**PROJECT REPORT ON**

* **HOSPITAL MANAGEMENT SYSTEM**
* **Project start date:**
* **Project end date:**
* **Submission date:**

UNDER THE SUPERVISION OF: SUBMITTED BY:

Sir Ashwini Kumar(B.Tech) Pradumn Kumar

Acknowledgement

This Project has provided me a lot of knowledge and has also helped me polish my skills to implement the textual knowledge .But, this would not have been possible without proper guidance and support. So, I take this opportunity to thank all those who have helped me throughout the process of making the project report.

First of all, I would like to thank the almighty God for his seamless blessings which turned this project into reality.

I would also like to thank the whole family of “NIIT, BHAGALPUR” for their help and support throughout the course. In this context, my sincere thanks goes to ‘Sir Ashwini Kumar’, who gave me the opportunity to work on this project. At last but not the least, I would like to acknowledge the contribution of all the concerned persons, who helped me in the way of the completion of this project.

Pradumn Kumar

Preface

The entitled project “HOTEL MANAGEMENT SYSTEM” has been made keeping in mind, all the aspects of the “LIFELINE HOSPITAL”. By all aspects I mean, it will be capable of performing all the necessary functionalities that are done in any hospital. It includes for example separate sections for, registration of the patient along with his medical history, storing the details of doctors associated with this hospital, the Medical Store functionalities, Drug and Treatment record maintenance and so on. Although these works can be done manually too but, it consumes a lot of time in maintaining the records on paper, which in another way is not very eco-friendly. Another feature of this software is the easy to use interface. This makes sure that even a layman can operate this software.

Apart from being able to perform all the basic functionalities related to a hospital, this software is still in its basic version. Further releases might include a section for storing the details of the all the staff members working in LIFELINE. Improvements in the Billing and Equipment Maintenance section can also be expected.

Pradumn Kumar

Software Analysis

This software has the use of it in management of all the databases related to the “LIFELINE HOSPITAL”. This software is secured by a one-step security methodology as per which the user has to enter the Username and Password to gain access into this software. An authenticated login will give the user access to the Home Page (main menu).

The Home Page consists of the main menu which gives the user the following options-

1. Staff Registration

It gives the option to store the details of the staff members associated with LIFELINE. One can also delete, modify and view staff details.

B>Patient Registration

It gives the option to insert the details of new patients including their medical history, so that it can be used as a help in proper treatment of the patient. One can also delete, modify and view patient records.

C>Drugs and Treatment

It stores the record of the treatment details of all the patients

along with the respective drugs prescribed to each one of them. It can also be used to create bill of any particular operational id.

D>Medical Store

It has been provided for managing the medical store of the hospital. It can be used to store record of all the drug related transactions.

E>Equipment Management

It shows the status of all the equipment in the hospital. One can also retrieve the list of required apparatus.

F>Payroll Management

This section is for keeping record of the salary of staff members. It has been designed for viewing the payment status of the staffs.

Hardware and Software Requirements

* Hardware

Ram -2GB (at least)

Processor – Intel CORETMi5

* Operating System

Microsoft Windows 8.1

* Software

NetBeans IDE 5.5

Microsoft SQL Server 2005

Source Code

Creating Login Page

package lifeline

/ \* @author PRADUMN KUMAR\*/

**import java.io.\*;**

**public class LoginDet**

**{**

**public static void main(String[] argsa)**

**{**

**try**

**{**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**System.out.println("ENTER LOGIN DETAILS: ");**

**System.out.println(" USERNAME : ");**

**String userName=br.readLine();**

**System.out.println(" PASSWORD: ");**

**String pass=br.readLine();**

**if(userName.equals("admin") && pass.equals("password@123"))**

**{**

**System.out.println("\t\t....LOGGING IN.... ");**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**else**

**{**

**System.out.println(" INVALID DETAILS!....PLEASE TRY AGAIN ");**

**}**

**}**

**catch(IOException io){**

**System.out.println("ERROR: "+ io);**

**} catch(Exception e){**

**System.out.println("ERROR: "+ e);**

**}**

**}**

**}**

Creating Home Page

**package lifeline;**

**import java.io.\*;**

**import java.sql.\*;**

**public class MainMenu**

**{**

**public void displayMainMenu()**

**{**

**try**

**{**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**System.out.println(" \*\*\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*\*\* ");**

**System.out.println("PLEASE CHOOSE AN OPTION : ");**

**System.out.println("PRESS 1 FOR Staff Management \n" +**

**"PRESS 2 FOR Patient Registration\n" +**

**"PRESS 3 FOR Drug & Billing\n" +**

**"PRESS 4 FOR Medical Store\n" +**

**"PRESS 5 FOR Eqipment Management\n" +**

**"PRESS 6 FOR Payroll Management\n" +**

**"PRESS 7 FOR Exit");**

**int choice;**

**choice=Integer.parseInt(br.readLine());**

**if(choice==1)**

**{**

**StaffDetails sd=new StaffDetails();**

**sd.displayStaffMenu();**

**}**

**else if(choice==2)**

**{**

**PatReg pr=new PatReg();**

**pr.displayPatRegMenu();**

**}**

**else if(choice==3)**

**{**

**DrugAndTrtmt dt=new DrugAndTrtmt();**

**dt.displayTrtmtMenu();**

**}**

**else if(choice==4)**

**{**

**MedicalStore ms=new MedicalStore();**

**ms.displayMStoreMenu();**

**}**

**else if(choice==5)**

**{**

**EquipMaintainence em=new EquipMaintainence();**

**em.displayEqupMenu();**

**}**

**else if(choice==6)**

**{**

**PayrollMang pm=new PayrollMang();**

**pm.displayPayMenu();**

**}**

**else if(choice==7)**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**else**

**{**

**System.out.println("INVALID CHOICE! PLEASE TRY AGAIN.... ");**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("INVALID INPUT:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**}**

