GUL NEERA	ALI DAD KHAN	12-APR-70	AWAZI BANDA

Working Count: 10

Start | new2 - Microsoft | Developer/2000 | Reports Server | PATIENTS: P... | 12:31 PM

REPORTS

Developer/2000 Forms Runtime for Windows 95 / NT [WINDOW]

File Edit Window Help

Prev **Next** First Last Page: 1 Print Mail Close New

DETAIL OF MEDICINES

Med Id	Company	Name	U Price
10	WYETH	WYMOX CAP 500 MG	60
11	WYETH	WYMOX SYP 120 ML	38
12	PARKE-DAVIS	PONSTAN-TAB 250 MG	10
13	GLAXO WELLCOME	ACTIFED-P TAB 400 MG	14
14	BAYER PAKISTAN	INCIDAL TAB 50 MG	10
15	S-B	PANADOL TAB 400 MG	12
16	S-B	PANADOL SYP 120 ML	18
17	GLAXO WELLCOME	BETNESOL TAB 50 MG	34
18	GLAXO WELLCOME	BETNESOL SYP 100 ML	26
19	DICKITT BENCRISER	DYSPRIN TAB 250 MG	5

Working Count: 19

Start new2 - Microsoft Developer/2000 Reports Server MEDICINES: ... 12:31 PM

REPORTS

The screenshot shows a Windows application window titled "death: Previewer" with a menu bar (File, Edit, Window, Help) and a toolbar (Prev, Next, First, Last, Page: 1, Print, Mail, Close, New). The main content area displays a "DEATHS REPORT" table with the following data:

Pat Id	Name	Death Date
10	ABDULLA SHAH	15-AUG-03
11	GUL KHAN	15-AUG-03
12	HOHAMMAD SUBBHAN	15-AUG-03
13	ASIF SHAH	15-AUG-03
14	MUHAMMAD JAMAL	16 AUG 03
15	ZAHIR SHAH	20-AUG-03
16	SHAGUFTA BEGUM	20-AUG-03
17	ADIL NARJAN	20-AUG-03
18	SHAENUM	20-AUG-03

The taskbar at the bottom shows the Start button, several icons, and the following taskbar items: "new2 - Microsoft...", "Developer/2000...", "Reports Server", "death: Previ...", and the system clock showing "12:32 PM".

REPORTS

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

DISEASES: Previewer

File Edit Window Help

Prev Next First Last Page: 1 Print Mail Close New

SYMPTOMS AND RELATED DISEASE

Disease Id	Name	Symptoms
12	ASTHMA	1-Insomnia or restlessness. 2-Increasing tightness in chest. 3-Coughing.
13	ANEMIA	1-Weakness, fatigue, and a general feeling of malaise. 2-Lips look bluish, skin pasty. 3-Frequently out of breath.
10	CANSER	1-Change in size, color, shape or thickness of wart, mole or mouth sore. 2-asore that resist healing.
11	AIDS	1-Long term fatigue you can't explain 2-Swollen lymph nodes. 3-Unexplained weight loss 4- Shortness of breath. 5-Persistent cold.

Working Count: 10

Start | new2 - Microsoft ... | Developer/2000 ... | Reports Server | DISEASES: P... | 12:33 PM

REPORTS

Developer/2000 Forms Runtime for Windows 95/NT - [WINDOW0]

DOCTORS: Previewer

File Edit Window Help

Prev Next First Last Page Print Mail Close New

DOCTORS DETAIL

Dept Id	Name	Sex	Desig
10	AMIR ALI	M	ASSO. PROFESSOR
12	JAVED PARACHI	M	PROFESSOR
13	ASLAM JAN	M	ASSIST. PROFESSOR
18	SAFEEZ ULLAH	M	PROFESSOR
12	ADIL HANJAN	M	ASSO. PROFESSOR
13	SAMINA GILANI	F	ASSO. PROFESSOR
20	WAZIR ZADA	M	ASSIS. PROFESSOR
13	SHABNUM FERDOUS	F	ASSO. PROFESSOR
10	SHAH ALAM	M	PROFESSOR
12	GUL ZAHAN	M	ASSO. PROFESSOR

Working Count: 0

Start new2 - Microsoft Developer/2000 Reports Server DOCTORS: P... 12:34 PM

REPORTS

The screenshot shows a Windows 95/NT window titled "WARDS: Previewer". The window has a menu bar with "File", "Edit", "Window", and "Help". Below the menu bar is a toolbar with buttons for "Print", "Mail", "Close", and "New". The main content area displays a table titled "HOSPITAL WARDS". The table has three columns: "WARD ID", "Name", and "NO. OF BEDS". The data in the table is as follows:

WARD ID	Name	NO. OF BEDS
10	MEDICAL_1	30
11	MEDICAL-2	30
12	ENT-1	20
13	ENT-2	14
14	EYE-1	30
15	EYE-2	30
16	CARDIOLOGY-1	20
17	CARDIOLOGY-2	20
18	ORTHOPEADIC-1	30
19	ORTHOPEADIC-2	30
20	UROLOGY-1	20
21	UROLOGY-2	20
22	GYNEA-1	20
23	GYNEA-2	20

The window also shows a "Working Count: 0" label in the bottom left corner. The taskbar at the bottom of the screen displays the Start button, several open applications including "new2 - Microsoft...", "Developer/2000...", "Reports Server", and "WARDS: Pre...", and the system clock showing "12:34 PM".

REPORTS

Developer/2000 Forms Runtime for Windows 95/NT - (WINDOW0)

CHECKUPS: Previewer

File Edit Window Help

Print Mail Close New

Page: []

CHECKUP HEADS

Checkup ID	Name	Charges
10	ULTRASOUND	300
11	ECC	150
12	BONE SCANNING	500
13	ENDOSCOPY	1000
14	MRI	5000
15	CT SCAN	1800
16	EEG	400
17	Y DAY	Art

Working Count: 0

Start | new2 - Microsoft | Developer/2000 | Reports Server | CHECKUPS: ... | 12:34 PM



REPORTS

TEST HEADS: Preview

Test ID	Name	Charges
10	ACID PHOSPHA TASE	150
11	ALBUMIN	80
12	AMYLASE	150
13	ALK PHO SPHATAS E	100

Working Count: 0

Start | new2 - Microsoft... | Developer/2000... | Reports Server | TEST_HEAD... | 12:35 PM

REPORTS

Developer/2000 Forms Runtime for Windows 95/NT - (WINDOW0)

TEST HEADS: Previewer

File Edit Window Help

Next First Last Page: 1 Print Mail Close New

Test ID	Name	Charge
10	ACID PHOSPHA TASE	150
11	ALBUMIN	80
12	AMYLASE	150
13	ALK PHO SPHATAS E	100

Working
Count: 0

Start new2 - Microsoft Developer/2000 Reports Server TEST_HEAD... 12:35 PM

REPORTS

Developer/2000 Forms Runtime for Windows 95 / NT [WIND(WO)]

H DEPTS: Previewer

File Edit Window Help

Print Mail Close New

HOSPITAL DEPARTMENTS

Dept-Id	Name
10	RADIOLOGY
11	ENT
12	MEDICAL
13	GYNALOGY
14	PTHALOGY
15	EYE
16	CARDIOLOGY
17	UROLOGY
18	OSTHOEDENTS

Working Count: 0

Start new2 - Microsoft ... Developer/2000 ... Reports Server H_DEPTS: Pr... 12:35 PM