**}**

Staff Details

**package lifeline;**

**import java.io.\*;**

**import java.sql.\*;**

**import java.util.Scanner;**

**public class StaffDetails**

**{**

**static char SCh;**

**String DName,DAddress,Speciality;**

**int DocId;**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Scanner sc=new Scanner(System.in);**

**public void displayStaffMenu()**

**{**

**StaffDetails sd=new StaffDetails();**

**try**

**{**

**System.out.println("----YOU ARE CURRENTLY IN STAFF MANAGEMENT SECTION-----");**

**System.out.println("PRESS 1 TO Add a Staff\n" +**

**"PRESS 2 TO View All Staff Members\n" +**

**"PRESS 3 TO Remove a Staff\n" +**

**"PRESS 4 TO Modify Existing Details\n" +**

**"PRESS 5 FOR Main Menu\n" +**

**"PRESS 6 FOR Exit");**

**int SChoice;**

**SChoice=Integer.parseInt(br.readLine());**

**if(SChoice==1)**

**sd.insertStaffDetails();**

**else if(SChoice==2)**

**sd.viewStaffDetails();**

**else if(SChoice==3)**

**sd.delStaff();**

**else if(SChoice==4)**

**sd.modifyStaffDet();**

**else if(SChoice==5)**

**{**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**else**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**finally**

**{**

**sd.displayStaffMenu();**

**}**

**}**

**public void insertStaffDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**System.out.println("\*\*\*\*FOR INSERTING DETAILS\*\*\*\*\*");**

**System.out.println("PLEASE ENTER THE FOLLOWING DETAILS ABOUT DOCTOR: ");**

**System.out.println(" ID:");**

**DocId=Integer.parseInt(br.readLine());**

**System.out.println(" NAME:");**

**DName=(br.readLine());**

**System.out.println("ADDRESS:");**

**DAddress=br.readLine();**

**System.out.println("SPECIALITY:");**

**Speciality=br.readLine();**

**PreparedStatement stat=con.prepareStatement("INSERT INTO DOCTOR VALUES(?,?,?,?)");**

**stat.setInt(1,DocId);**

**stat.setString(2,DName);**

**stat.setString(3,DAddress);**

**stat.setString(4,Speciality);**

**stat.executeUpdate();**

**con.close();**

**stat.close();**

**System.out.println("RECORD SAVED");**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**System.out.println("PRESS 'Y' FOR INSERTING NEW RECORD " +**

**"OR 'N' FOR MENU");**

**SCh=sc.next().charAt(0);**

**}**

**while(SCh=='Y');**

**}**

**public void viewStaffDetails()**

**{**

**int SCount=0;**

**try**

**{**

**String str="SELECT \*FROM DOCTOR";**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\t\_-------STAFF RECORD--------");**

**System.out.println("Doctor\_Id Name\t\t Address\t\t Speciality ");**

**while(rs.next())**

**{**

**DocId=rs.getInt("DocId");**

**DName=rs.getString("Name");**

**DAddress=rs.getString("Address");**

**Speciality=rs.getString("Speciality");**

**System.out.print(" "+DocId+"\t");**

**System.out.print(" "+DName+"\t");**

**System.out.print(DAddress+"\t");**

**System.out.print(" "+Speciality);**

**System.out.println("");**

**SCount+=1;**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**System.out.println("CURRENTLY, "+SCount+" STAFFS ARE REGISTERED WITH LIFELINE");**

**}**

**public void delStaff()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("DELETE FROM DOCTOR where DocId=?");**

**System.out.println("\*\*\*\*FOR DISCARDING DETAILS\*\*\*\*\*");**

**System.out.println("ENTER THE DOCTOR ID TO BE DELETED: ");**

**DocId=Integer.parseInt(br.readLine());**

**stat.setInt(1,DocId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD DELETED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("can't be deleted:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR DELETING MORE RECORDS " +**

**"AND 'N' FOR MENU");**

**SCh=sc.next().charAt(0);**

**}**

**while(SCh=='Y');**

**}**

**public void modifyStaffDet()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("UPDATE DOCTOR SET Name=?, Address=?,Speciality=? where DocId=?");**

**System.out.println("\*\*\*\*FOR MODIFYING DETAILS\*\*\*\*\*");**

**System.out.println("PLEASE ENTER THE DOCTOR ID: ");**

**DocId=Integer.parseInt(br.readLine());**

**System.out.println("PLEASE ENTER THE NEW NAME: ");**

**DName=br.readLine();**

**System.out.println("PLEASE ENTER ADDRESS: ");**

**DAddress=br.readLine();**

**System.out.println("PLEASE ENTER SPECIALITY: ");**

**Speciality=(br.readLine());**

**stat.setString(1,DName);**

**stat.setString(2,DAddress);**

**stat.setString(3,Speciality);**

**stat.setInt(4,DocId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("Staff Details has been modified");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Oops! Can't be modified:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR DELETING MORE RECORDS " +**

**"AND 'N' FOR MENU");**

**SCh=sc.next().charAt(0);**

**}**

**while(SCh=='Y');**

**}**

**}**

SQL Code

**create table DOCTOR(DocId int PRIMARY KEY,Name varchar(50),Address varchar(50),Speciality varchar(70))**

**select \*from DOCTOR**

Patient Registration

**package lifeline;**

**import java.io.\*;**

**import java.sql.\*;**

**import java.util.Scanner;**

**public class PatReg**

**{**

**char PrCh;**

**String PName,PAddress,Problem,PHistory,PreHosp,PreDoc;**

**int PDocId,PatId;**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Scanner sc=new Scanner(System.in);**

**public void displayPatRegMenu()**

**{**

**try {**

**System.out.println("----YOU ARE CURRENTLY IN PATIENT REGISTRATION SECTION---");**

**System.out.println("PLEASE ENTER YOUR CHOICE : ");**

**System.out.println("PRESS 1 TO Add a Patient \n" +**

**"PRESS 2 FOR Modifying Existing Details\n" +**

**"PRESS 3 TO Discharge a Patient\n" +**

**"PRESS 4 TO View Registered Patient Records\n" +**

**"PRESS 5 FOR Main Menu\n" +**

**"PRESS 6 FOR Exit");**

**int Pchoice;**

**Pchoice=Integer.parseInt(br.readLine());**

**PatReg pg=new PatReg();**

**if(Pchoice==1)**

**pg.insertPatDetails();**

**else if(Pchoice==2)**

**pg.modifyPatRecord();**

**else if(Pchoice==3)**

**pg.deletePatRecord();**

**else if(Pchoice==4)**

**pg.viewPatRecord();**

**else if(Pchoice==5)**

**{**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**else**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**finally**

**{**

**PatReg pr=new PatReg();**

**pr.displayPatRegMenu();**

**}**

**}**

**public void deletePatRecord()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver”);**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," “); PreparedStatement stat=con.prepareStatement("DELETE FROM PATIENT\_DETAILS**

**where PatId=?");**

**System.out.println("\*\*\*\*\*\*\*FOR DISCHARGING A PATIENT\*\*\*\*\*\*\*");**

**System.out.println("ENTER THE PATIENT ID TO BE DELETED: ");**

**PatId=Integer.parseInt(br.readLine());**

**stat.setInt(1,PatId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD DELETED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("can't be deleted:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR DISCHARGING MORE PATIENTS " +**

**"AND 'N' FOR MENU");**

**PrCh=sc.next().charAt(0);**

**}**

**while(PrCh=='Y');**

**}**

**public void modifyPatRecord()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("UPDATE PATIENT\_DETAILS SET Address=?,Issue=?,DocId=? where PatId=?");**

**System.out.println("\*\*\*\*\*\*\*FOR DETAILS MODIFICATION\*\*\*\*\*\*\*");**

**System.out.println("PLEASE ENTER THE PATIENT ID: ");**

**PatId=Integer.parseInt(br.readLine());**

**System.out.println("PLEASE ENTER THE NEW ADDRESS: ");**

**PAddress=br.readLine();**

**System.out.println("PLEASE ENTER THE ISSUE: ");**

**Problem=br.readLine();**

**System.out.println("PLEASE ENTER THE NEW DOCTOR ID: ");**

**PDocId=Integer.parseInt(br.readLine());**

**stat.setString(1,PAddress);**

**stat.setString(2,Problem);**

**stat.setInt(3,PDocId);**

**stat.setInt(4,PatId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("Patient Details has been modified");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Oops! Can't be modified:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR MODIFYING ANOTHER PATIENT DETAILS " +**

**"AND 'N' FOR MENU");**

**PrCh=sc.next().charAt(0);**

**}**

**while(PrCh=='Y');**

**}**

**public void insertPatDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**System.out.println("\*\*\*\*\*\*\*FOR PATIENT REGISTRATION\*\*\*\*\*\*\*");**

**System.out.println("PLEASE ENTER THE FOLLOWING DETAILS ABOUT PATIENT ");**

**System.out.println(" ID:");**

**PatId=Integer.parseInt(br.readLine());**

**System.out.println("CONCERNED DOCTOR'S ID:");**

**PDocId=Integer.parseInt(br.readLine());**

**System.out.println("NAME:");**

**PName=br.readLine();**

**System.out.println("ADDRESS:");**

**PAddress=br.readLine();**

**System.out.println("ISSUE:");**

**Problem=br.readLine();**

**System.out.println("PATIENT'S MEDICAL HISTORY:");**

**PHistory=br.readLine();**

**System.out.println("PREVIOUS HOSPITAL:");**

**PreHosp=br.readLine();**

**System.out.println("PREVIOUS DOCTOR:");**

**PreDoc=br.readLine();**

**PreparedStatement stat=con.prepareStatement("INSERT INTO PATIENT\_DETAILS VALUES(?,?,?,?,?,?,?,?)");**

**stat.setInt(1,PatId);**

**stat.setString(3,PName);**

**stat.setString(4,PAddress);**

**stat.setString(5,PHistory);**

**stat.setString(6,PreHosp);**

**stat.setString(8,PreDoc);**

**stat.setInt(2,PDocId);**

**stat.setString(7,Problem);**

**stat.executeUpdate();**

**con.close();**

**stat.close();**

**System.out.println("RECORD SAVED");**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**System.out.println("PRESS 'Y' FOR ADDING MORE PATIENT DETAILS " +**

**"AND 'N' FOR MENU");**

**PrCh=sc.next().charAt(0);**

**}**

**while(PrCh=='Y');**

**}**

**public void viewPatRecord()**

**{**

**try {**

**String str="SELECT \*FROM PATIENT\_DETAILS";**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\t\_-------PATIENT REGISTRATION RECORD--------") System.out.println("Patient\_Id Name\t Address \t Issue \t Medical\_history\t Previous\_hospital\t Previous\_Doc\t Doctor\_Id ");**

**while(rs.next())**

**{**

**PatId=rs.getInt("PatId");**

**PDocId=rs.getInt("DocId");**

**PName=rs.getString("Name");**

**PAddress=rs.getString("Address");**

**PHistory=rs.getString("PatHistory");**

**PreHosp=rs.getString("PHosp");**

**Problem=rs.getString("Issue");**

**PreDoc=rs.getString("PDoc");**

**System.out.print(PatId+"\t");**

**System.out.print(PName+"\t");**

**System.out.print(Address+"\t");**

**System.out.print(Problem+"\t");**

**System.out.print(PHistory+"\t");**

**System.out.print(PreHosp+"\t");**

**System.out.print(PreDoc);**

**System.out.print(" "+PDocId);**

**System.out.println("");**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**}**

**}**

SQL Code

**create table *PATIENT\_DETAILS*(PatId int PRIMARY KEY,DocId int,Name varchar(30),Address varchar(50),PatHistory varchar(30),PHosp varchar(30),Issue varchar(30),PDoc varchar(30))**

**select \*from *PATIENT\_DETAILS***

Medical Store

**import java.io.\*;**

**import java.sql.\*;**

**import java.util.Scanner;**

**public class MedicalStore**

**{**

**String DgName,DgExpDate;;**

**double DgPriceUnit; int DgQuan;**

**char DgCh;**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**public void displayMStoreMenu()**

**{**

**MedicalStore ms=new MedicalStore();**

**try**

**{**

**System.out.println("----YOU ARE CURRENTLY IN MEDICAL STORE SECTION-----");**

**System.out.println("PRESS 1 TO Add a drug\n" +**

**"PRESS 2 TO View out of stock drugs\n" +**

**"PRESS 3 TO Discard a drug\n" +**

**"PRESS 4 TO Modify Drug Details\n" +**

**"PRESS 5 FOR Main Menu\n" +**

**"PRESS 6 FOR Exit");**

**int MsChoice;**

**MsChoice=Integer.parseInt(br.readLine());**

**if(MsChoice==1)**

**ms.insertDrug();**

**else if(MsChoice==2)**

**ms.lowStockDrugs();**

**else if(MsChoice==3)**

**ms.discardDrug();**

**else if(MsChoice==4)**

**ms.modifyDrugDetails();**

**else if(MsChoice==5)**

**{**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**else**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**finally**

**{**

**ms.displayMStoreMenu();**

**}**

**}**

**public void lowStockDrugs()**

**{**

**try**

**{**

**String str="SELECT \*FROM MStore1";**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\t\_------LOW IN STOCK DRUGS--------");**

**System.out.println("DRUG NAME\t QUANTITY PRICE(PER UNIT)");**

**while(rs.next())**

**{**

**DgName=rs.getString("Drug\_Name");**

**DgPriceUnit=rs.getDouble("PricePerUnit");**

**DgQuan=rs.getInt("Quantity");**

**if(DgQuan<=5)**

**{**

**System.out.print(DgName+"\t\t");**

**System.out.print(DgQuan+"\t");**

**System.out.print(DgPriceUnit);**

**System.out.println("");**

**}**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**}**

**public void insertDrug()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**System.out.println("ENTER THE NAME OF AVAILABLE DRUGS:");**

**DgName=br.readLine();**

**System.out.println("NO. OF UNITS AVAILABLE:");**

**DgQuan=Integer.parseInt(br.readLine());**

**System.out.println("PRICE PER UNIT: ");**

**DgPriceUnit=Double.parseDouble(br.readLine());**

**System.out.println("EXPIRY DATE:");**

**DgExpDate=br.readLine();**

**PreparedStatement stat=con.prepareStatement("INSERT INTO MStore1 VALUES(?,?,?,?)");**

**stat.setString(1,DgName);**

**stat.setInt(2,DgQuan);**

**stat.setDouble(3,DgPriceUnit);**

**stat.setString(4,DgExpDate);**

**stat.executeUpdate();**

**con.close();**

**stat.close();**

**System.out.println("RECORD SAVED");**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**System.out.println("PRESS 'Y' FOR INSERTING NEW DRUG " +**

**"AND 'N' FOR MENU");**

**Scanner sc=new Scanner(System.in);**

**DgCh=sc.next().charAt(0);**

**}**

**while(DgCh=='Y');**

**}**

**public void discardDrug()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK3","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("DELETE FROM MStore1 where Drug\_Name=?");**

**System.out.println("ENTER THE NAME OF DRUG TO BE DISCARDED: ");**

**String DgName=(br.readLine());**

**stat.setString(1,DgName);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD DELETED");**

**}**

**catch(IOException e1) {**

**System.out.println(e1);**

**}**

**catch(Exception e2) {**

**System.out.println("Can't be deleted:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR DISCARDING MORE DRUGS " +**

**"AND 'N' FOR MENU");**

**Scanner sc=new Scanner(System.in);**

**DgCh=sc.next().charAt(0);**

**}**

**while(DgCh=='Y');**

**}**

**public void modifyDrugDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement pstmt=con.prepareStatement("UPDATE MStore1 SET Quantity=? where Drug\_Name=?");**

**System.out.println("PLEASE ENTER THE NAME OF DRUG: ");**

**String InpName=(br.readLine());**

**System.out.println("PLEASE ENTER THE NO.OF UNITS DISCARDED: ");**

**int DgUnit=Integer.parseInt(br.readLine());**

**String str="SELECT \*FROM MStore1";**

**Statement stmt=con.createStatement();**

**ResultSet rs=stmt.executeQuery(str);**

**int DgQuan=0;**

**while(rs.next())**

**{**

**String SearchName=rs.getString("Drug\_Name");**

**if(SearchName.equals(InpName))**

**{**

**DgQuan=rs.getInt("Quantity");**

**}**

**}**

**int DgLeft=0;**

**DgLeft=DgQuan-DgUnit;**

**System.out.println("NO.OF UNITS LEFT ARE "+DgLeft);**

**pstmt.setInt(1,DgLeft);**

**pstmt.setString(2,InpName);**

**pstmt.executeUpdate();**

**con.close();**

**System.out.println("RECORD MODIFIED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println("ERROR: "+e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Can't be modified:"+e2);**

**}**

**Scanner sc=new Scanner(System.in);**

**DgCh=sc.next().charAt(0);**

**}**

**while(DgCh=='Y');**

**}**

**}**

SQL Code

**create table MStore1(Drug\_Name varchar(12),Quantity int,PricePerUnit money,Expiry\_Date varchar(20))**

**select \*from MStore1**

Payroll Record

**package lifeline;**

**import java.io.\*;**

**import java.sql.\*;**

**import java.util.Scanner;**

**public class PayrollMang**

**{**

**String DoP,Remark;**

**double Sal;**

**int DocId;**

**static char PCh;**

**Scanner sc=new Scanner(System.in);**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**public void displayPayMenu()**

**{**

**PayrollMang pm=new PayrollMang();**

**try**

**{**

**System.out.println("----YOU ARE CURRENTLY IN PAYROLL SECTION-----");**

**System.out.println("PRESS 1 TO Add a Record\n" +**

**"PRESS 2 TO View Records\n" +**

**"PRESS 3 TO Remove a Record\n" +**

**"PRESS 4 TO Modify Existing Details\n" +**

**"PRESS 5 FOR Main Menu\n" +**

**"PRESS 6 FOR Exit");**

**int PChoice;**

**PChoice=Integer.parseInt(br.readLine());**

**if(PChoice==1)**

**pm.insertPayDetails();**

**else if(PChoice==2)**

**pm.viewPayDetails();**

**else if(PChoice==3)**

**pm.deletePayRecord();**

**else if(PChoice==4)**

**pm.modifyPayDetails();**

**else if(PChoice==5)**

**{**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**else**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**finally**

**{**

**pm.displayPayMenu();**

**}**

**}**

**public void insertPayDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**System.out.println("\*\*\*\*\*\*\*\*\*\*FOR ADDING PAYROLL RECORD\*\*\*\*\*\*\*\*");**

**System.out.println("ENTER THE DOCTOR'S ID:");**

**DocId=Integer.parseInt(br.readLine());**

**System.out.println("AMOUNT TO BE PAID:");**

**Sal=Double.parseDouble(br.readLine());**

**System.out.println("DATE OF PAYMENT: ");**

**DoP=(br.readLine());**

**System.out.println("REMARK:");**

**Remark=br.readLine();**

**PreparedStatement stat=con.prepareStatement("INSERT INTO PAYROLL1 VALUES(?,?,?,?)");**

**stat.setInt(1,DocId);**

**stat.setDouble(2,Sal);**

**stat.setString(3,DoP);**

**stat.setString(4,Remark);**

**stat.executeUpdate();**

**con.close();**

**stat.close();**

**System.out.println("RECORD SAVED");**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**System.out.println("PRESS 'Y' FOR INSERTING NEW RECORD " +**

**"AND 'N' FOR MENU");**

**PCh=sc.next().charAt(0);**

**}**

**while(PCh=='Y');**

**}**

**public void deletePayRecord()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connectioncon=DriverManager.getConnection("jdbc:odbc:PK3","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("DELETE FROM PAYROLL1 where DocId=?");**

**System.out.println("\*\*\*\*\*\*\*FOR REMOVING PAYROLL RECORD\*\*\*\*\*\*\*");**

**System.out.println("ENTER THE DOCTOR'S ID TO BE DELETED: ");**

**DocId=Integer.parseInt(br.readLine());**

**stat.setInt(1,DocId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD DELETED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Can't be deleted:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR DELETING MORE RECORDS " +**

**"AND 'N' FOR MENU");**

**PCh=sc.next().charAt(0);**

**}**

**while(PCh=='Y');**

**}**

**public void modifyPayDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("UPDATE PAYROLL1 SET SALARY=?, DATEofPAY=?,REMARKS=? where DocId=?");**

**System.out.println("\*\*\*\*\*\*\*\*\*\*FOR UPDATING PAYROLL RECORD\*\*\*\*\*\*\*\*");**

**System.out.println("PLEASE ENTER THE DOCTOR'S ID: ");**

**DocId=Integer.parseInt(br.readLine());**

**System.out.println("PLEASE ENTER THE NEW SALARY: ");**

**Sal=Double.parseDouble(br.readLine());**

**System.out.println("PLEASE ENTER THE NEW PAYMENT DATE: ");**

**DoP=br.readLine();**

**System.out.println("PLEASE UPDATE THE REMARK: ");**

**Remark=br.readLine();**

**stat.setInt(4,DocId);**

**stat.setString(3,Remark);**

**stat.setString(2,DoP);**

**stat.setDouble(1,Sal);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD MODIFIED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Can't be Modified:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR MODIFYING MORE RECORDS " +**

**"AND 'N' FOR MENU");**

**PCh=sc.next().charAt(0);**

**}**

**while(PCh=='Y');**

**}**

**public void viewPayDetails()**

**{**

**try**

**{**

**String str="SELECT \*FROM PAYROLL1";**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\t\_------PAYROLL RECORD--------");**

**System.out.println("DOCTOR\_ID SALARY\t PAYMENT\_DATE REMARKS\t");**

**while(rs.next())**

**{**

**DocId=rs.getInt("DocId");**

**Sal=rs.getDouble("SALARY");**

**DoP=rs.getString("DATEofPAY");**

**Remark=rs.getString("REMARKS");**

**System.out.print(DocId+"\t ");**

**System.out.print(Sal+"\t");**

**System.out.print(DoP);**

**System.out.print(Remark);**

**System.out.println("");**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**}**

**}**

SQL Code

**create table PAYROLL1(DocId int PRIMARY KEY,SALARY money,DATEofPAY varchar(20),REMARKS varchar(10))**

**select \*from PAYROLL1**

Equipment Maintainence

**package lifeline;**

**import java.io.\*;**

**import java.sql.\*;**

**import java.util.Scanner;**

**public class EquipMaintainence**

**{**

**static char ECh;**

**String EName,ReqEqup;**

**double EQuan,EPriceUnit,ETotalCost;**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Scanner sc=new Scanner(System.in);**

**public void displayEqupMenu()**

**{**

**EquipMaintainence em=new EquipMaintainence();**

**try {**

**System.out.println("----EQUIPMENT MAINTAINENCE SECTION-----");**

**System.out.println("PRESS 1 TO Add an Equipment\n" +**

**"PRESS 2 TO View Equipment Record\n" +**

**"PRESS 3 TO Discard an Equipment\n" +**

**"PRESS 4 TO Modify Equipment Details\n" +**

**"PRESS 5 FOR Main Menu\n" +**

**"PRESS 6 FOR Exit");**

**int EChoice;**

**EChoice=Integer.parseInt(br.readLine());**

**if(EChoice==1)**

**em.insertEqupDetails();**

**else if(EChoice==2)**

**em.viewEqupDetails();**

**else if(EChoice==3)**

**em.deleteEqupt();**

**else if(EChoice==4)**

**em.modifyEqupDetails();**

**else if(EChoice==5)**

**{**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu(); }**

**else**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**finally**

**{**

**em.displayEqupMenu();**

**}**

**}**

**public void insertEqupDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**System.out.println("\*\*\*\*\*\*\*\*\*\*FOR ADDING EQUIPMENTS\*\*\*\*\*\*\*\*");**

**System.out.println("ENTER THE NAME OF AVAILABLE APPARATUS:");**

**EName=br.readLine();**

**System.out.println("NO. OF UNITS AVAILABLE:");**

**EQuan=Double.parseDouble(br.readLine());**

**System.out.println("PRICE PER UNIT: ");**

**EPriceUnit=Double.parseDouble(br.readLine());**

**ETotalCost=EQuan\*EPriceUnit;**

**System.out.println("REQUIREMENT:");**

**ReqEqup=br.readLine();**

**PreparedStatement stat=con.prepareStatement("INSERT INTO EQUIPMENT\_MAINTN VALUES(?,?,?,?,?)");**

**stat.setString(1,EName);**

**stat.setDouble(2,EQuan);**

**stat.setString(5,ReqEqup);**

**stat.setDouble(3,EPriceUnit);**

**stat.setDouble(4,ETotalCost);**

**stat.executeUpdate();**

**con.close();**

**stat.close();**

**System.out.println("RECORD SAVED");**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**System.out.println("PRESS 'Y' FOR INSERTING NEW RECORD " +**

**"AND 'N' FOR MENU");**

**ECh=sc.next().charAt(0);**

**}**

**while(ECh=='Y');**

**}**

**public void deleteEqupt()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK3","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("DELETE FROM EQUIPMENT\_MAINTN where AvailableEquipments=?");**

**System.out.println("\*\*\*\*\*\*\*\*\*\*FOR DISCARDING EQUIPMENTS\*\*\*\*\*\*\*\*");**

**System.out.println("ENTER THE NAME OF EQUIPMENT TO BE DELETED: ");**

**EName=(br.readLine());**

**stat.setString(1,EName);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD DELETED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Can't be deleted:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR DELETING MORE RECORDS " +**

**"AND 'N' FOR MENU");**

**ECh=sc.next().charAt(0);**

**}**

**while(ECh=='Y');**

**}**

**int EQuan1, ELeft, Eunit;**

**public void modifyEqupDetails()**

**{**

**do {**

**try**

**{**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("UPDATE EQUIPMENT\_MAINTN SET Quantity=? where AvailableEquipments=?");**

**String str="SELECT \*FROM EQUIPMENT\_MAINTN";**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con1=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat1=con1.createStatement();**

**ResultSet rs1=stat1.executeQuery(str);**

**System.out.println("\*\*\*\*\*\*\*\*FOR MODIFYING EQUIPMENT DETAILS\*\*\*\*\*\*\*\*");**

**System.out.println("PLEASE ENTER THE NAME OF EQUIPMENT : ");**

**String EName2=(br.readLine());**

**System.out.println("PLEASE ENTER THE NO.OF UNITS DISCARDED: ");**

**Eunit=Integer.parseInt(br.readLine());**

**while(rs1.next())**

**{**

**String EName1=rs1.getString("AvailableEquipments");**

**System.out.println(EName1);**

**if(EName2.equalsIgnoreCase(EName1))**

**{**

**int EQuan1=rs1.getInt("Quantity");**

**int ELeft=EQuan1-Eunit;**

**System.out.println("NO.OF UNITS LEFT ARE "+ELeft);**

**}**

**}**

**con1.close();**

**stat.setInt(1,ELeft);**

**stat.setString(2,EName);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD MODIFIED");**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Can't be modified:"+e2);**

**}**

**System.out.println("PRESS 'Y' FOR MODIFYING MORE RECORDS " +**

**"AND 'N' FOR MENU");**

**ECh=sc.next().charAt(0);**

**}**

**while(ECh=='Y');**

**}**

**public void viewEqupDetails()**

**{**

**try {**

**String str="SELECT \*FROM EQUIPMENT\_MAINTN";**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\t\_------EQUIPMENT RECORD--------");**

**System.out.println("AVAILABLE EQUIPMENTS\t QUANTITY\t PRICE\_PER\_UNIT\t TOTAL\_PRICE REQUIRED APPARATUS");**

**while(rs.next())**

**{**

**EName=rs.getString("AvailableEquipments");**

**EQuan=rs.getInt("Quantity");**

**EPriceUnit=rs.getDouble("PricePerUnit");**

**ETotalCost=rs.getDouble("TotalCost");**

**ReqEqup=rs.getString("RequiredAppt");**

**System.out.print(EName+"\t");**

**System.out.print(EQuan+"\t\t");**

**System.out.print(EPriceUnit+"\t\t");**

**System.out.print(ETotalCost+"\t\t");**

**System.out.print(ReqEqup);**

**System.out.println("");**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**}**

**}**

SQL Code

**create table EQUIPMENT\_MAINTN(AvailableEquipments varchar(20),Quantity int, PricePerUnit money,TotalCost money,RequiredAppt varchar(20))**

**select \*from EQUIPMENT\_MAINTN**

**Drug and Treatment**

**package lifeline;**

**import java.io.\*;**

**import java.sql.\*;**

**import java.util.Scanner;**

**public class DrugAndTrtmt**

**{**

**public void displayTrtmtMenu()**

**{**

**DrugAndTrtmt dt=new DrugAndTrtmt();**

**try**

**{**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**System.out.println("----YOU ARE CURRENTLY IN DRUG & TREATMENT SECTION--");**

**System.out.println("PRESS 1 TO Add a Treatment Record/n"+**

**"PRESS 2 TO View Treatment Records\n"+**

**"PRESS 3 TO Generate Bill\n" +**

**"PRESS 4 TO Delete a Record\n" +**

**"PRESS 5 TO Modify Treatment Details\n" +**

**"PRESS 6 FOR Main Menu\n" +**

**"PRESS 7 FOR Exit");**

**int DtChoice;**

**DtChoice=Integer.parseInt(br.readLine());**

**if(DtChoice==1)**

**dt.insertTrtmtDet();**

**else if(DtChoice==2)**

**dt.viewTrtmtDetails();**

**else if(DtChoice==3)**

**dt.generateBill();**

**else if(DtChoice==4)**

**dt.delTrtmtDetails();**

**else if(DtChoice==5)**

**dt.modifyTetDetails();**

**else if(DtChoice==6)**

**{**

**MainMenu mm=new MainMenu();**

**mm.displayMainMenu();**

**}**

**else**

**{**

**System.out.println("\_\_\_\_\_\_CLOSING THE SOFTWARE\_\_\_\_\_\_\_");**

**System.exit(0);**

**}**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**finally**

**{**

**dt.displayTrtmtMenu();**

**}**

**}**

**public void insertTrtmtDet()**

**{**

**try**

**{**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**String TDetails,TDrugs;**

**int TDocId,TPatId,OperId;**

**System.out.println("PLEASE ENTER THE FOLLOWING DETAILS : ");**

**System.out.println("OPERATIONAL ID:");**

**OperId=Integer.parseInt(br.readLine());**

**System.out.println("PATIENT ID:");**

**TPatId=Integer.parseInt(br.readLine());**

**System.out.println("CONCERNED DOCTOR'S ID:");**

**TDocId=Integer.parseInt(br.readLine());**

**System.out.println("TREATMENT DETAILS: ");**

**TDetails=br.readLine();**

**System.out.println("DRUGS RECOMMENDED: \t /\*USE COMMA SEPARATED ENTRIES\*/");**

**TDrugs=br.readLine();**

**PreparedStatement stat=con.prepareStatement("INSERT INTO TREATMENT VALUES(?,?,?,?,?)");**

**stat.setInt(1,OperId);**

**stat.setInt(2,TPatId);**

**stat.setInt(3,TDocId);**

**stat.setString(4,TDetails);**

**stat.setString(5,TDrugs);**

**stat.executeUpdate();**

**con.close();**

**stat.close();**

**System.out.println("RECORD SAVED");**

**}**

**catch(IOException io)**

**{**

**System.out.println("ERROR:"+io);**

**}**

**catch(Exception e)**

**{**

**System.out.println("ERROR:"+e);**

**}**

**}**

**public void delTrtmtDetails()**

**{**

**try**

**{**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connectioncon=DriverManager.getConnection("jdbc:odbc:PK2","administrator",” ");**

**PreparedStatement stat=con.prepareStatement("DELETE FROM TREATMENT where OpId=?");**

**System.out.println("ENTER THE OPERATIONAL ID TO BE DELETED: ");**

**int OpId=Integer.parseInt(br.readLine());**

**stat.setInt(1,OpId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("RECORD DELETED");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Can't be deleted:"+e2);**

**}**

**}**

**public void modifyTetDetails()**

**{**

**try**

**{**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**PreparedStatement stat=con.prepareStatement("UPDATE TREATMENT SET Treatment\_Details=?,Recommended\_Drugs=? where OpId=?");**

**System.out.println("PLEASE ENTER THE OPERATIONAL ID TO BE MODIFIED: ");**

**int OpId=Integer.parseInt(br.readLine());**

**System.out.println("PLEASE ENTER THE NEW TREATMENT DETAILS: ");**

**String TDetails=br.readLine();**

**System.out.println("PLEASE ENTER THE REVISED DRUG PRESCRIPTION: ");**

**String TDrugs=(br.readLine());**

**stat.setString(1,TDetails);**

**stat.setString(2,TDrugs);**

**stat.setInt(3,OpId);**

**stat.executeUpdate();**

**con.close();**

**System.out.println("Treatment Details have been successfully modified");**

**}**

**catch(IOException e1)**

**{**

**System.out.println(e1);**

**}**

**catch(Exception e2)**

**{**

**System.out.println("Oops! Can't be modified:"+e2);**

**}**

**}**

**public void viewTrtmtDetails()**

**{**

**try**

**{**

**String str="SELECT \*FROM TREATMENT";**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\t\_-------TREATMENT RECORD--------");**

**System.out.println("Operational\_Id \t Patient\_id \t Doctor\_Id \t Treatment\_details \t Prescribed\_Drugs");**

**while(rs.next())**

**{**

**int OpId=rs.getInt("OpId");**

**int TPatId=rs.getInt("Patient\_Id");**

**int TDocId=rs.getInt("Doctor\_Id");**

**String TDetails=rs.getString("Treatment\_Details");**

**String TDrugs=rs.getString("Recommended\_Drugs");**

**System.out.print(OpId+"\t\t");**

**System.out.print(TPatId+"\t\t");**

**System.out.print(TDocId+"\t\t");**

**System.out.print(TDetails);**

**System.out.print(TDrugs);**

**System.out.println("");**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**}**

**public void generateBill()**

**{**

**String TDrugs="";**

**try**

**{**

**String str="SELECT \*FROM TREATMENT";**

**BufferedReader br=new BufferedReader(new InputStreamReader(System.in));**

**Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");**

**Connection con=DriverManager.getConnection("jdbc:odbc:PK2","administrator"," ");**

**Statement stat=con.createStatement();**

**ResultSet rs=stat.executeQuery(str);**

**System.out.println("\*\*\*\*\*\*\*BILL\*\*\*\*\*");**

**System.out.println("ENTER THE OPERATIONAL ID WHOSE BILL IS TO BE CREATED:");**

**int InpOpId=Integer.parseInt(br.readLine());**

**System.out.println("--------LIFELINE----------");**

**double PPu;**

**double Total=0.0;**

**while(rs.next())**

**{**

**int OpId=rs.getInt("OpId");**

**if(InpOpId==OpId)**

**{**

**int TPatId=rs.getInt("Patient\_Id");**

**String TDetails=rs.getString("Treatment\_Details");**

**TDrugs=rs.getString("Recommended\_Drugs");**

**System.out.println("Operational\_Id ="+InpOpId+"\n" +**

**"Patient\_id ="+TPatId+"\n" +**

**"Treatment\_details ="+TDetails);**

**System.out.print("Prescribed\_Drugs= ");**

**String[] array=TDrugs.split(",");**

**String DgName;**

**for(int i=0;i<array.length;i++)**

**{**

**System.out.print(array[i]+"\t");**

**}**

**System.out.println();**

**}**

**}**

**con.close();**

**}**

**catch(Exception e2)**

**{**

**System.out.println("ERROR"+e2);**

**}**

**}**

**}**

SQL Code

**create table TREATMENT(OpId int PRIMARY KEY,Patient\_Id int,Doctor\_Id int,Treatment\_Details varchar(60),Recommended\_Drugs varchar(100))**

**select \*from TREATMENT**

Conclusion

This project is based on a study of all the functionalities of various departments and the operational aspects of the “LIFELINE” hospital. Also, this project fulfils all the requirements of a long lasting software too, be it smooth functioning or the easy to use feature.

The objective of this project was to study the various aspects of a hospital and develop a software as per the requirements of the hospital. Also, one needs to implement all the essential things, that needs to be followed for making a good and durable software. It also includes some features to store the records in an SQL database.

Altogether, it was a wonderful experience for me and this project has really helped me to gain a lot of knowledge about good programming skills.

Bibliography

Here I would like to mention about the sources of information in due course of completing this project report. The list of different sources are mentioned below:

* Book

Niit Courseware

* Websites

[www.wikipedia.com](http://www.wikipedia.com)

[www.stackoverflow.com](http://www.stackoverflow.com)